

caaaggcgcg gttcatgcgg ctgtggaagt tcccggattt ggagatgggc gtccagattg 960
 ccgcgctctt ggagtgaaac ggaactgaga cgtcggacac tgtcgccccg agctcgggtga 1020
 aaagcgagat ggcttttgag accgttttgt gcacgcgcgg gtctatgcc a ggcattgtca 1080
 tcccttctga gataacgcgg attttgacgc cggagaggaa tttgggggtg gggagggagg 1140
 ttagaatgct gtagtactca ggaatttggg acggcagagg cgccgcgaag gaccggtcgt 1200
 cgatattgtc gttgccggct gttgcttggg ggagcagcgc attatcgagg aggggtgcgcg 1260
 tcatggggcc cagatggtcg ttcgctgtat cacacaatat cccgtcagta aagcctcgtg 1320
 ctgcaattgc tccagagcca ggtgtaggac atactcggct cattcgatcc acatccggta 1380
 tacggcatca gtccaaatgt aggttttagc ccgtatagac cgcaccatcc agctggctac 1440
 aaactcatta gtcccatcct catggaatca gccctcatg cagttccgat tcccagcatt 1500
 gcgcaagacg gtaagacata cgaccgggac actgccccct tgatcggccc caatcgccaa 1560
 atccacatct ccattcgcaa cgagggagcc acaccactc gagctccac cgctgctata 1620
 cccgcgcgca aatgggttat gcaccgaccc cgtggcagca gaactacttg tcgccgaatg 1680
 gcacaggttc tcgcagactg ctttgccctt gaccactgcg caagctacca agacgcgcgt 1740
 cacgactgtc gcgtcagtat cctagccggg aattgccatc aacttgcttg ccagtatatc 1800
 agactcgaag gtagacgtac gggatatatat ccgctaacca tatcggttcc catgagcatt 1860
 ggcaactcct tgaccgcgat attgtccttc aggacgattg tectgccagc gagtagacc 1920
 gaggttgccg aacgggtctg gtcttgatc tcacatctcc acgcccattg gtttagtggg 1980
 ttttctccg atgttgggaa gtggatgtta tgtcggggga agcggttcctc atccaccata 2040
 gggacatagt cttctcgag acattagctt ggtgcaaaca acccgtcaa cgggagatac 2100
 ggtggcgtga cagaccagg agaccatca acgcctcagc actctcatga tacaccgcaa 2160
 gcaggcgaag gtagtcttcc ttctcgtgct ctgcaactgt gataccaga ctatccgcga 2220
 cgcgatccag cgtctcta at gtgaccgggt tggaagagtt gatgttcagg gagaagacgg 2280
 acatcgcggc gacactacta caggtaactc caggttcggg aactcttatt tcctctccat 2340
 caagttcacg agagccgttg ggccgagttg ggaaaatggg ctttttaacg attccgtacc 2400
 tgagacgtta tcaatagagt caagcgggga acggaactcc gacggacctc ctatcttgct 2460
 ccgacgcatt ggtggccgtt ggagatggta agagatatga taaggaagtg tgatatgccg 2520

ataggtgttg gagacggttg aggtaggata taagccaacc tttccttggg gttttttcgc 2580
aatttgcttc tegtgtctct tgagctctac ctatccggtg cggaggacgt cctagcacag 2640
gccaatgcc ggttctcaga aatggcccgg gcaagacggt tctcctccgc gcagacatgg 2700
acgcccttcc cgtcaaggag gagacgggtc tcccctactc cagcaccgcg acagcgaccg 2760
atcctgacgg ggtctcaagg ccgatcatgca cgcttgggac acgatatgca 2810

<210> 1758
<211> 3227
<212> DNA
<213> *Aspergillus nidulans*
<400> 1758

atggaccat catccagaaa ttgttcatgt acttagactc cttacgtatg cacagggtgg 60
gctttaaacg caatgtgcgg cgccacatgc cgaacttctt actttccatg tcttcttcac 120
acgtgacgct gggtcgcacg acgtaagccg tggtcggtag tacggacatt gggtatcact 180
gccctagcgc atactccaaa cacagggtata tctctgccgc aagttgtaag tcaatcccaa 240
atctctgatg tattattccc ttagtggggc accaatagcc gctagcagta tctacctcca 300
cgtagaactt cttcgccagt aatgggtacta gtagtaagta gtaataacag cagcaataca 360
ggtttatggt agtactatca ttagggatat actatgatta gaatattatt ttccagcact 420
gcatcagatt agaagctact ttaaattttc cgacagtgcg gttcgtcaac atccggctcc 480
atatgcgata tttggatctt tactttacta ggtacttcga tagcactgtt tgaggattcg 540
cgttgagacc gggacgcccg ggaggaatta tgagtatggg tagagagtgg tagtaatcat 600
tctgttagca tgcttattac gtacaggcag gtcatggaaa gcgccaatgg caatcatgat 660
tccatatcct aaaagagtcc ggtaactca gttgggatga ctcgatacct acgttctagt 720
tttcgcgaag agataccccg tatcatgtgc attatttcga aattcgatag aggtaaaggc 780
attgcttgaa ggggagtcta tgggtacaata gtatgaggag cctagatgaa cagcattccg 840
gctcatacgg tgacagtgcg ggtggacggt tcacttggcc gtattctcca ccgtatgtga 900
gctttccaac caagtcccaa attcatcgag acgctgattc tcacgtcat cttctgcgtc 960
gagacccttc tcagcaagat cttccagtgc agcgcgcttc tcattcgact tgcggaaccg 1020
ctcgttcca tctgagatgt atgcttcgac tgctgtgccg ccgaagaagc ggccgttcat 1080

gagctggcga tgtcagcaca cttattcaga cttccgacgg ctacagaggg gttcacgtgg 1140
gttatgtatg taccttgacg caagctctcg cggactctgg attcgagaac cggacgctga 1200
cgacgcccgc ttcttccttg tcataaagga cgacatttgt gacctctccg agttttgagc 1260
attcttcacg gatatcttcc ttgatgtcaa ggatagctgc cgggtcctcc tgtgtattgt 1320
cagctcagag caatgggggt agcagccaga gaccagtgcc ggtgcagaga tgtacctcca 1380
attcttgaag cgtgaacata tgcttcaata ttacgatttt ctcaaacttg gaattcgtat 1440
ccaccagtgc agcggggtca tcgtcatccc aatctgcgag ttgctacgc atccgtgtgt 1500
tagtatctgt tcttcaccta aaacagctga gccatactta ttcagtttct gcgttctctt 1560
aatgattttt ttcttatccc gcatgctcgt ctcgtcggc gcctcttgct ggcttttgaa 1620
agagaaatct gcaggctgca cgcgcatggg cccctgcggc ccaggcacgc ccagtctaaa 1680
gtctgaatca tccagcatct gaatcgcgag attcacggac tcgggtcgga aatagacgac 1740
tagagcttcc ccttgaatt ttccctcgtc atccgtgtac attttgatcc ggggccggcc 1800
gctgtcaatc tcctcggcga tgacgcgcga cctcgaaaag atgtctcgta tttcgtcgaa 1860
ctctgcgtcg agggggatag atgtaacgaa cacagcggtg ttgaccggtt gcttcttttg 1920
tttttgagcg tcgccctgcc catgaacgaa cgatcagcga tgcatacacg gcgataggac 1980
aaagtagttt ggcgatgtgt gcaactgacc tcctcactgc cctgtttgcg ctttttcttg 2040
agcctctgtg ctccagcctg ctcgcttcca tctactcctt caactttata ggcttcttgt 2100
tgttgcgcga gcaagtcac gtcaatctgg aggacacca caggcgcaaa agaggcgcca 2160
accagcaatc agtttcacga accacccaaa tccagcagac ttagcggatc atgcagattc 2220
tgttcaagag gaaaagccaa gcgcgcacac accgtcggaa tccaccgctt caagatcgta 2280
tcgtagctat attcctgcc atcgtctgtt tctaagatga atttgttgtc gagcttggag 2340
aaggagactc gcgggtcgct gtcaaagtcg gatgggtctt gcgggaagtt gctgattgca 2400
ggcggggaac ctgtcgccgt tgggtcgtgt ttgggtctt ggagcgccat tataggatca 2460
aactaggtgc taaaacgcag gttgaatgaa gaggttgat gagtttaaag tccaagcctt 2520
tggttgccg ggagcgttga tgacacagtt acgtaagcaa cgggaagctt ccagccttta 2580
aactcggtag taataataga gattctcttg aacagcctaa taattattat cagagttaca 2640
tagacaatta tacaagaac atcagttatc ttgctatcgt atacactaat aaatcgagaa 2700

cattatatat gcaaatacctg ggtatataga agatgggaac cactccacta atgaaatggg 2760
cacttgccag ttcgcgagac tttcaagcct ttcattgcct cctgctgctg ctttctaccc 2820
tttgcttgaa gtatctgggc ccgacatcag gaatgtaaat ccgttcggac agtacttgctc 2880
accttcaatc ccgaagagg ggggccagtg ccccttgacc aaagcatcgg acccaacgat 2940
tcagacggcg ggttacgtat aaggtcgcca tccatgagga gaaatacttc gctaagattg 3000
tctcaggaag gttcatgcca taatgagccc gtatcaagta ccaaacaag gccccacag 3060
gaataaaatt tctttttccg ggggttaatt aatatagtgg aaattatcta acccattttt 3120
aaacaattta acacttatte cctattttctt tctttctatt atcctactca ctcattttatc 3180
ttaatctctt taattttatt ctatcctttt tctttatcaa tttactt 3227

<210> 1759
<211> 3839
<212> DNA
<213> *Aspergillus nidulans*

<400> 1759
ccgactgggc cgacgacgaa gagttcgacg acccctctgc cttccccccc caacaaatca 60
caaccaacaa agacggcacc aagaccgtag tttcataccg cttcaatgac gaaggcaaga 120
aagtaaaagt caccgcgcgc atcaaaacaa ccgtcgctcg cgaacacgtc aatccgcaag 180
tcgcgagagc cagaacatgg gccaaagtctg gcttggaaaa aggtcacgct gctggtcctt 240
cgtttgacac tacctccgtc ggtgaaaaca ttgtcttccg cccgtctgtc aactggaagg 300
cgcaagctgc ggagcgagg aagaacggcg gcgagaaagg aagcatcaag gaccagctga 360
aggataagaa ggtcaagtgc cggatttggt caggcgagca ctttaccgcg cgctgtccat 420
tcaaggatac catggcgccc gtggatgaac ccggtgctgg tggtagtgaa ggtgggtgctg 480
cggtggcgga ggatgcggct ggaggtctgg gtgctggcgg tggtagttat gtgcgcctc 540
atctacggaa gggcgctgca ggtgggtggc aacggatggc cgggaagtat gagaaggatg 600
atctggcgac tctcagagtt acaaacgtat gtctcgctgt tttcagtgcc tcgtttgtgg 660
ttttttgcat cggggattcc ttcttggtcc tgatggctaa tggatgaacgc ctaggtttcc 720
gaacttgctg aggaacaaga actcagggat ctattcgagc ggttcggtcg tgttaccaga 780
gttttcttgg ccaggacag agaaaccag agagccaagg gctttgcctt catcagcttt 840

gcggaccgga ggcacgccgc acgtgcctgc gacaagatgg atggatgtac gtttctttcc 900
 ctccacctat atctcccttc ttactcgcaa atcccttata atccttatca caataagctc 960
 cgatgctgac ttctccctgc tgcagtcggt taccgccacc tcattcttcg cgtcgaattc 1020
 gcaaagaggg ccacttagat tttttctcca ttttcttcgt cgtatcatat catattatct 1080
 ttggggatta tttctgcttc gatcgggtatt tacgacgctg ttctgcaggt ctacactggc 1140
 ctgtttaggc agattggatg actccataca tactcttgcc tcacgagttc ctttttctca 1200
 ataaaagtg catgatccgt gaataacgaa gtaataagat gaagacttta tttttaatgc 1260
 tctatggcga caaataagaa attgcagagg ttatagagac acaacatcta ccttggtgaa 1320
 agcacatagc tccctggtaa cgttcggtag tcggcaccag ctttagcaca ttgtctccca 1380
 ggtttcattc aaggctatcc cgtgtctccc tgtgtcttag ccgttgaaag ggagaacggc 1440
 cgtactggat gtttcaggac gcagtctctt ggtgacactc gtgagatctc ccgtacaact 1500
 cacctgtaat cagcctgctg tagtctgcgg gaaagccgtg gaagagagtc aggaaccaag 1560
 agtcagaagg gtgagtgact tttgcttgct tcaagatagc caaacggata gcgcagtgac 1620
 tggggcagag tgggtcatctg catgcatcgg catctagcaa gttagggcca agtgaaagtc 1680
 atacctagtg ccgaatgaat agtatccggt tctcagtatc tttgcaaact aggaagataa 1740
 gtatagctcc cagcatatga gacatgtgct agtcctgatg caaattactc gcagatgcat 1800
 atgtacaatg gccacctgag cagcggatac tcgggacttg gaagagcatt tctgtaggca 1860
 gacagaagta agcctaccgg tatTTTTTggT cttctcaaca gccagtctag ctctctccgt 1920
 ttacatacca ccttcaggac tcaaaaatag tccgataagc gccccacccc acttactcat 1980
 ttctccagg actggcaact cggctgtcca gacgatatgc aagtcttgat ctccggctag 2040
 gctcgacctc aaaacggctc tgtcaactga caagcgaagt agagtctgat ccatgtagca 2100
 ttgatgtttt gtgattgact gtaacaacgaa agcagtcgtc ctgccgtaa atgggcatca 2160
 cattggcccc cggagctttg ccttcctatt ccccgagctt ctgacaagtg gacgaccagt 2220
 aaagagaatc aactgccggt gaaggggcct cggggcgctg tcggcagcta gaagctccgg 2280
 ttacattgca tagaatccac agtcagtctc tggacaacaa ctggcgaaga tgaggatctg 2340
 agaagcgcca ttatgtcatg gaggacaatt atcttcgtct ggaatctgaa acgggaagga 2400
 ggaaaggcgg cattttcgca ggtggcgggt tgactcgccg tgtttctggt ctgtgtgact 2460

tcacctaact cccaactggc gaggtctggg aaaacaaagt ttgacttctc ttgacaagcc 2520
 aaagcgtcga ccgaggcaga ttaccgggtgt cctgtagctg tgctcagtgg agaaatagtc 2580
 aacggtagtc ggcgggtgcg atcgtggatt tgtgacagta gagttggggg cctgtctacc 2640
 cttcatttct gagaataaac ccaaggacct tgtgccaatg aattgattat cgagcttctg 2700
 ccttctatgg caccacgtcg atcagtctcc cgcagtatcc agatgcatgc caccattccc 2760
 ttgaagcaag gtgtcgactt gcattcgggg cccatgatat tagtcactt gtcgaaatc 2820
 gatttcattg acgtggtcgg cagttaggac ttctgccc ctcaaggga atcttgggtct 2880
 gtacggaatt gatggcactt ggtcatcggc cggccctcgg cttattgac tagcagagag 2940
 gccagagcga ttaccagcag taattggccg cagctgaagt agtacagcta acttgaacag 3000
 ggagtaaaat cgtgggtggc gtcaggcata gccacaagaa attgcagaat cctggccgct 3060
 catgcggcgc ccaaggtaat tgccgagaac aactgctgcg cacatggacc gattatgcg 3120
 ctaagctagg acgcgacgca gacagtttgg aatacgaag aggccttggg gtgaatgtca 3180
 gccatggctg attattctcg taccatgact ctgagataca tcttgattaa tctccgagtt 3240
 taacttgatg tagagtcggg tgtaccagat cactgccta ggcagaccg tttgcacgtt 3300
 agcatatggc atgtaacgat ccaaacctgg ggtctccacc aagtatgttt gtgttctggt 3360
 cggcgtgaac gttcctagga atacgcaag tccaatcact caagcgtct gtcttgggcg 3420
 cttcagtagc cataagtga agtggcggt aatctgtcta gactctatgt ttctgtgacg 3480
 gataattcgc agtagacctc agtctgaact atacggacca agattcgagg gccgcaatcc 3540
 gcaactgggt agccgggtcc cagagttgga accttccag aagatcgaaa cgcgtggaga 3600
 tcaagggatc ctggaaccaa cggccgaatg ttctggacac aaagagcacg agtctactga 3660
 ccaacgtcga tccgaaaaaa gccatctgac atacacctg gtgtttcaga cgatcataac 3720
 ggcgagctgc atctcgggtat gctatcgacc ttcaatgttt tgcacgtgc caacacataa 3780
 cgatcgtgct atacagcggg gaggatcggg aagcgacta gaagtatgag ctgagattg 3839

<210> 1760
 <211> 3904
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 1760

atgccggatg tgtcgtcgcc atgatcgcca aagatggggt aatcaggaag acgaggtgga 60
 aacttagtcg atggaggcag gcgctgcaga cgtgagggtta tgactggaat agatgaacaa 120
 ttgaggctac tccaaaatat tctgtatttg gttggaaggt gagttactac agctgcggca 180
 gtttgaggatg acagagaccg agcggcggct cctgttggtc gtttgtcctt cggctcggcc 240
 tcgagagtca cctcactctg gggttggctg gacgtagctc gtcacgggat tctccagatt 300
 tcgtgcttgg cgtcaaacaa acaaccaaca cacttcatca aacatctcag tcaaaggagc 360
 accctctttt ctaatgagga cgacagcttg ggttcggcca gcaaagcagc tgattcctga 420
 aattgcaata tagcagcaat aatcactaat caatcatcgt ccggaagcga aacatattct 480
 atgacgcact cttttcattc catactagat ctttctaata tactattcca atattcttct 540
 attcaaattc tttttacctg gggatactt gctgatacca ttatccact aatctttcgg 600
 actagcacca ggaataaaga aaagagagag agagagagag atggcaagag aactattaaa 660
 aacaaatgga catggacgtc aatgcgccag acattcccat tccacctagc acggatgtta 720
 gaaaatctcg catctctgct tttgtcgcta tcgatttcga gttctccggc attgcattag 780
 ctgcacacgg aacaactgga gctgggccac cacatagctt gcagcagaga taccaggaat 840
 tgaaggaatt tgctgactag taccaaatac tccaagtcgg cttaaccttt tgtcaggagg 900
 atgttgaggc aggtcagatt atctgcattc tttttgagct ctccgaaata tgtgatattg 960
 actgtctgta gggaagtata ctttgaaacc atataacctc tacctcagtg caatcattga 1020
 tcgtaggctg tacgccgaga gaaattgttt attccagagc agcggtatgt acgctcagcg 1080
 ttattttcgc aggactgagt cttccatgca gcggtcgagt tctcctgga gcacaaattt 1140
 gatatgggcg ctttgtacag aacgggcgtg acgtacgtat cgagagaaga ggaagcacgg 1200
 gctatctcaa aggcccaaga aagatgtata atggcaccgg tgctgacttc aatcaatgga 1260
 cgttgacgag accgactacg aatctctagc acttttgaaa ttcggtccgga agctcataga 1320
 cgaatggatc gcgctcggtg atataaaggt tcaattttga ttgctgtcct acctaatcaa 1380
 ttatagaagc gcgataaata cctcaaaatc ccgccacctt ctgcgcaaaa ggaaaccag 1440
 aactcgaca gcgtgccttc gatattaaac aggttccaaa agagactggt ccaccaagtt 1500
 gtcgaagtag agtatccaga ctttgtcacc atcgacggc ctggattcgt acagattatt 1560
 gactatgacg agaaacgca agttgctgtc cgggacaaaa gggtcagtg gtgtcaaaaa 1620

cgagttcggga agcagacggg tttcagatgg atcgccgaag ccctggcttg gggatgatctt 1680
 acgcatctca gcaccaatta cttccctggc gtcagaggca aactgcatc aacggagcag 1740
 ggcaaatcac tccaggaatt tgttgagaac ttcaaggcac gcctcaaagc tcatcgacct 1800
 attcttgttg gtcacaacct cttcaccgat ctggtttact ttttccgctg ctttttttgg 1860
 aaccctaccg aacctatgtag aggactttca gtccatggtg cacaagcatt ttcctattgc 1920
 catcgataca aagtaccttg ctacacatga atgcgggtcc accaatccca tatcttcttt 1980
 tacaggaaat caataacagt ctgctgggaa tatctaaacc aatgagtgga tgacgcaata 2040
 tataactggc gacagacaga cctcttttagg catacatcct catttcgcca ggtacgaaat 2100
 agagaaaatc gatcatgaag caggatacga cagtctactc actgcgcgaga tattcgtcaa 2160
 actctcagcc cagcttggga gcggaagtca aattaggccc gcaggatcac cctcaaatac 2220
 atctttgacg gcggcacacg gcctcaacaa ccgattttcc catttgcacg ttgaagagac 2280
 gagcaacgga ctggccagcc cgctcgtggt tgctgaaagc gaaaggagcg atggggtctt 2340
 gggccagcaa agccatgcag aggagatacg actggctgag aaaggacttt tgatctccag 2400
 accgaatttt cagttctgga gagtgtatgg caacaattta cgcaactttg gaaccaaaga 2460
 gaaggtttgc cgtgtaaaga acgctgcata gcccttaaat aatgcactac ttggactcaa 2520
 tctcaaacca tctacaataa cccttagtag aatctccaaa atatgaagcg agcaattggg 2580
 atgtgcgcag catctatcta acagtacacc ttggattcaa gaaggtaccg ctagcgaaat 2640
 cagctgcaag cactctctct gagcaccgca atgaatgatc gactggttgt agaagaaact 2700
 gaacgcagtg acgataagga tgggtgctgtg ataaagaaga aagagaaaat tgagtgcagc 2760
 gggaaaattg ggtagaagta ggctgaagtg gtcacgtggg tacctagctg tttttgggct 2820
 agccaggccc gacggggacg ggaaaacagt gaccgacgac ttttctcgag acttgctgaa 2880
 gggaccgtag gagcctgtta cgaccacact aacagccact tggagatgtc ttcaggatcc 2940
 aatggtgcca ggcgcatagc ctcaatactg cgtaagtaac attaggcttt attcccattg 3000
 agtctcttct gatgtcgagt tgcagggcct tcgattgcg aacagcgagt gtgcagcagc 3060
 tgtcaagaga cacttgtccg ccgcaactat gcctccgagg ctacacccat ttcccctaaa 3120
 ccctcttcgt cgacctcatc tacgtttcct gttgtgagcc cgacttatac tatcaatgct 3180
 ggcgtgctcc tgtcccgctc gccccaaatc acacgcgacc tcaccgattt tgagaaagcg 3240

tactacttct accagaagcg tctgaacgag cgactggcgc tcccattcac gaaatacttc 3300
tactttaagc gcggaacgcc ccttgacgag gattggaagc gtaagggtccg agagcgccag 3360
accgctgcgc gcgatattgg caagtacaat gcgtacggta aagaggcgtg gaacgatgaa 3420
ctgcttctgg ggcgaagga gtcggaaccg gagcatattg ttgaggcgtt gatttcggat 3480
gccgagagca ctgccaacaa cacgtctcaa gatacaagca agcaagagca aatcccaagg 3540
ccgcatcccc gggtaacgga ggcggataag aagggtgaca ccaagagtct ggatcgggct 3600
cttcagagga ccctgtactt gcttggtcaa cacanggaag gatactggaa gcttcctagc 3660
tctcctgtcg cttctgggtga aacccttcga tcggtatgct gtgtacccca cttgctgtgt 3720
cgtgcgcttg ctaatatgtt tttgataggc cgctgaacgt acccttgaca atctgctgtg 3780
tgaacatgac acctttatgt cgatcccacc tgcgggcacg gtgtacactt cgaaaccag 3840
atgacagaca ccgcgccacc tagcgggaga gcatcttatg aagaccatat gccggcagcg 3900
actt 3904

<210> 1761
<211> 3356
<212> DNA
<213> Aspergillus nidulans

<400> 1761
gaaaactcca taagattcgt gctggcgaac tgaacaatga gagcccagaa taaattttaa 60
atacgattcc agcctgatat tgaataactg aactttgtac gctaccacg ggggtgggag 120
cactgtaata gactgagaat tagacaaggt tcttaagtaa agcaggaagc tacggcgatt 180
tactagactg agatcaaatt ttgttagtt ttgtcaagct gtggaaatac tttgcagagg 240
atatgcctta agttttgtat ttgtgctgat gaggaataat acagccaatt catgggcaat 300
atgatgacgc tcttagcaag cgtcgaatgg cctgcgaga agtaggcaag aataatctta 360
ttctttctca ctgattttca tctttttcga gtcccccttc tttcttcggt ttcattccatt 420
catttttagac ggcattgagct gttctatctt gccctctat gctacgccag ctgaatcgct 480
ccaacagcac aatgaagggt ttcaggctcg acaatggggg ctcgaccatg ggcaggccgg 540
gtagaacagc accattgccg gagcagttat tccgagtttg aagaatggta accgacgagt 600
tgagcgctac aattgaattt attggaacct caaacacaag catcatgctc aaataattaa 660

ggaaggaggg tatagcggcc agagctcaac catcctccgt tgttcacaca gtaacagcgc 720
 cttgtgcggg actgatcttc gacggctctg tttgaaatgt atgccactt tgtgagacaa 780
 agacatcgat atccccgtct gtaagcctat cctcatccac ggctcccctc ccgataaacac 840
 cccttttctt atccctcctc tccaggtatg caatcaaccc tataaatggc agcgtcaagg 900
 ccccgagtaac caagctagcg aaataacccc ttcgatagtc cgggtgcatct gtgacagggc 960
 agaaaatcaa cggccaccaa gtgacaaatg caaaatcaaa cgagttcatg aaccccgctc 1020
 cgatggcgcg cagctgcacg tcatggccgg tcacgtcggc caaccagcca taccatactg 1080
 cctgcgggcg gtacgtggtg ccgagcaagt agaaggcgaa gaagtagcct gctgttgggg 1140
 gatctgagaa gagaatggcg gagcctatga caaaggttag gccaatggca atagagactt 1200
 cccatcgga acgcagtttg tcagagacga cagcgtagag gacagttcct actatggctg 1260
 tggcatagat agcgggttgg tagttgttct gttgcacggt tgtgtatccg cgcgaggcca 1320
 tccacagcgg catgacgttg ttagaaagac tctggacgca gagcgagtat actagaattt 1380
 gttagagtgg agcgcctcaa atagtcaagg agactaacgc atgaagataa gcggcaagag 1440
 atagaactgc cagctccaaa gcacccgttt gaagaccgtc aggtcccatg actgcttgct 1500
 gggagagccg agtcgagcgg ccgcatgctc cttctcctcc gcgttcaaata accacgccgt 1560
 tcgatggaca ggcagatcgg ggatgaagaa ccagcctgca ttgtctgaat aagcctaggt 1620
 tttatttttt tttcttttac ttattttgag ggaaggggta ccgaataacg cgacaggcag 1680
 agtcatgacg gagacaatga tgaagatcca tttccatgca ggaaggccac ccttgctgct 1740
 caggcttttc aacagtcctg cttgaatcca gccaccagcc atagaccgga gatggccaaa 1800
 gacgcagaag atggcgtttc tgggtcccag ttcagatcgc ttgtaccatg aaccaaggat 1860
 gaacagggct ccgacactat cggggtcagc cacagcccga gccacaaga ccagacctac 1920
 tatgcaatcg ctgaaaacgc cccttcgata gcattcaaca gaatgacctg ccaggcgtgg 1980
 gtcgtccgaa acgtgaccat tgtaaggaca ctccaagtaa cgtttgccgg aacgaagaca 2040
 tgtttcggcc gcaccagagt gagaagactg gtccccggta tctggcaaac agcataggtg 2100
 accaggtagg cggttctcat gtaattgtag tccttacctt gaaagttgag ggctctttc 2160
 attccgctga tatatgctga ggagtagctg gctctggtga cgccgaaaag aaaccagatc 2220
 aaggagaaat acggcagtaa tgtagtgtcc agtttcgcca gcaaggcgcg atctttccca 2280

tcggagcccc agagccaaat ggctaccttt gtgcgaatgg acgccattgt ctgttgagac 2340
 tcgatagaag tcaaggcggg ggtatctcag ttggagacgg actgaaaatc gaatgtgaaa 2400
 atggcgaaat cgggggtcag cctgtgtgac cggattgtgt gatcgagacc cgataagcgt 2460
 catgccgttt agatatcctg cgtccttgac agagctacat agtctagaat ttcaaataat 2520
 ggaggaccct ttacgcgcaa aaagtagggt cttgggtgtct gtatagggat aaattccttt 2580
 catggatgca accttatggc aagtcaatca acgtgctctc tagacggcaa caaaatttag 2640
 aaagagtata tgttactaag aatataagaa agggaagcag cggccaccgg ttgagcacag 2700
 aggcagatat gtacttggtat ttctggctac tcttttgtct ttggctcctt ttgcttcttt 2760
 tgcacagaca aaaacgtctc ctctccctc cgtgtacct tgatctcata ctcgatcatc 2820
 ataaagtctt tcagccgcag ctctgtcgtc ctcccagtc cttccagctc atccagtcgc 2880
 tcaagcgtcg ccgccagatg ctctcaaat tcagggtcac tgcagaccga acgaaaggcg 2940
 ttctgcattg gcaccgaatc cgtctttaca atggcgtcgg cgtcgattgc aatgatgttc 3000
 atctcatcca gcttcttgat cagatcggct cgggtcatga gctcttgccg cttgtgcagg 3060
 gcgatgcccg gtagtccaga gacgtagtgc gttcgggtct tggccttttc cagctcgacg 3120
 agcgtcttgc cgaggagcat tgcgccggac tactccttgt tagccggggt gattcttgat 3180
 agcgtggggg aaacttaccg agagatcctg ctggtcctca gccttgatc ccatctcggc 3240
 gcccaaaatc cagcatttac acaacagcca gcgcttctct ttctcacaaa tggcgtgaca 3300
 ggtcttgagc atgtcctggg accgggagac ctgatccctt tagtaggggt aattcg 3356

<210> 1762
 <211> 1206
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1762

gacctcccca ggtcctgcaa ttagcctgct gtgctgttct atccgcatgg cccaattcaa 60
 cgcccactat tatggccttc tatttctga ctttcgccac ggccggcatgg gggatatctg 120
 tgcactgtca tgacgtacgg caagaacctc ctctactga cctcttttga gagattccct 180
 cctcgcatgg ctgggagaga tactcaaaaa ggaaccagaa gcgcgctcgc tccttgtcgg 240
 tgccctcggg actcttgttt gtcggtttcc cacagtaacc ataaggcata cttttcttga 300

cgggggaaat tgtagatgta ggacacgcaa ccatacctct ccgtgcatgg cggacagccg 360
 atagccccac gtaccatta ggggtccccc ttgctacggc gtttgccgca ggaagcattg 420
 cggcgattct ggaaatatat ctctatttga ggaggtaggc tcccggttgc gtattctgtt 480
 tggttatgct gatagctggc gttattcttt gcagccaatc gtacatctta gaacgactag 540
 cgctcaaca ctatcggtg ctggggacga tgggcagggt cagaatgctg atactagcat 600
 gaggggcaag ggagctgcta gtggtgtgtg ggaggtgcgg tcgtagtgtg tctgggaaat 660
 atgagctgga gaagggtgtt ctactgtaac ttcagctata tgccgggtaca atcacgatat 720
 gcacagagtt tgaggccaat tctcgataaa ctgactgac taacatactt attaaggatg 780
 atatcaagag tataacaaat tgggaaccac agtacagaag tctactgagc taaggatgga 840
 taaacccaaa gcttggtatg gttatcccat taggaacctt ggaaactgca caattgctgg 900
 cgggccttcc gggccgaacc atgaagtaaa agagttgttc tcaccttcaa tgacatcaca 960
 gcctaattca gcaccatcat tacaacaaat ccgcagcaca atggcattgt tagacctccc 1020
 aaaacctgct ggctcaacag tcggcgcttc ggttatagtc ggcggtcata ttaccgttca 1080
 aacgaggttc atggtcaaag agcaagtttc agggcacagc tcaatatgcg cgcccagcta 1140
 cagctttcca attgaaaaca aaggcaaagg gtaaaaagat cctagtattc tatagtgtca 1200
 cctaaa 1206

<210> 1763
 <211> 3066
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 1763

gcgaaaatga cctatcagag ccaaatagta tccgaggctc ggattcagac tcgctcctcc 60
 acatcccgga gcagccaaca gaccgttttc aaccgccata tcagccagta acactatcaa 120
 tatggctgcc acaacaaacg accagcggcg taaggttggt ttttttttca aagctcactc 180
 tgacccccgc taattattta taatgggtta tcagcccagc agcttaagat ccattcttgc 240
 gggctctacn agtggcgcaa ttgagattgg tagaactcag gatactattc aacttcttcg 300
 aattggagtg ctaacatgat gtagcaatca cctatccggc tgaatgtatg ctttgattct 360

ctcaagctct tccccagacc taggatctaa gtgatttgta gttgcgaaga ctcgatcgca 420
 gctcaatcgc aggctacccg actcgaagaa gctcccatgg ccgccttttg gaaaacaatg 480
 gtacgccggg tgtacaacat tgattattgg aaattcttta aaagctggaa ttcgtgagtc 540
 cctggtgtta tgcgtataga ctggttggtt ttggggcgct gatacattgt cgctatactc 600
 aggattcgtc gcgttcgata catttaagtc gatgctgcag gatcaggatg gaaagatatc 660
 aggcccgaga actgtcatag ctggcttttg ggctggattc accgaatctc tgctggctgt 720
 aactcccttc gaaagcataa agacacaatt gtcagtctta ccccatatcc cagttgttct 780
 gtctatgcgc ctggctttca acaatcacga gacgggtagt agctaatacc gtactctttc 840
 cacctcctac aggattgatg accgtaaatc cgccaacca cgtatgcgcg gattttttcca 900
 cggtagcggg gtgatcttcc gagagcgagg tattcatggc tttttccagg gattcgttcc 960
 gactacgggt agacaggccg cgaattcagc gacgcggttt tcgagctaca ccatgctgaa 1020
 gcagatggca gagggttatg ttgcacccgg tgaaaagcta gggactgcaa gcacgtttgc 1080
 ccttgggggc atggcaggct taattactgt gtatgtcaaa tatagtccac aacatcatct 1140
 caaaagacat actgacaaca ttatctagat acgtgacgca accccttgac accgtgaaga 1200
 ctaggtttga ccaaccagct cttagatttg ggcgagatgc tagctaacag cgaaatagga 1260
 tgcaatcgct tgaggcaagc aagaactaca aaaacagctt cgtctgtgcc gcgcgaattt 1320
 tcaaggacga aggtatcctg accttttggt ccggggctgt tccgagactc gcaaggttga 1380
 ttatgagcgg cgcatagta ttcacaatgt tcgttcacgc cgaccaatcc tattttgtga 1440
 cttagtgact aacgcgctac tcataggtac gagaagtcta tggacatcct cgactccata 1500
 gatccggaag gaaggatat ctgaaagcat agcgcggcat agagaaccag atttagagca 1560
 acgacgacga tccgagtaaa actgttgtgc cgatgcagca cagcggcgtg tttctcgggt 1620
 atgcaacatg caatagagga agttgatgta cgttcaaaat taaaatgttt gactcccaa 1680
 acgtttacac tattgttggt tcttaattat ctgagagggt agtgccagta tttcgcggtc 1740
 gatgagccag gatcgcacgc tatccatgac cttgactagg gtctcacctc cctccaacac 1800
 gttgtccagg ttatggacag tgaaaccaact tcgatgatct gtgcagcggc tttggccgta 1860
 attataagtg cgaaccttgt cacctcggcc cattcgcctt ataccgcca ttgctcctct 1920
 tcgaagctcg actaattctt gtcccgcgcc tcctgtcgtg cttccgccag ctttgcccgc 1980

agtatctgcc acgctttttt gcgatttgca tgctgggacc gcgaatcctg catcgatacc 2040
 acaataacctg tgggcatgtg agtcagacga atggctgatt cagtcttgtt tacatgttgg 2100
 ccacccgcgc cacttgctcg cattttttca gtacgaactt cttgcggatc aatgtaatag 2160
 tcgctatttg ggtcgtcaaa gttgaacgcg ccgtcaccgc cgctgtgtc cggaagctg 2220
 ggtaagacca tcacactgac cgcactggta tgggtgcggc ctttggctcc tgttgctggg 2280
 actctctgga ctcggtgtac acccgattcg gtccgtaaga gatcgtaacg cccctctgct 2340
 tctacttcca aaacagcctc cgttagagca tctgctcggt tgtccacgt tcaagcttca 2400
 tgagagtaga ccgtaaccct tgatgagcac aaaatgcgac atacatctgc agtaattcaa 2460
 aggcaaagat acttgcttca tccccccctg cacctggacg tatctccaac aagcatgaaa 2520
 ggtctgcgaa aggatggcgg ggcaagagg cgcgcttcaa attatccgaa atcgagtc 2580
 gtttagcttc cgtgggttgc aattcttcaa cggcaatgga cctcagctcc gcttccgtat 2640
 ctggatcttc tagcatggaa tgaagctctg acattgacta caaagcgtca gtcaaagatc 2700
 caatttggtc agggcggaag aagctgacct cgttggcatt gctccattct gccaggtt 2760
 ttgcaactgg acctagctca ccagcgcgcc ttgcaatttt gggatcaaag gaggttgtca 2820
 gctgattcga aagatttgca tgctcggctg caaggttgcg agctcgcgtc aggagagcag 2880
 gtgataagag tttgtctggc gtaaagggaa gcatcgtcag catgtatcta ataaggtgga 2940
 agtagtccgt ggggacgctg tataccagtt tgtagacctc tccgctggta gagcagccgc 3000
 tggttgcata ctagtgcgc ggggcgcacc agacatcgag aacacacacc cagagtcgaa 3060
 agcatg 3066

<210> 1764
 <211> 3362
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1764

aatttgccgc gtggcttgaa agtggttgaa gatggacgca ggcggacgaa gtgtacaggc 60
 ttggcatcga ccgagaagca cgaccaactg aacgtctgat ccgaaaatac ggtgaatttc 120
 agagacgcta tgaacaacaa ccgcaggaca atggaccttc gtcaccggcg ctccctgcag 180
 tgcgcccggc actggccgcc aaagtcgacc cgttcgcttc gagtgcagcc gcaccacag 240

atccccaatc ccagcagcag ggttcaagaa ccacgaacgc gccgaagaca aaatcgggga 300
agccgaagat ggccatattt actgataccg agcctgcagc aaatcaaccg gctttaggcg 360
cacaaactaa aggggtgggac agtcttgaat ctaggcacga tcgacgaaag gagaacaaaa 420
tagaggccaa accctggggc ggggaaacat tgaaagctgg aaggaaagct ccgccaaagg 480
agaagctagc tgttttttagg gatgaggtaa gttttgtgat ttattcaacc ccgttcgtca 540
gcattccgta tatttacgat cataggacta attggtggca tgaacctgga ttggtttact 600
gttatgtatt cagtcaaagt cagatttacc aaccaaagag gaaatgcaat caaacccagt 660
tccagagcac cgcatacggg aagccgtaaa cccacgtaca ggaaggagag agcgagtctt 720
tgtcgacctc gatgcagtgt accccgatta taagaatcct agcattgagg ttagctttga 780
ggagctgagg gccatgaagc gtggttggtt ggacagggac tggcgcaaga aaggacctct 840
caagcagatc tctggcaacg ctgtccaaac agagcctaata ccatttaacg acaaagccct 900
tcgagaccag ttccaacaaa agctgtcggt gaggaatata gatgaccatg ctttgaatca 960
accatcgtc tctgagaaga ctcatgacgc caaagctgcc aaaggacgga agctgaaagt 1020
ccgcaagtt aagggcgaaa cacagacaag tgagaaacta tggcctacct gtcctaaat 1080
gtcttattag gctaactttc gaaatagtca aaatgaaatt tgactctccc actggaggca 1140
agatccgccg caagagcacc gcagagccta cgatgacaat ccatacgcgc gctgcaacag 1200
acgaaatata cagcattttc aaccagcctt tgaaagcgga gaccgaaaat gtggccgaaa 1260
gcagtgattt cgatgatgat gactatacca gtgccggtga aagtacggtt ggacgaatat 1320
ctgctgcgtc aagcgatttt ggggacgaca cattccacaa atcgttcgat gaaggtgacg 1380
gcgatgactt cgaaaacacg agcgccgaca gcgttgtaa tggagaatgg actcgatttt 1440
ccgctgctga actgggcgct gaagcaacct cgttccactc agaagctgct gaccaaacac 1500
aatcaacgat tcaccatgcc gaaagcgacg acacagaaga ccaggatgct ggaccagaat 1560
ttgagcagcc gcaaaggccg agattcattc cagagatgcc agaggattat gtaccacccg 1620
ttggaccgta ccgagatcca gtcgttgttg ctcaaagccg cttgccattc atgacacct 1680
ttgttgaacg caccgagcat tcattccctt ccatgactgc agcgcggtct aacctatata 1740
gcgcgaagac tccttcgaac gtgctgaacc cgacgacaac acctcgcatg ccccggatgg 1800
gaaatcttct ttccagtccg cttccaacgg aaacacctt tcatggacaa accatgcacg 1860

gcctagaaga tatcattgaa agtcccaccg caaacaggtc aggtttcttct agcctgagag 1920
taccatctcc cacaaaggat tccaatccac aagggtactat aatcaaagat actcttttgca 1980
atcccataga ccggtcgatt cgagacacta tccttcagga attgcacacc acgctcgctg 2040
cgtaccctgg ctaccatgct catccggata cccaatctca ttacgcccct gagatagaaa 2100
ggttcatgaa aagcagcagc aagcgttcca gaagtggcgg cgaggcgggc tttgacgtgc 2160
cgatcatcga tccgccggga ggagagcgca gttatatcat cagacgggag ctcggtgcag 2220
gagcctacgc tccagtctac ttagcggaga gcattgacaa tctagactct gactcggaaa 2280
tggaatccgt tggcagcaat agcgggcgct ctaccgtttc caacagctta acgcggcaga 2340
aaacaccccg ttacagcttc gaggcaatca agctagaggt tggcccgcca aacgcctggg 2400
agttctacat gatccaaacc gcacatcacc gattaagcca gttccaacg ctctcgctg 2460
cagccgacag tatcgtacgt gcgcatgaga tgcacatttt caagaacgag agcatccttg 2520
tcgaagatta ccgccacag ggaacgttac tggacctcgt gaaccttgct cgcaacgaag 2580
ggatctacgg ccggcgact ggagagggag gcttagatga gtctctagcc atgttcttca 2640
ccattgagct cttccgact atccaggctc tccacacctg cggcattctt cacggcgaca 2700
tcaaagccga caactgcctc atccgcttcg acgacaaacc agacccact cagcagatac 2760
tcgatgaaaa cacagatccc cgcgattct actattcacc ttccggcgct tttggctgga 2820
aaaacaaagg cttgcccctt attgactttg gccgcgggat cgacatgcgt gcattcgacc 2880
cgtctgtgca gtttcgttgc agattggaaa acaggggaac atgagtgcc tgagatccgt 2940
gagatgagac cttggacgca ccaaattgat cttttacggt cttgcgggga cagttcacgt 3000
tatgcttttt ggaaaataca ttgagagcgt ccctaccgat gcaagcaaaa aaacgtatcg 3060
gtttcgcgaa ccggtgaaga gatactggga aaagattttc tggcccgatt ttttgatctt 3120
ctttgaatcc tatacggacc gggggtttga tggagcaaaa ataattgtac cccccacct 3180
tcaggccatt tcaagcaaat tccggaacgg ggaaagtggc ctttcccccc aaaaaagggt 3240
ggtttaatcc aaacgcggat ttttggaaaa aaaaaaggga gaccattca attctcccct 3300
tttgttcaaa acaaaaggag ggggtttttt tcctcctttt aaaaatgggc ccctggggg 3360
ct 3362

<210> 1765

<211> 2512
<212> DNA
<213> Aspergillus nidulans

<400> 1765

ggagacgctg gggagtcacg agaactgcgc gcatctagag gggctcttgg agtagtcctt 60
catgccctcc ttagtgacgg tgcggcggaat gacgaacttg cggacgtcgt ccttcttgtc 120
aagaccgaag aagttgcgga tcttgggtggc gcgcttggga ccgagacgct tgggaacgac 180
agtgtcgggtg agaccgggaa gctccccctc acctgcttg acaatgctga gggcaaggac 240
ggcgagggtcc tggccagtga tggcaccacg aacactcttg cgcttgcgct caccagtgcg 300
gcggggggcgg tagcagctgt ggccgtcggc gaggagaagg cgggtacggg tggggaggag 360
aactgtacga ggaacgagtg agtttcttgc tttgtcgtgg gagtcggatt gtttgccgca 420
gtcgttacat accaccctgc ttcattggga aacctgtaaa ataaaatcgt tagccatttg 480
ttctctgcc gagtttgacg atctccccgc gcgacaagtt aatttcggtg tcgtatccat 540
aaccacgcc caaacgccag aattgcaacc aaatatcgga agatccagtc gtaccttgct 600
tgtcgttacc accagtgatc ttgaagaggt aaccttgaa ttcgtcaccg agagagtcgc 660
cgggaacctataaccagaa agacgccgca tcagccacca attctcatat cattcaccgt 720
gcgttcttca tttgtgtttt cttttgcgta ggacggatat gtgcttcggg aatagatgga 780
tggttcgact gacttcggtg cccatgcgct tctccatgaa aggacgaagc ttgcgctcat 840
cgtcaatttc gacgatcttc tgcgacccat tggccgggta ggaaatgttg agcttcatct 900
tgacgggtgat gcgcggtcaa gacggagggc gcgggattgt cgacggtcga agtgggtgcgt 960
tcggtcgttc aagcgaaaac aagtgtggat ttttgtgtcg atttcctttt ggtgtagcga 1020
gaattcggtc tgtgggtggc tgagtcagcc actagcctag gacggttagt gcttcggtag 1080
ggctcttagt cagttgacgc ctgaggctgt cgcaacagag gtaatccttt attcaggcatt 1140
cgattctgat cttctctccc aaaatcgatt tgatcttcgg aaaatcgttc caatgggaca 1200
agtctgtact ccgggtccta gattatagca gatggacctt tcaaacaatt tcgggctcta 1260
tgcttgacga cttcttagta ttccctgaca ccttcctctt ccgcagcagt acgtagacta 1320
ggtgacgcaa tccaccgaca tcctccagtc tccgtgcggg taaatctcca gaaggagaac 1380
gtccatgata gttgccgtta gccttacagc ttacagggaa acctccccct ttctctttct 1440

tccacttccc cctgaggcat gtatatacca ctctctccca atatcgtag aatattactt 1500
 ttatcattea tttgcttcca ccactctttt ttctcttctc cccgctcttc tttcttctctc 1560
 cgttcgcggt tcgaagtctc acgcgacaca ctggatatcc accccgggccc atctccggct 1620
 cttgattttc caatctccat tcagctcttt taagtaacca acaatacaga gtctctagcc 1680
 tcgaattccc ggcttgtgac ctactttcta gtatcatacc gggcagttgg gggggagggtc 1740
 catatttcta tacgaacgcc gccaatccc gactctccgg ttttactttc tagacgtga 1800
 gcgactatcg cggatagccg aaacctgcgc atacgtcttt ctgtctgatt atgcgccccaa 1860
 aaatgaggct taccagcaag tttcacatcg tttgcgcctt tgcggtgttt agcatcctgc 1920
 tttcagccct gtttctcggc tcgcagcgt tctactaccg cagggttggc accgcggacc 1980
 agccaaccgt ggagttccag gcgccagcct cacctgaccg cagactgggtc gtattcggcg 2040
 atacatggag tgataacaat gctaaagaga ttcaggggtg gaaagtctgg accgactggc 2100
 tctgctcttt tgtaagtctt gactgcagcc ggccagttcg gatataccgg ggttttagcta 2160
 actgaatgac ttgcagttc tcatgtcatc atgagaatct tgcgcaaact gccaaatctt 2220
 tgaaggggac ctatatagga tctgtcgtgg ataagtagga acttgcaggc accttcctca 2280
 acttgtaaa gtcgccgttg tctgatttca gagcccaggt caaacagtggt gtggacactg 2340
 agacaaaagg tatccagcaa ctggacgaag cagtcattca tgatcgccgc aatcgcacca 2400
 ttgtggtagt ttccgacagg gtttgggact tgtggaaaaa gataaccaag gactacgaga 2460
 cagctaccaa gtcaggagcc acatcgtaa agttataatg aaacagttcg ag 2512

<210> 1766
 <211> 4008
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1766

ttatgcgttg cgcttaatga ggttgcctct ggtggagggt cgaatctcat gacacaggag 60
 gacattgata acctcacacc ggaaatctac gacgaaagag tcaagggaag caaatgggtg 120
 ttctgtctcag agcacgcctt catcctcgtt atatgggtcaa tgaagacatg catgttgatc 180
 atatacgccc gtatcacgta tgggtcccaat tcaccggttt actgacttct cgcatctgac 240
 ttgacttctt aaacagagag ggattgcccc aaaggaaatg ggtcaactac cttgccatct 300

atgttgcgct ggggtttatc gcagtcgagc tatccctctt cctcatctgc cggccgctat 360
 caaactactg ggcagtgcct actcccaacc gttagtctct cccactcgta gccttatcca 420
 cgctgttaac cacgctgcag cccaatgttc cacttttcaa tactacgaga tcatccaagg 480
 atgcgtggct atcactgctg atatcgccat gtttctaate ggactccac tcctaattgca 540
 agttcgtgtc ccgctcaagc agaaattgat cctcgtcatt atcttcggaa tgggagtctt 600
 tgtcattgtt gccgccatct tgactaaagt ctactgctc gtcccggagt tgatttcgta 660
 cgtctacatg aactggattt tccgagaaac tactgtcgcc attctcgtca ccaacctacc 720
 tctcatctgg tcccttctgc gcgacgtctt ccccgcgctc aagagctgga cagggggctc 780
 gaaacgcggt accaaccgct accgatctgg cccttggaac agcaaccctt ccggtcttaa 840
 gcacttcggg accggcactg gcactacca cctacgctcg ggcaacgagt tcccaattgca 900
 caaatacgat cgaagcgttg tggttacacc gcagaaagat atgtccgagg tcagcctgga 960
 acatacctac tctcgcggcc agagcgatga cggctcagaa cgagctctgc aaatccgaca 1020
 agacgtgacg attgaggta tgccgcgagtc acgaccacca gcaaactatc acctccacga 1080
 cccgcaacct taagaaaagg cagcctatc aaccttcgct tctttcctgt atataatttg 1140
 tctgctaccc cgagccctgt tctttgttg tttgtcattg tgttacgact agaccgatt 1200
 ttccctgaat agattatctc ttccggagtg gaagtacacg gataccacaa tatcatcatt 1260
 gtttgcccg agctagaagt cagactcgct gaatctcgaa tccaccaaac aacaaaatgc 1320
 ctaccgatg atcggcatcc cgtcccatc tccagtttc cccatttcct caaccatgga 1380
 atccgctctg caactactcg atcgggaatc tgggtgtgtg tctgcagatc tcccgagcgc 1440
 cacgtgatgc ttctgtaca tttctctgc ctctcggccc atgccatcg gctaattcggc 1500
 aacactgtcc cttctctta ttaaacttt tgttcattg aaagcagcag atcgatatct 1560
 gcaggatatt ggagcatcgc caaattctct aacgatctta tgagcttcac tgagggtgctg 1620
 tacctgcgcc atgcaggaga tgagcaattc caaatcttag cgcctaaatc tcggcaaata 1680
 agcggcggat aaagaattct tcgagaaatg acggcaatgt gcaagccagt aaccccaatc 1740
 agcatgtgga gactgtagcc cacagcagca gcgcatggtt ccgggaattc cgattattcg 1800
 acaagagcga tcgagtcaag catcggttga cttcattctt ggcggtcctt gtttcgaaat 1860
 ctattagcgc tctgcgtgc ttcatactgt gtggcgagac gcgtccgtct caatatctgt 1920

tgcaatcctg ccgctaagac ttcgaataat ggtatggtga atgcgggaga acctggtctc 1980
 ccactcacga cgggtatacag atctatatca cggagtagac cgtcactatc gcggagcggtt 2040
 tagctttggg caccgggtccc atataatcat atctgatcaa agactgaacg tacaagggtta 2100
 cggagtatcc acttagtaca gggcaaagca atcgcttaac agcagcacta tgaatcattc 2160
 ctggctatga ttgttttctg gtgagaaccg gcctcgacac tatgcgcttt agccaaattc 2220
 tattccatgg gccgaccacg ttgctctcca ccagcgccag cccataccca ggaagtagga 2280
 tggactgcac tgtgtctgcc gaccggaact gcgcatcatc cctcagtcca tggttgagat 2340
 taggcaaadc ggcatctcgc ttgttactcg caagtttttc aggcacactc gtggcctacc 2400
 atggttgaga gatcttcac gggcattcca caggcattct gcggccaggt cggccaacga 2460
 tcttcgctct cgagcataag ccgctcggtg ctcaagccta ctactgagca ccgattagtt 2520
 cgagtcggtc caacgtctca caggaaatgc tctgtaatta cttgagattt tcgacgagca 2580
 aacatcgaag ctggagtatt ccgcttccca gtactaatag acgctttttc cagctagcca 2640
 ttgttcgaag taccgccgtg caaaaaacac acgatactaa aatggcgctc gagtagacct 2700
 cgattcctcg aaaccagagc tcggtaacta ttctgtttg aaacactacc tccgctcgcc 2760
 cgttctccag tggggagact tatcgctttg actccgattt tagcgcaact cgttgaaact 2820
 atacaagaaa accaaccaca ctaaaatgca tagttcgaac tttgacctc caccgacctca 2880
 agctggacga caccttttta acaacgagtt tctgatgacc agatgctcgc cacaccttgt 2940
 tgttgacag acctccgga caaaaggat ttgtcacgga ctatccacgc gcggcgctgg 3000
 cgtggagcct gattcaccta cgcgaggccg cttaaaatag ttcttgttcg tcgttggtgc 3060
 agcgcgtcga gagtttatgc tactgaattc agtcgcctaa ctctctgcc atatgccctt 3120
 gcgattatac gtgctaccag cctcctccaa tatcccttga gtttagctgg acgtttattc 3180
 gaccgctggc tggtgaggat aaggcgaca cttcagaagc cagaagtcct tcacgcttag 3240
 aatggaatta acaacgatgt atccaggatca ctgccctccg ggcacccgta tcatatcggt 3300
 ccatctatta gagtataaca tccgggtcac acaagaaaaa gagtcggtga attcaagtgt 3360
 cttgaagtag atttattaca acgcatcata cctactagac cacattcagt actcacgcaa 3420
 cattctaag ctgagataac ccagcgatgc tagggttaca agccattgaa tgattacgta 3480
 ctacgattgg cttcattaac cggtgataaa tatatatagc tatatgccta cagctgaact 3540

tctatagcag cgctgcatgg tacaaatgta acatcccaaa tagtagcaat actaccacga 3600
 tgaggatttc aggattgcga aggggttttt cagatagaaa actctgtctc agtaaccacc 3660
 tgggactccg catactgtat tctctcccca tgtctagtaa tccctaggga tcatcaatct 3720
 taacaagatt ccctaattta tggtaggggg cgctacggtc agtattagcc gtcaacatat 3780
 ggtcaaggga tctgtcctcg ccttcataag actattgaac tatttctgtc gatctatcga 3840
 cagtgcgat tgaacttaaa attggatatg agagctagag tatactggga atggaggcct 3900
 ttattcggtg caaatgtata tatatattag gatgctaagt ggctaggagc tcagtctctc 3960
 atgagagctc gaagcttcat gtaggagtct gatgccctcc gcactcag 4008

<210> 1767
 <211> 2052
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1767

aaaataaaaa atagaggaaa cataaaagtc tttcaaacga gaggaatctt ttcatacatt 60
 ccaaggcaac gaataagtat tctcccaacc atgaggggtgt tccaaggctcg gcgctcacia 120
 cgggttgtat tatgtcagca tggcaaggta gggtttaagg gggagagggtg gccatgttgt 180
 cctgatcttg caattgggcc agagcactag caaaattatt aataaacgga acagacaata 240
 aaataatcag cggacacata cctgaaagcg ttgatggagg atgcagcctc cttgtcttcc 300
 ttcttaccgg caggggggtgt cccagtcagg ctgctggcac cactgtcgtc gctgccacga 360
 accaaattgc caccagggcc gaggttctta cgtccactgt tgctgcggga gccgagcata 420
 ctagaaggcc caaaagacat aggctggttg gtgttgcggg tggcggaag tcggcgagg 480
 tcatcactgc caactttgct agacgcgtaa tccggcgggg gtacctgtcc gtatccagac 540
 gagtagctac gggcatcacc acgtcccatg gcggcgcgct cacctcctcc gcggctggct 600
 tgctggcgct gacgttccat ctccggcctc tggtgcgcac gagcagccta gaaaagttag 660
 tgaaaccaat catctcaaca gatgtgaaga cacatacctc ctcacgaatt tgctggatgg 720
 tcttaggacc tttgtcagca tccttcgaga cccagcgagc attacgcaga tcgataatat 780
 cctgaaaaaa aaattagcat gctgttgtca ccatacagaa attggatgac ttaccattag 840
 cataaacttc agacgactag gcaagttcgg agtctgaacc atgaggttga tgcgttggaa 900

gtaggcgtcc ataaatttac ggttctgctc attgtcggga gaatccaagg cagcaccaat 960
 ggtgcgcaga agacttgtca aactctcgac ctgagcttcg tctggagtgc cctcataatc 1020
 aacaagcttc ttgatacaca tatgcatgat acgctccgtc aacatgcccc gcttgaacaa 1080
 ttcaccaatg aacttgacga gaccagacc acgacgtttg gcagcagcag cagcgtagta 1140
 ttcgctggac atcatagccg cttcctccgt gacaccctca ggcttaggag ggaggttgac 1200
 cttccaaccg cgctcgaatt cttcttgaca acggttgaga aggtacttcc ggaacagact 1260
 accaccggcc acaacattgc cgttcttgtc cttgatgttc tcatccttaa tatccatgct 1320
 catgctctcc aacatagtct tgcagaactt ggcttagatg gaagcccagt gtgectcatc 1380
 ggtggccttc tcgaatgtaa gttgaatgac ttgtcggagc gtacgtccgt cagactcatc 1440
 cttggattgg gagacaatct ccagaatctg actggatata cgggggaagt tttccggcgt 1500
 catcttattt agagcggcct tgaccttacg ctgaacaaca tccgggggaa ggtggccacc 1560
 aggtgtagga ccagaagcag cggcagcctg gccaaactg cgaggtttcc atccagtggc 1620
 agaaaacttg agaccgggga cctcctttcc ggctgtgagg ggcattggact tggccatata 1680
 ctctcttttc ttgctgct gcttctcgcg cttgctgcct gtgcgggtgt tagacctgcc 1740
 cgaacctgca cgaggcgaca tgggttgaga agagttgctg cgactgagcg gagtaacacc 1800
 actgcccattg cccattcgtg ggaatgagaa tgcgctgcct atggatgcag ggcgtgagtt 1860
 ggataacgca aaccgcattt cagacgtggt gcctggaggc aaacgggatg gtgcaccaa 1920
 ggcgcccatc tggaaatctg aagtaggcc cccacgagac gggttacgcg acgccggagt 1980
 gcgggcagat tgaggacggg atgagtcatt atcgccgaca gtctcacgta ctgcacgctc 2040
 ccagtcgacg ga 2052

<210> 1768
 <211> 1510
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1768

gctccaccgc gctggcggcc agatctagaa ctagtgcata cctgcactg attgaatttc 60
 atgttaatct attccgtcca cctcgatctt caagtaccaa tccgaacgcc atcaaatata 120
 acggtatcat tttctcgtag cgggcaacga gtaacccctc gtcataaat cagtggtttt 180

taaactgtga gtcttttagag tccttcgtga agagactgct gatattgtcg ttcgtcccca 240
 tcaacttgcg ccgcttcttc ttttcatttt cttcctccaa aaccgcgcg gtttagcattg 300
 ccgtagctgc gttcttgatc ccgtttggtg cggacggcgt cggcgtggac gtgttgcttc 360
 gacttgctga tgctgatggc ggatccttcg aaagcgtagc cttcgacgat gactctctgc 420
 tggcagcatt gctctcggct gccgttggtg gggctacgtc cgcacgga ttgcccttgt 480
 tcttgcgctt cttcgagcca ggggcttttt tcaacgagtg ggtgaggtgt tgatcggtta 540
 aacgcttcaa tcggtcaata agacgctgct tgctgtcttc tttttagga agaattggga 600
 tgatgttttc ttctgtgtag ggttcgttgc actgtgactg ttagtctctt gggccactta 660
 gatgtgggag atacaaacga agacacacct gtaagcactt atcctgcttc aattgccga 720
 ccgcctcttc agagaacaca tgccacatg ggacaatata aaccgccttg acgcttggcc 780
 ccaactgttt cgccgtaaca ggacagatcc agccctcact ctttccttct ccattccctc 840
 tagcggccga gtttctctcc cctcagtat caacttcgaa cttcaattcc acaacatctc 900
 gaagcccctt gactcgtcca gcgagaatct cctcacagtc ggccttgag ctgattccct 960
 cgacaacgtc ctcgccgggc aagaggaatt tcagaatcgc atctttattg tacaagttcc 1020
 cagcgcaatc agagacaatc ggacgctgaa gaggttggtg cgagagtggg caggtggctc 1080
 aaaaatgtgt ttgaagctcg cgctgtgttt ctttaagttg tgctgtgctg ggggtgcggg 1140
 cggcttcacg gacgagttca cggcggggtg ggatgctggg acttgtaaat gaatctaccg 1200
 ctatggctgc ataaaacgac tcacctgcca ccgtcgttac ccatagttgc agagactact 1260
 ttaatcagac ttgatgctgc gtaggtagga tgctatttcc tccgtttctc aggtggcttg 1320
 ccacagcttg cgggatggtg gatgactaag cgcatagttc cccgatcccc agattggcgt 1380
 ctccaaggty tcaacagctg gccagaactt ggaactgaag ctagggtgt cgagcatctc 1440
 cgcacttgcc attgttggtg gagtgtatcg ttcacccggc atttgactca ccgcgttctg 1500
 atgctgagga 1510

<210> 1769
 <211> 664
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1769

acgcacacgt ggtgtttgat gactcaattc tctgcagccg aaagctgttg cctgcatgaa 60
gtcacaaagg ggcagggatt ttttcaccgc tacgggcact gctccgagag tgtacaccga 120
ataagataac aggcgatcca gcagcccagg gccagaagga ttagacggac tcgagagtta 180
tcctcaagg ctactggaat gctcatcttt ggcaagtaca tgatcacaga tagccaaagc 240
gttgcccagc tcgcgtatga tactgccgct atagcgaggc atgctccgcc gagaaacggc 300
gacctttacg cttacttttag gtgatacgct ttctatgagg gcagctataa gatacgctca 360
tgctcccaga atgtcagtat tggctctttat ttggatggag gtatacagga cagttgtctt 420
ggagatactt tgcaatgaca acccaaggta tgtatctagt gcatgcttat gatctcggta 480
gactagcatt ccatgaggag gcgcctgatg caccggacgc ccgctgttgt atccagttag 540
atactgggac acaatgcac gtggtggttg tagacggcca ttagctgtga ggactctttt 600
gacagttagg tggccactgc cggcccgcca agcaagccac caaggcatag gaatactcaa 660
agtt 664

<210> 1770
<211> 3444
<212> DNA
<213> Aspergillus nidulans
<400> 1770

cccggcttta tggtcggagc caaggccgag cagcccgcca tcatcaagat gggcgctcag 60
ctcgtctcgg ctgtgagctg ctctactgtg cctcacatct ccatcatggt aggcgcgtcc 120
tacggagccg gtaattatgc catgtgcgga agagcctata agcctcgctt catctttacc 180
tggcccacgg gccggtgcag cgtcatgggc ccagatcagc tatccggggc aatggagtct 240
gtgcagcttc agagcgccaa gtctaaaggt aaggtcctgg agccgacctt gctgaagaaa 300
caggtagaga gtttccgcca gagtgccggc cgggatagtg agtgctacgc gaccagttcc 360
atgctcattg atgatggcat cattgacccg agggacacga gggacgttct agggatgtgc 420
ctcgaggctg tcaatttgaa tgggggtcaag ggaacggaga cacatcatct ttagctaga 480
atttaggtct tgtagctttt ctatctagta tatagtctcg tcgaattga acgcttgccc 540
ctatccttac ttttaacaacg cccctccaat atcgaacctc agatcgaaa agtactattc 600
ctccccagag aatggggccac ctctgtcgt tccggagtgg agaattgtga tggtcgatct 660

ggagacggtc cgacgagaat gcggtccgat atccgatgtc cgaggtgcta tccaagacta 720
 agtaacatag caccttacac ttgcagtga atcaaataga tatcgtcagg acacatctga 780
 gttacagtcg catattttct actattgtgc ttccattatg gcaaatccct cccttaacgg 840
 cgagaccgtc cacgcggcac ccttacggcc gccactctac gtcgccccat caccattagg 900
 cgaggatggc cgaccgataa tcaagaaggc cttgattgca aaccgcggcg agatcgctg 960
 tcgtattatt cagacgtgtc acaagctcaa catagctacc gtcgcggtct acgtcaatga 1020
 gtatgttctc cctttttgca tgaagacacg ttgtcgctaa cagaagcaga gacacatcat 1080
 ctgccatat tagagatgca gacgaggcca ttaatatgg aagcattgat caatgccctc 1140
 gcaatccgtt cctagatgga gaactcctta tccgcaccgc tctgtctgta aacgcggacg 1200
 ccatccatcc cggatacggc tatctcagtg agaacgctga gtttgctcgg tccatccgcg 1260
 acgcaggaat gatattcatc gggccaagtg ataccgccat gtccactttg ggcaacaagc 1320
 gtgcggcaaa agagtacctc agcaagcatg cgcagatgt cccctaata cctggtacg 1380
 taggatcaag ccaagacgca ccggagctta gtaggattgc tgcacagatc ggctttcctg 1440
 tcatgtctaa ggcgtctgct ggcggtggtg gcaagggaat gcgaatcatc cgggaagctg 1500
 gacagttgca agccgagttg gagcgggcac agtctgaggc cctgcgttct ttcggatccg 1560
 ccgattgtat tcttgagatg tacgttgaga gcagcaaca tggtgagatt cagctactgg 1620
 gagactcgta tggagaggtt gtctcgttct tcgagcgcga ttgttcagtg caacgacgac 1680
 atcagaaaagt catcgaggaa acgcctgca ctttctgac ggagaagacg aggcaagaga 1740
 tgagtgtac cgctgtgctg attgcaaac tccttggtc cgaaaatgct ggcaccgttg 1800
 aattcgtcgt cgatgctgtg actggcaagt tctatttctc cgaagtcaat gcccgctctc 1860
 aggtcgagca tcccatcacg gaggaggtga caggcgtgga cttggtctcg ctgcagctct 1920
 atgtagctgc agggggaagt ctacgtgctc tacctgcgct ccaaggcctc acccaacaag 1980
 gtcacgcaat cgaatgccgc ctctgcgcg aagatccacg caagaacttc ttccctgagc 2040
 atggcaagat ccatttgtgg ctgccagcat ccggcgtgct ggggccaggc cgtgatgttc 2100
 gctacgaggc tgcagtacag tcaggctcct cagtctcgat atatttcgac tctatgattg 2160
 cgaagattgt cgtctgggca ccgacaagag ccctcgctat agagaaaatg gtcaaagtcc 2220
 tcgcgcatac aatctgcgct ggtgtccaaa ccaatcagct tctgatgcag cgatgcctcc 2280

tgcataaggc attccataac cctgcataca caacgtcttt cctcagctta catctcgatg 2340
 agctacttca cgagcctggg ggcctaattg ctgagatacg caagtccctg ccgatagtcc 2400
 cggcagttgc tctgcgtcac ctggccgcct tatctgcgtc tcaaaagcgt ccttttcaga 2460
 atgtgcggcg ggcgttccga aatcagcacc atgaccoggg caatctgcag tatgatgtcg 2520
 ttaccatggg cgactggccg tactctctac cggagacaga cccgacgaca ccaactcatgt 2580
 gcgtctggac cccggataac accggggccat ccgccactca agaagcacac ctgcttgcta 2640
 ttcttgagat tgatactca aacgacgtca aaaagcctgc ggggacaagt gcacgctacc 2700
 agaaagttag caaagtgtcg cgagatgac tagtaaactc ctcaggcaca cggtagcccg 2760
 tgaagattga gtcattggaag cctgcggagg gggaccctgc actcaaggaa tcatggctat 2820
 caagcacctt ggaaatcagt atcaatggaa cgaagctcct cgcttacgta tccgtggcta 2880
 tcaatcgact cgaagccctc gcaggggtgc tcaatcgac gcagactgtg ttctgccata 2940
 ttccagegat tggagcgtcc gtggagttca agcgtgacac ctctttatcc tttgtcgaga 3000
 gcacgcgtgc tgccgctagc ggtgagaaca atcaggagca gaggactgtg actgcgccga 3060
 tgccgtgtaa ggtgctgtca acgctcaaga agaacgggga gcaggtcaaa tcaggagaca 3120
 ttgtaatggg gatcgagagc atgaagatgg aggtgacgat cagtgcctct gcagatggtc 3180
 agtttgagac aaattggaag gaggggtgatg ctgttgagga gggaaagact ctgtgtactg 3240
 ttaagtaata tttagcattc gttcaattta atatgcttaa cgagttctgg ttgtcggatg 3300
 gggccactgt ttcccgtaa tgcgttctg caatggctta cagcaggatc agtacgtgtt 3360
 tgtatacagg tagtcacgat tcacgcaagt ctcttctata aaatacccaa tatgtcctaa 3420
 tatctacaac ttgctcaact ttcc 3444

<210> 1771
 <211> 5031
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 1771

cgaggtagag tctgttgtcg gtagatgggg tcgtggtgcc tgggatacgc gtgaagaccc 60
 tcgtcacagc atctctgacg tcgtcgtact tccaagtctc cgggaacgat tcgtcaaagt 120
 ccttgctgta aggttccac cagagacctg agttaactgc cgtgccgccg ccaacgaggc 180

atccggccat ctggtcatta tcggggcagg caatgccatc gctgttcttc cagatctcgt 240
tgcacagacc gggcacgtcg aaacgggtca gatcagtgcc gttaagccag tctggcttca 300
tggtgccgtt ccagagtcag atagaggggtg ggcctttttc gataagcagg gtctttgcac 360
ccgcttcgct gagtcggtcg gcaaggacca ttccagcagg accagagccc acgatgatgt 420
agtcgtacgt gacgttttga gggacaggca cgcctggggg cgtcccgttc ccattatcac 480
caccgccgcc accatcagta ccgcaagtcc cgtcgacgac gttggtcgag agcgaccccg 540
atgtctcgta gttggagggt gcagcgtcgc cgctcagctt tcctaccag atcccccgcg 600
cctcgtgctg gaccagactc aggtcatccg ggcagtcgag gttcgtggga gactcctcgg 660
cctgcgcccc ggcgaggatc agctgccag cacttgctgt ggcgctaccg gagacgccct 720
cgtgggtccca ggcgagacac tcttcgcaac ggaagaggac ctggaacttg tcggcagtga 780
cggtcgacga gatctgagtg agggtcgctg tgccgctgta gactgagggc atagcgtaac 840
cggaggagaa gcggaaggag gtcaagacgg tgctcgtcctg cgcgtaggcg acgagcaaca 900
ggttactgtt catcgaggag cccatagaga gaccgcacca gccggtgaac tcgctcgtgc 960
tagatgagct gcaggactgc cgatctgtca gcattctctg ccttctatct cgcattcctgc 1020
gacattgtca accgggcaga acaggatgac gcaccaggta tccgatgaac tctgtagcat 1080
ccgtatcaag cgcattctca gggagggaga caccgaaggn aaccggcccg acgacgagct 1140
cgcctcgaca gtccagggtg cgaagacgat cccggtgtcg gggctctgtg aaacagttgg 1200
gtctccagac tgggcgaagc atggctggag gactgaatcg ctctgctgtt aatatcaatc 1260
caattgaggg ttagggctta gacataccag aaccagccgc caccagggca gcgaatgaac 1320
gaaggaatga atgcatgtcg gagacagggg gtttaagag aaggtaaaag aaacgaagga 1380
agggaggcaa tcgtcaccag gacgagcaaa acaaagtga ctgcaacctt ggcaaagagc 1440
aattgcagat agtgagcatc cctggtcgag cgcattgggt ggaggaatat atagctggcc 1500
gacggtgagc agtgaccatt ccgagcagcc tcaacctgca acaacaaacc caccgcaaat 1560
gaaacgggca catttaagca cccgcttgat ttccatatcg tcccaggaaa ggagcgatcc 1620
ccttcggcat attgcacggc aagcagggct gcgagtgag gcctctccaa ctccagacgc 1680
caagaccgca ggggtgtcga ccttaaccgg gcctgtctca tcttaagagc cgtctctaata 1740
taggttcatt ccgcggcgaa tacggttctg gaatcatgac ggggtttcca gctaggggtg 1800

ttttatgttg agcttgggtt ggggccggcg tctctatgcg aaacggctct tatggaccgt 1860
 gccccgagtc gggcggttg ggcacgatca cttcagaata aattaaagcc catccaggag 1920
 agagcgaata aggggcgttt gattacggat aagaggctag gctcatcacg ggtggactgc 1980
 tggttaagta gtgatgaatg ttaaaacgat ggagtgatag agcaagaaat atgtacagga 2040
 aaagccagat atcatgcgtg ctatgctccc aaaaataaaa actaaaaatg atacagatac 2100
 ccagactatg caaagaggaa gacgacggga tagatgaagg gtgggatgtt gctaattgtac 2160
 agcgtactcg attgtgcaa gtggtgcggg cgggtggggat cgctctcggc gcctcagcat 2220
 taccgtcggg gtcgggtgtg ctgtcactgt gatttcgggtg attgctgcat gggaggatgg 2280
 ggcccgaact ggatctatcg gcgactcgta gtgagtctgg tcgtggccca cgtagagcag 2340
 aggcactgtg agaagccgag acctggcgcc aaggctaggg tgggtgggga tgctcatgtc 2400
 catatttgaa acggacgagg ctaatcatca acctccctg accggtcacg gcttcttata 2460
 gccataccgc cgggtggtgt ctgcaatcca ccattcggcc atatgtgcag cgtcgctgc 2520
 ccaacgcacg acctctggct cccaaggtgc atcttcggga tgcggacgag acggcgtgat 2580
 cgtgatggga ggcggaggag ggccgcccgc tggaggggga ggggtgtgag ggtgatgcc 2640
 ggggggaggt ggaggaggag ggtgtttgaa gaattcatga ccatcgctc cgacgggctc 2700
 ttcgtcatgc tcttcgggag tattgtcttt gtcatcccga tactcgcgcc aaagcgtatc 2760
 catgagatcg aagaagctga agctcgtcaa cggcttcgtc tcctggggat ccttttcgat 2820
 gtcggtgaac cgccactcga cgtcgtcgat gagcgggacg actatgcgcc actgaggccg 2880
 tgcggccgac cggacggcga gccacgaccc gccagtattc atgacgctga actgccagtc 2940
 ctgcatgccg tttgcctctt ggaagagtgg gcggatgaga gattggccct cgtagagccc 3000
 gcggatgtcc cgtgccgctt gtgtggagtt ggggccaaga gaagaggatt cgatcagtag 3060
 gtcgatgatg gtggggacga tctgaaggga aatgacaggg tccttcactt cgatagatgg 3120
 tagtttcggg tgcgcaaaaa cgatggggac gtggaaggag ccaatgtgcg ggttgctgta 3180
 gggcgtaatc ccgcgctcgt tggggaggga gaggccgtgg tcgcccgcga tcacaggag 3240
 ggtctcatta cggacgcctt tttcctccag gatatcgagg atctgagcga tccagcggtc 3300
 tgcaaaccgc atcgtattca gatacttgtt catatcgttg ttcttgccct tgaaggacgg 3360
 gcccatgatg ttctcgtagt tgtcgtccgg catgccccag ggggtggtgcg ttgttccgg 3420

gagatgggcg aggaagagac gcttattgtt ctctccgcg tcgtcgaagg cgtcacggat 3480
gtactccttc agctctgtat ccgggtagcc atagtagttg acctctttcg acttgaccgg 3540
gtagtgtttt gcacccgggt tctctatgcg ctctttggta tagatatctc ggaagcccaa 3600
tcgtggcgtc aggagatcct gatggtcata ggtgtctgtg accgactgca tccagatcga 3660
ctcccatggc caggtgcggt aatccgagcc gttggtgatg tcggcctggt ggctgagtgc 3720
attgacgacg tcgggcatgc acgggttgta caagtatac ttgtactcgc gggttaaagtc 3780
ggcgacaagc ggtgagatcc cacacaccgt tccggccacc gatttgatgg tatatgtccc 3840
tgtcgtgaag gcgttgctgg cgctgatccc gccgtacgat ttacgctcgc cgtcgcggta 3900
ctgggtcaaag ccagagtcga acccagtcag atactcggcc gtgcgagtga gggtggccac 3960
tgttcgtaca gcactctctg gcatttcctt tccgtcaaac ggtccacga tcttattcca 4020
catgaaggag ccgttgcgca gaggaagac atcgccctcg gtgctctcga gtttgaggag 4080
gatgacatgc ttgatgttca cctcgccgct ggccaggacg tccttttagtt cgtccaggac 4140
cgggtgcctgg aggttcgaca gatgcagcgg gtcttgcgac ggagtataat gctcgcgctt 4200
gttgtgccag tcctgaacc caggcagtgt ctctccggc atccagtccc agttgggggg 4260
cttgccaagc gacgtcttac cctcaagcca ggcgtagtcg gggatattcc ccgcctgctc 4320
gccaacggtt ggacggtgca ttccagcaaa cggcgctatc ggaagggcgc tggagaggaa 4380
aatatacgac gggtagcgtg gccgcacgct acgcaggagg cccagacaaa gcaatggcaa 4440
ccagaccacc agccgtttga tgagcgatat gcgctgcggc ggcctctggg aataatccga 4500
atattcatcc tcctcgctcg tcttgtagtc gtgataatcc tcgacggcga tctgctcgta 4560
gacgtccggg tcgggcagcg tctcgctgcc gagccgctg cgccagatcc gcgacgacag 4620
gctggcagcg cgggtgaaca gcggtctaaa caggatcttg aacggctcgg cgagtatatg 4680
caatacgccg ccgacgagcc ggtgcaggaa aggggcaaca agccaggcga tgaccgtcat 4740
gatcgctcgc acgatcaaga atccggtcaa gcccgtagc agagtgcgga tcgccgccgc 4800
atcgcggtgg aacgatttcg cctgtcgcca attgatctca gcaccggcgg tgacgaagaa 4860
cgagatattg gccgaggcca ttccggacat ggtcagacta acacaaacaa cataattagc 4920
cacgcagtta tctctgaagc agaaaccaag tacctaaaag aatcacgac cagcgccgcc 4980
agagcgtcca gccatcgcca cgggaatttt gggtcagatc cggacgtaga c 5031

<210> 1772
 <211> 2553
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1772

```

atcgccattg ccattccatat ttctgcatac atcatgagca gtgtctcttc tacgggatat 60
attggctctt tcccaccact gccgggtcttt cctgggctaag aaaaatgcgt atccacgcgt 120
gttcttgaca tcatggctgc tgcgtttgcc gcattgcgcc atatataatt tgatatccgc 180
atatttcctc aaagcaagca agcactcagc gccatcgagg tcttccttgg tgagggttagc 240
accactgaat tgcagggcct cctcgcaaca actagtgcag gcattttcac tagctgtatt 300
gcatatgcta gtcacagggg gatgcctgaa tatagaggag gggtagacg cggggagcac 360
ggatatctca tcagcttgat tgggtactatg agtgctacct gtcccaaaag aactgggtatt 420
gcctttcccg ttaaacggag gagagcttgg tgtagagcgc gcggcagtc agtcactctg 480
agcaaaggaa tcgtaatttc gatgtgatgc gtttgttgag ctatctgtta tgcttggaat 540
caccgggaat tctttctgcc gcgaggtctc cggacacaga agcagagggg ggtctagaga 600
acaagccaga ggctatgata tgcttgccaa cgcgcagctt cctagctccg gcgattctta 660
ccgagaaacc gccgtcatga tcggaaagta aactagtgtt agaagcacct gcatttacgc 720
ttgtctctct tctgactgaa gcaggcctag aactaactcc ctggttcgta ctttcgcatg 780
ctctccctct aaccgcagca tgtatacacc taggcctagc gctgccaca ttacagcag 840
taactcgtgc cctcctggat ccgttagcag gagcaacatc gtgggtgtgat tcatggtcgc 900
agtgatgaga acatctttcg ccattccctt tatgcatgca ttttggatcg gctgggcatg 960
taccatgaca agtctgccag tcgcaatgct cgcagccgac catgctgccc tttgtgtttc 1020
gtttcccgca gacatcgcat ttgcccgttg atgcttggat ctttttccac ttgcatttga 1080
agtgatcaga aggtggtaaa ggaggaacag ttgagagaa agtcctggct tctcttctgt 1140
ctttgggtgg cattatgatg cttaaccag gatctgagca ggctggggtc agacttggag 1200
aaaagtaggt aggactagga agtacgcgtg tgtcgtgctc aactagaaat attagagaag 1260
acctgtgctt tggaaacact aagccaggga gactcagaac agtcttcagg aacattggg 1320
attaaatatg atgttgggat gagggaggtc ttgaagatga atgggttgga agaataagta 1380

```

ggagaaaccg catcgaacag ggcggatagt agtgtaaaccg gctcactgaa agccagaact 1440
 acaaagcaac cagctcttac agaaaagaat ttagtccccg gtgttgatcat ccttggtggtt 1500
 ctgaggaaaa aaaaatctct ctatccatgg gcctggggag gtagcaaccg tgagcgagac 1560
 ggatatacac gatctgtctt ttgtttataa gatatggaga aactaagagc gttatatattga 1620
 ttctataggc atatatcagg agggctctct taccctttgt tgagattcaa acctgggtcc 1680
 gggtaaagga gttacttctg caagaaaatg gcgttcccaa ctttaaaaga actcagcggtt 1740
 gttctaagta tgggtacgac atccttaggg cagggaaagc ggaaaagatc ataaagtata 1800
 ttctgatgtt attggggatt ttatttatct cttttcaatc agctcatcat gaaatctcat 1860
 caacaggcgt catTTTTgCG tgaaccaag acttctaattg tctatttgtg agctgtgaag 1920
 atgaaatttg ttagctgagc gctccagagc aggatttatt tccagaactt acggattccc 1980
 tctcggggtt ggggctggat gccacaacc tcggctgccg acttgccctc agcgcgggtc 2040
 ttatcatcct tcatgaaggg gaaggcaaga acctccttga tgctgtagtt atccgtcaag 2100
 aacataacca agcgggtcaat gcccatacc caaccacctg tgggaggcag accatactcc 2160
 aagctagtac agaagttctc gtcgataatc tgagcctcgt cgtcaccctg gtccttcttg 2220
 cgagcctgct cctcgaagcg gagacgctgg tcgaaggggt cgttcaactc agtgtaagca 2280
 ttgacaattt cttttttgca gacgaatgcc taaaacgct cgcagagacc agcgttcttg 2340
 cgggtggtact tggccagagg agacatcatt tgagggtggc cagtgatgaa ggtgggggta 2400
 atgcatgttt cttcaataaa ctgcacaacg agcttgtcaa gcatacgggc gttggtgagg 2460
 ggcggtgagc actcgactcc agtcttcttt aggaccttct tgaggaaactc gccagtttca 2520
 gcagtgtgca gctggtcacc ggggtgggaac ttc 2553

<210> 1773
 <211> 2096
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1773

ctgaccaaga agctcgctaa tgtatgatct aatcatgtca gcgatatcca ccttcagtat 60
 tataatcgac gtactctgtt caataaactt tgtcatattg cgtactgaca ggacatatga 120
 tagtgtcctc agtacgacct gatagaacgc tatccacgat aaagctgagg ataccgaact 180

ttggcgacag cagcttgccg gttcgtgacc gtccaccttc gatgaaacac tcaaaattat 240
 accccttctg cagaattgtg tcgatatacg cttggacaac ggtattgtac agtggatcat 300
 tcccgaaact tcgccgaatc cacatggcgc ctgctgttg tagaaaagct cccacaaaag 360
 ggatattgag gttgtctccg gcgacgacaa cgggcaacgc aatgcctaata cgatagcaga 420
 taatctggag cgaaacatag tcgacatgcg atttgtggca aggcagaaag acgatggact 480
 gcttttctt ggccgcctct tctgcaaccg cacgtagccg cagaatttcc tctactggata 540
 cgtggatgcc tggaaaaatc agcatatagg acaaaatacc acccaatata cttaccctgg 600
 tggtagctc gagtgagaag ctggctagca aggtagtatg cgccgcgaat aaacctcttg 660
 ctctccattt tgcagatcat gttatccaac atctgggtcca ccacctcgtt aagattactc 720
 tcgagttcct tccgacgttg cgtgtgagta cgcgcaaact cgccagtcct gatctgtaaa 780
 agcccttctt tgtcttcac ctccagtcgc gcctctgcga gctcttttac cttctccgc 840
 aggatcggac tcgccaggat atgcgatttg atctgctccg taaaaccaga atagtatatc 900
 ggctgccccaa tgatatcatc gtaggcgcgc cagccggtcc ccgacatcat gtacgagctc 960
 acttcgcga agaagtcgaa cgggttctca cgaaaccgcg ccatattatt gatgagattg 1020
 cgttcgtaa tccctccatc ttgcggctct ggacctccag tgtaaccgct gggatgaatt 1080
 gtaacctgat caccaacgat ttcaaggctt ggggaggatt caccacaga tgacttcgcc 1140
 ggcgacatcg tcgctgagg ggttcggctg cggggacggg cgaaggaacg aggatgggta 1200
 attcaagcag aggaagcttt ggaagtgtca gactttgcag acgtaggagg ttgagagacc 1260
 catgtcatgg tagacgagga ccgtgaccgg gaaacccct ctccgcagca gcagctaaag 1320
 tccaacaaa ttgctgtgat cgaccgggtc gccatttgcc ccagactgtc tccgtggccc 1380
 cgacatccga ggatgctgat cacgtggcta gctccgcgg ctatctttgc ctggattcct 1440
 gcggtgtcca tcagggcatt ctactgtgtg ctgctttgaa cgctgcaaac gtgggcacga 1500
 cagtattaa tatgtcaaga tttgtgtgaa gaaaaacact tatctctgga tggcccgccg 1560
 atttcgtagt ctttcggta caacgtgaat ttcgctggaa cactgacaac cctggcacct 1620
 cgtggccaa ccaagctcaa aggatcgtct ccaaacatc gccatgtttc ggcaagcaag 1680
 actactgtca agtacgggtc tcaacactgt ttattgaatc aagtaatcta attttatctc 1740
 aagatgccag ctgccttctt agaactctta ttcacagtca ctccctccctc gtccgccact 1800

actcgtttaa agtcttccgc gatgtccac ctctccgaag ccttcgccgc gagtcctgc 1860
tctccaagcg cactgttggc ctctgccta caatgggtgc cctgcatgaa ggtcacctct 1920
ctctgatccg tcaggtgcc tccgaaaaca ccgacgtcgt cgtgagcata ttcgttaatc 1980
ccacacaatt cgggggtcaac gaggatctct ccagctaccc gcgaacgtag gacgccgatg 2040
ttgcaaaatt agaagaattg aacacagagg gtagcgctaa gacagaaatc ggtgta 2096

<210> 1774
<211> 5111
<212> DNA
<213> *Aspergillus nidulans*
<400> 1774

cacagcctgc gctgaggtag gcaggccatc aggttcggtc agacaggccg tgattgacgt 60
gaccgtcgga agcaccgcc agcctgcccg ctgtattaat tgctcgtaac ttcttaccat 120
tactctacac tcaaaacact acgttgacga gactttagct ggcccggatg ataatactca 180
agttattggt atccgcgccg cgatgaaaga gaaggctatt atgtctccct ccgagacaac 240
tccacttctt gtgccgggtcc aggtcgctcc ccagcgccac cgatatcctc atgacaagct 300
acgcggagcc tgcagttatt ccctaagtct aatcctcgca gtagcccttg tcttattcct 360
attccctcag gctcttttcc cccgtgaggg cggttcgctc tggtcgtatc ttcttgccgc 420
acagccttac cccaatacct ggccgagcgg caacggcctt gatcaggagg agctccagac 480
cctcctcctg ggtaccccgt ctgcggcccg tgcccgcgaa tggagcaagt attatacttc 540
aggaccccat cttacaggta aaaacctcag ccaggcgctg tggacaaagg agcgttggga 600
agaattcggc atcgctgata ccaagatcgc tacttatgac gtttatctca actaccctct 660
cgaccatcgg ctggctttat accaaggcgg taacatcagc tatgaagctt cgctggaaga 720
ggatgtccta gaggaagata gtaccagcgg tttaccgat cgcgtaaccga ccttccacgg 780
atattcagca agtggaacg tcacggcttc gtctgtcttt gtcaactttg gcacctatgc 840
cgactttgag gacctgggtca atgcgaatgt tagtctctct ggcaagattg cgattgccaa 900
gtatggtcgc gtcttccgtg gtctgaaagt aaagagagcg caagagcttg gcatggttgg 960
cgtggttctg tatgatgatc cacaacaga tggagagtag acggaagaga atggttacia 1020
accatatccc gaaggcccgg cgaggaaccc cagtgtgtt cagcggggta gtaccaatt 1080

cttgagtgag ttgcaccttt tagttcctga ctgcagtga taacaggtat aggcctttgct 1140
 cccggtgacc ctactactcc cggctatcca tccaagcctg gttgtgagag gcaggatcct 1200
 catcacttta ttccatctat cccgtcaatt cccgtttcca atagggacgt tcttcctctt 1260
 ctcaaggccc ttaacggcca tgggtccaaag gcatccgact tcaatgaggc gtggcaaggc 1320
 ggtggtcttg catataaggg cgtggagtat aacatcggac cttcgccgga tgatcttgct 1380
 atcaacctgt ataatgagca ggaatacgtg actactctc tatggaacgt catcgggtgtt 1440
 attccaggct cgcttcctga taccatcatt ctgggcaacc atcgcgatgc ctggattgcc 1500
 ggcggtgcgg gagatccaaa cagtggctcg gctgtgctga acgaggtcgt tcgtagcttt 1560
 ggtgaagctc ggcgcgctgg ctggaagccg ctccgtacta ttgtctttgc cagctgggat 1620
 ggtgaagagt atgggctact aggttcaca gagtgggtag aagatcatct cccctggctt 1680
 tccaaatcca atgttgcgta cctgaacgtt gatgtcgccg cgtctggaac ccggttgcc 1740
 cccaacgcaa gcccgctttt gaataagctc atttacgaaa tcaactggcct tggtcagtca 1800
 cccaaccaga ccgttcggg acagactgtc cgtgatgtct gggatgggta cattggaaca 1860
 atgggtagtg gcagtgttt cactgcgttc caggacttcg ctggcattcc tagttacgat 1920
 ctcggtttta gccccagcag ccaagaccct gtctaccatt accactccaa ttacgacagt 1980
 tttgactgga tgcagcgatt cggcgaccct gattggcttt atcatgaagc atgcgccaag 2040
 atctgggctc tggccgccgc gaagctagcc gaaactcccg ttttattctt taatgccact 2100
 gactacagcc ttgggttgga ggagtatgtg gatcggtatca gacctgctgc ggacaatctt 2160
 ccgaacggcc tgacttttga cttcggtcct ctctacgaag cgattagcag gttgcagaag 2220
 acggcaattg agttcgatgc ctatgcagcg gacctgacgt cccagctcac ggaggagctt 2280
 ccatggtatc tctggtgga aaaagtccgg ttgttcttcc tgatccatga ggtcaacact 2340
 aagtacaaaa atatcgaacg ccaattcctg taccagcagg gattagacgg acgtagctgg 2400
 ttcaagcacg tgggtattgc ccctggtctc tggactgggt acgccgggtc ttacataccc 2460
 cggatttgtg gagagcctgg aagctggaga cgtagctaac gccgcggtaa gtggctaatt 2520
 cagttgtctc cgttccatat gagtatgcta acgttaacat caacctagaa atggcagtat 2580
 atcgtcattg agcgcgtcaa ggctgcaaca aaactgctcc agtagaaggc gctctgagt 2640
 tgcgtgcatg aaggcctgct tagccaagca gggatcgaga cccatcccat gcagatacga 2700

tgaatcacac agtcggcagt tgtcgaatcc cgcgaaatgta caaacttagg cgccccatct 2760
gaaatttatt gagccatctc cattgagacc acttgtctaa ggttcgatgt atgcagactt 2820
attagccagt tgatatatat atatagagag agagagcacg tcgtcttcag aaccggcgcg 2880
atcggtttct ggggtacaac atcgatacgg gcgctcggat ctctgtaaag aaaaaatgct 2940
gtgaaacctc agaaatggta tgggttgatt agccgggttg cgaatgcagt caccttctac 3000
atcatatatt ggctttcttt cgcagatatt aagacttcgc cggcttcaga ggtacggttg 3060
ctggggcatt gtatataaac aacctccatc ggctcgactc cgctgctccg cttaaagagt 3120
tagacaatct caattagcag ctggcaacgg acagattagg acccaagctg tagaaagaag 3180
cggtatgata agaggaggca ctcaccatga atcaatctca tccaaaagtg aaggatcgca 3240
aaaagagggg aagatcactt gacgcagcct ggctctctgt gcggaaaagc ggcagagcag 3300
caatcacgac agcttctcca agtcttgagt ccttagctct agactttctt cttctcttca 3360
cactatcttc tttttgcctt cccattttta ttttttattt ttgttcgttt ctgttttctt 3420
ttcaaaaagc ctcgttgtcc gaagatcttt agctgtctcc acagcatcta ctgccttctc 3480
agttctctgc tgctctttga atgcatgcaa gcaactccaa gctgccagtt cggcagcttc 3540
tcattctctg taagaggctg accgtgcccc caacaagtta gatcttctgc taaaggctgt 3600
gcgcgcacga atatgtcgtt ttgcagaacc tagtacgtga tcgagccttg ccctcagttt 3660
caagacacgg ctaaactggc cttatcggac agtcgccgtg acttcgtacc taccgtacct 3720
tgtaggcttc tctgttcatt tttccttcgg ccctagtcac tgcgctaacg ggaacagcct 3780
gaaatgattg aaagcgtcgg cgtcccgcaa tctgaagtcg caaaatgggc gggctttacc 3840
tcggccatct cgtccttttc ccaggccgct atggccgttt actgggggtac ggcttcagac 3900
cgtttcgggc gcaagcccat catcctgctc ggactcactg ccaccatggc cctgtctcta 3960
gctttcgggc tgtcgaaatc gctgcctatg ctcatcacgt gccgcggtat gatcggcttc 4020
atgaatggga atgttggcat tatacgcaact atgggtggcag agatgggtaca ggataaggag 4080
ctgcagccta gagcgttcag tataatgcc atgggttgga ctattgggag ttttttgggt 4140
ccatcgtttg gagggctctc tgcaaggccg acggagaagt atcctgagat ttttggccac 4200
tcttggtttt ttaaggagta tccgtttgtt ctgccaataa tgggtgctgg gtttttcttt 4260
attattggta tctcgaccgg gttcttgttt ctacatgtat gttatccctt ctatgttaga 4320

gcgcccgttaa catgggttagg aaactctaca cacaaaaacaa gggttatcgtg attccgggtct 4380
 ggtccttggc cagatgctca ctggcctttg caccggtaat tgccggaagg tcacaaaaag 4440
 gttggaggat gatgagacga cccctttgct tggggagcgc ttgcctgcat ccaaacacca 4500
 gatcaaggcc gaagtgaaaa agcacagctg gagagagggtg cttaatccgc agtccgtttt 4560
 aattctctta gcatacaccc taatgtcagt gcacacgatg gcgtttgagt ctgttcttcc 4620
 agtattcctg cacacacctg tgcagcacct ccaggacaat ccagacgtcc agctgccttt 4680
 caagttcgtg ggtggatttg gcttgtgtga gtacctagcc attcgccctc taccctacca 4740
 taaattaact cagtaccttc agactcccag agaatcggct ttttctacac cataacgggc 4800
 tgcacggca tagtaatgca attctacgtc tttccctttt gcgcaaacgc tttcgtgtcc 4860
 taactgcgta aagcctagcc gccgttttcc catatctacc cctgacgcct taatagcgct 4920
 tgcccggatt tttccgagaa tottatatgg ctttaatttg tccaactacc gatcgatttt 4980
 aacttccggt ttacaatttg ttaccaattc caaggtggct agtttttttg accttatggg 5040
 tttcacagta taacccttg gaccccggtg gctgcatctg gccatttttt cttgggtagg 5100
 ttgttttaat t 5111

<210> 1775
 <211> 4663
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1775

aaaatataaa caggaagggg ggacacagta ataggaagcg aaaaaaattc actttataaa 60
 aataggcttt aaggggttcg tcccccaag tacaactttg cccaaggtaa tgaaggccgc 120
 cataaaaggg ttcttttaag ttggctcagc agccttgagg gttacacaaa aggggcaaaa 180
 ctttttagcag gcgtcctcga acggttctaa cggggaagaa agcttcaaaa gccctaagtc 240
 agatggtgca tggccaaccc ccgttttagac aaagtgggtg agtggatcac aaaaaggatt 300
 gttccagtga cttcattcta gcacctattt gcaggttcgg tatttgctgg atcttcatga 360
 acgaaaagac cgctgcaggt aatctcgac aacggaagac aactcgtgaa aatcttctgc 420
 aagccatagc ccctccttgc gagcgaagaa aaatgcatga ggaccaagac ttacgctatc 480
 gtgtatctat atggttcccg gcattgccgt ccgtaacaaa ggggcgcagc cgagggtgtc 540

cgggctcccc gctcgttcat ctcagatgca tgcttggttac atggaagagt cgatcgtcta 600
 aggcgaggtg atattgagcg aggagtctat ttagttttga ttctggtact tcaatgctta 660
 tctgcggtt gaagcttttt taaagtcaat ggaacgagct tgttgaaagt ctagaacaga 720
 ggaccttgag cattagctgc agactttcca atcctctccg ttctctgacc gatcatcata 780
 gcctctcacg catctcatth acagacaaat tgccaccaa tatgaatgtc cagaaccttg 840
 gaatttcctt gccttgctga atgggtgttt gaagaataag taggtgtatg catcgthtat 900
 gatgtggcat ttagtggtga agttatactt atcgaacgga tgcataagta aataagcaag 960
 agaacaattc aagagatgca ttaaaattca atattaaatc gttgttgaga acgccttttt 1020
 ctgcagatcc cgtctatcgc gtgttcatca agataatatc ataatgtgat ggtagcgcct 1080
 tttccacttg aagagtaatg taagtagaat aagcaaagca aagtctaaga cgthaagtca 1140
 aggacaacgg gggatatagaa ggttgaatcc taagtaatga taatagatga agtcgaagag 1200
 attttattgc caattggcga gagtagtgcc agagggacat ttatgagcgt ccagaagtgt 1260
 aggtttgctt ggggaagggg tagctgtgtt attattagca tgagtgtctc taagtgtctc 1320
 tgatattcaa agagggaact cacgaaggtc ccaactcttg gatgtcaac ttcgagagcc 1380
 actggccgag gtcgacgctc tcttcaaggg atttgccctg cacaactccg gcgacgaaac 1440
 caccggcaaa agcatcacta gagcgcgaat cgtcagatgt gttcagcgta gccagcttga 1500
 aaacttacc agcaccgttg gtgtcattaa tggcgctctt cgaaatttcg tgcacaggga 1560
 actccttgac ttcgacttca ccgctgggtg taacagtagc ggtgatggtg ggagagtg 1620
 cctgggtcac aacggcaatt cgggagcggg tgggtgttctt cttgggcagc tgagccagct 1680
 tcttgcgaat ctcgacaatg tcggtggtgc ccattcgtg gctctcggcg taagcaacag 1740
 cctctgtctc gttgcagaat gtgtagtcgg ttaggggag gacactgtca agctggctct 1800
 tgaagaactg gggaatgaag ggagcggaga gagacagcat aaagacctaa tgagtcaggc 1860
 ttgattagcg gagtctcaag ccgtaagata cggaccagat gtttcatacc ttgttcttcg 1920
 cagcggcctc ttcacctagg gcctggatcg cggggacaca gactgtcaag tggtagccac 1980
 caacatagta gtactgggcc ttctcgacaa gcgaccagat gtgaggctgc ttgagatggt 2040
 ccaccttgta ttcgttggct gcagcaaggg gagtgcacat gctgcggttg tggccggtaa 2100
 taatgacacc gcacttgcca gtgggctgag catcatcgac gcggtactcg gtgtggacac 2160

cagccttctt gcaggcgctc tggaggatgt cggcgctactt gtccttaccg acacagccaa 2220
tgtagagagt cgagttatcc ggaaggatgt actatgagca attgaatcag caattgtcat 2280
atgcagatat cacaaacgaa ggcggattac ctgagcgcca cgagcagtgt tctgagcggc 2340
accaccagca atcagcttgg catcacggtg ctggagcaat tcttcgtaga ggcccatgtg 2400
cttctcttcg gcaaggatag catcggttggc ttgagtcca tacttctcga ggagagagtc 2460
gtcactatcg ccgttattag ttgggcccac tgccaacaaa ttagcgcctt tgttcaacat 2520
acccgacagc ttggatatct gagcgaagca caagaagcat cagtaatttg ttgtgccagg 2580
caggttggga taaaaacggc ttgtccatgc aagggatcta ttacgcacc cagaaggggg 2640
ttctccaagc agaggagagg gtagccttgg ggagcagcca taactgttaa ttctccgcac 2700
cgagatttct ttttcttaaa aagaaaaaaa aagaagaaga agaagaagaa tgtggtatag 2760
actcaaaaga gggaggaatg acaggatgag aggagagtga gagggatggc ggggagtcgc 2820
ccggcctaaa gaattactat ggaggggcag cagatgaaca cctgaaactc caggccgcaa 2880
tatttcatcc ggtgcagccg ctttgaggct tctgattggc ttgggggagc accagaacat 2940
catctcagtc ggagtccgga gttgcgcatt cttctagtct tctgccctga agaagacccc 3000
ccaaacaagt acgagtctct gggtccttcc catgatacat gcccaaatg tcagatcacg 3060
ctattcaagt cgcggaaacc atccagacgg catccgtcaa ccgagcgcca tccgctgccc 3120
gcgacatcaa caatccgacc tcagccccgg agaaggccgc agtcgagctt actccttctg 3180
atgctgacag cataccttcg gacctcgttg atccccatcg agcactccgg ccgatctcgc 3240
gccgacatac gctccctccc ttacctgatt tacggttcga gcagagctat ctttcaagcc 3300
taagaggcgc ggatacatgg gggcgggtag cgtggatcac catcagagac caggtacgga 3360
cgctcttct agtccattcc caaatacttc gattggaatt gtttaagcact ccaaaaaggg 3420
aaaaccatgt ctgactcaac ttacatctag gttctgttac cgcttgttca aggaacgctg 3480
tggacacttg cgctctcggg ttggcgattc tggaaaccgta cagcgtccct cagcgggcag 3540
actctgggta gcagggttag gagatggtgg tatgaggta acaactggaa acttctcct 3600
cttatatcga agaatcccaa gacagcggcc gcgcaggtag aagacgtatg tggccacgc 3660
gatgttttca aggttgactg actggtttcc gcgaaggatg ctgacactga gggagtctt 3720
acagttctat actgcgcaat tttccaatgc tggcgccgat taaagccttg cttgttgtat 3780

tcaaaggact aagtgatggt catttctcgt gtttggcatt cctggcggtt aggttgcaaa 3840
 cctttgttca atttcgctca tatattaagc aatatttatt acttcggagt tcagaaggtc 3900
 ctcagaatca catttggtag acatcaaagt acagcatcct tcagcaccgc gctaactacc 3960
 cacttttagat ggtcataata aaaaatcaag catgtctatc aagaacatct ccggcctggc 4020
 actcaagtat gacagcccgt tgccattgag tttcaagatc acaagaattc cccattcaag 4080
 tcacaagctt ttctagatac tgaacactct aatcccagta caacctttat tgcgcccttg 4140
 acaaaacagt accagaacac catttgctta gacaaagtct tgatattacc agacacttca 4200
 tgtaatgtgt aagtggcttt acccagccag aattgttaga ctgtcccatc aggttggttga 4260
 actgaaggca tcgtagtgcc aacggggcca ccaagaccct gtgtggcccc gccacttgaa 4320
 gccagaggag ctgaagtagc aggtgtttcg gcagggcggt tcttgggtgc aaggctagct 4380
 ggtgtttccg gaatggaatc ctggggcgcg ttatccactg gcgcgggctg ttgcaaacca 4440
 gttgtggcgg ccttctgact atcagaggta gtttgtactt tttgttctcc agtattgtta 4500
 tcatcaccct gtttgccgtc cctgagttgg acaacaaggc tcggagggtt cccgttcatc 4560
 accgattcat ctccactcac gtcctcaaaa aaatcgcctt cgaaatcatt ttcgtcttcc 4620
 tcctcgccac cctgccagtc gtttccgctg gactgtgcgt cgt 4663

<210> 1776
 <211> 1651
 <212> DNA
 <213> Aspergillus nidulans

<400> 1776

tggccgtaac acgcgggaac cgtcctggtg tgagacggcg gaggacatcc tggttaagtgg 60
 tcgaggtagt attgaatgta gatgcaaata aagatacagc tcacatcgat ccggaactt 120
 ctgcacagaa cagaggtgca gacaatccga gtaagcttgt ttatgaatac ttcctgcggt 180
 ggacacggca gtgacggcag ggctgagttc ttatgttgga gtgggcccgg cataacatag 240
 catcatagtc ctgcgagagg ctgccctgaa cagggatcat cgcggacttg gccactcagg 300
 aataacctcc tggtttcttc aggatgacct ttgccccgta gcccatgcag gaatacgacc 360
 ggacgaaccg gtgccattga ttccggaata ctgagcctga gaccagggtt ccgagactct 420
 ggttcctcac gcttcgcgcg ttccgcctgt gcatgtgcat tgattgatta ctactggtta 480

tttatccact tcataagtga tcgctcggcg cggtaatgtg tacgtagtga gacgactgac 540
 acagtccagc tgacacttcc aacattgctg cctgacattc caggaatttt aaagaataag 600
 ctattccacg tgatacacc tgagctaata ctcaactgga aggagcgcca agagctggac 660
 agccagatcg cattcaatca cgcagcgact cggccaggct cacctgtgct ccatatcttc 720
 attgcttcac cttcgtttta ccccgggatt gcgtggactg gcttcttcgc atctctctta 780
 catcttcagg tcgcttcttg ctccagtctc cttttccgcg ttttttacct ttcccgcggg 840
 ggatctttgt ggccgcccgc atggcatccc gtgagtttct gcccgttgtt tgatccccac 900
 cactcctatt cctggcctca gctgcagttc ggttttgctc acaacaagtt acccggatca 960
 atccagtga gcaattcatt cgcaatgttc ggtcagccaa tactattgca gacgaacgag 1020
 cagtcatcca aaaagaaagt tccgccatcc gtgcgtcgtt caggaaagaa agccatgatt 1080
 cgagcattcg gtttagcattc acaactatac tctactatat gcttcgcttt gaaccaatat 1140
 ctcatatgtc cggacaggag aaacaacgtc gctaagctac ttacctatt cacactcggc 1200
 gagcgtacac atttcggcca gattgaatgt ctgaaattat tagcgtctca tcggttcgcc 1260
 gacaaaaggt tgggttattt aggcacgatg ttgttgctgg acgaaaacca agaggtcttg 1320
 actctggtga cgaattcgct gaaaaagtga gtggtctctg agttcttcgt ccgctcactc 1380
 gtctgatctc ttcattattct agtgatctca accactccaa ccaatatatc gtcggtctat 1440
 ccctctgcac tttgggcaac atcgcttccg tggagatgtc tcgtgacctg ttcaccgaag 1500
 ttgaatctct cctttccacc gccaacccct acattcggcg aaaagcagct ttgtgcgcta 1560
 tgcgcatctg tcgcaaagtt cccgatttgc aggagcactt ccttgaaaag gcaaagaact 1620
 tgttgctcga taggaatcac ggtgtccttc t 1651

<210> 1777
 <211> 4121
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1777

ggactgccta gttttgcccc aggctcacat gtcatccaac ccggcgtctc atagcttaca 60
 gaggcgatgt tgtgtgtttt cacggccttc cacggggggc gccatgggac atcagtcatt 120
 tttcacacaa gttccttcag ccgctggagt tcctagagat ccacgacctc tccgagacag 180

atctttccag gcacgcattg cgcaggaact gcttgagtat ttaactcata ataattttga 240
 gcttgaaatg aagcattcac ttggccaaaa tactcttcga tcgccaaactc aaaaggattt 300
 caattacatc ttccaatggc tgtaccatcg aatcgacccg ggttaccggg tccaaaaggc 360
 aatggatgcg gaggtccac caattctaaa acagctgcgc tatccatacg aaaagggtat 420
 cagcaaactg cagatagcgg ctggtggagg tcagaattgg cctacatttt tagggatgct 480
 ccattgggtg atggaactag cacaaatgat ggatcgattc gccatgggag aatatgatga 540
 agcctgcgcg gagatgggag tggacgtctc gggagatcga atcatcttcc ggttcctcac 600
 aggcgcctac catgattggc tacaaggggg agaggaagag gatgacgatg ctgctgcgca 660
 aagggtgata cccacattg aacttatggc tcaggagttt gagaaaggca atgagaagta 720
 cgttcaggaa atgcaggttt tggatgccga aaacagggca ctacgcgatc aaattgagga 780
 gctggagaag aacgccccg atatggctaa gcttgacaag cagttcagaa ttctcgagga 840
 cgacaagagg aaattcgaag actatattca gaacgtgcag ggcaagatcg agaagtatga 900
 gagtcggatt gctttcctgg aggacgagat cagaaagaca gagtcggagc tgcaagccgc 960
 agaagaagaa cgggcgggac ttcaagctag cgtcgatcaa caaggcctaa ccattcaaga 1020
 tatcgaccgc atgaacactg aacgtgaccg gcttcagagg agtcttgatg atgccgtcag 1080
 tcgtctggaa gagacacatg cgcgtgtgat ggccaaagag tccgaagcca gcgcgaagct 1140
 cgaggattta gaggaactcg tcaagaccta caatacgctg ggataccaga acagtctcat 1200
 cccgtcaact gccgtcaatg cgaacggaca agaatatgag ctgggcctaa atgtgaacga 1260
 gcgtagtttc tccacatcgc agattggtgg cattcctagc aggatctctc cagaagcaga 1320
 taggcttcta gccgagcctt tcaactggcta tcatccagca catctgttga acttggacct 1380
 tcgaggtatt gttcgcagta atctccaggc actccgcaag gagataaacg agcggagaaa 1440
 gcgtggtatt gacgcggatc tggaaagacg gaacctgttg gacaacatta aagaggccat 1500
 ggatgagaaa cggagtgaag tcgaggccct ggaacataag cgacgcacag cggaggaaga 1560
 atttgagagg ctcaaagagg tgacaactac ccagaaactc gcctcagatg cacagattga 1620
 gaaaatggag aaggagctgg caaagatgcg agccacgatg agtgagagcg ttcagctgat 1680
 ggagcagcgc gaaatgaaca ctaacatcga gtatgaacaa ctacactac gggcaaatgc 1740
 actccgggag gaactacata ccaacgtcga gagtatgttg aatgacgtta tccggtttaa 1800

ggtccatata caaaaagggtc tagaagacta cgagaacttt gtggtggatg aagtagaaca 1860
 agagttgggt ggcgacacgc aattggacga ggatgcccc aatgtcaaccg aggaactctg 1920
 aaggccacaa gacgcaacac gatcaccttc acctacacta ctgctggact tcgctcacgt 1980
 gcttttagcac accatgctcc aatacagtac atcgatcccg gctagttgag ttctccggat 2040
 gacactgatg acgtgccccaa catgggtcatg aatgcggtag ttgaaatctg cgctcaactg 2100
 gttggccagc agcacttgctc tgggggttgc tattgcaatt cctccttctt gaggaactac 2160
 gggggtgctt tctttgatga gcgcccatga tactggtgctc ggatacttag cacctcctga 2220
 taccggcaac atgtgatggt aatcgggtgta ttagcatctt ggtatcgttt ggcgccattt 2280
 tcttgatttt gtggacggga ctttcgtctc ttttgctcag ctttaccttt tttttttttg 2340
 gacggataca tgcttgatg gtttgcttta ggagattatg gacattatgg agagtctgat 2400
 accatttggtg ctttggtttg gtgctatacg gtttcatttg gttatacata ttctaccagg 2460
 tcaactggagt tcaatgtcaa tgacaacata tattccacac cacatccaca tgcccaactc 2520
 ccaggttcca cgcaagctga gtcacaaatc ttccgcgcgt actctcctaa tcaactcgata 2580
 agttctgtcc gagcaggccc aatcaccggc atgcttgaga tatacaccgg ccacactagg 2640
 acgcagggtc acgacctttg aacttacctt tctacaatag cttcggttta tttctcacca 2700
 tattcaaggc ctagatgtta tcgggttggg agggccaaac cacgcgcctg tcttctcaac 2760
 aacgaccata taaagcgctg tgctgccggc cctccgattc ccatctatca ttctcagcag 2820
 gacctcgcgt ctgttctcaa gtcatttac aacttctagt ctaccgtctt tccaccaaca 2880
 tgaagtcctt gactattctg ggtgctgtct cggccctttt cctgggcagg gcaacggctc 2940
 aaataactgt tgtgcgtgca atgccagaac attcattcat gtttgtgtgt tcaactgacag 3000
 atttacagac tattcctcct ttccagatc ttccatccat gtctataccg accttgactc 3060
 tccaaccag tatactctct cttccctcc caagcattgc gattcctacg cttcctacct 3120
 cgcttcccga atctgtttgc tttgctgtcc cgactattcc aacatcgatt tcagtgccca 3180
 ctcttatggc tgccgcacct accgctgggc cagatagcaa caccacgcag gtgcttaatg 3240
 accagtttga gcggatgcac ccgcggcaaa ttgcaccact tggcgctga aggatctttt 3300
 gcttattttc cgaggctcaa atggtgtggt tcaatctgta ctggctccat caagcttcaa 3360
 cacgattgtg ttccggaagt gatatgttac ttttttgctt gatttaaagt gcttgattcg 3420

ctgctcaaaa gttgaatatg agcgaatttg cactgaatgc aaggctatat tgggaataata 3480
 ctgaagccga ctgcgctact tctgtgacttt tacctcaaac atgccccttt tgaaagcgta 3540
 aggtatctac tagatgctcc ttgtattctg ttcagctgga tggagccctg cgctttctcat 3600
 gcttaccggt ctccaaccca ttgacaacct ctctaagcca tacacagata gtagacagtt 3660
 agatccatga ggcgttgagt ctttcgttat aaattttgtc ttgtcctaag aacaagatta 3720
 ccagagtgca tactttgggt gcatctaaag ataagtgcct gaggcagaat tgtcattatt 3780
 tgaacgcagc cgattgggtc cttatttgct tactcatcgc tgccttgga gcccaaaaaa 3840
 gccaaagaaa tcacgacttg agtaggactt tgaacttgcg tgacaagaag ccaattatta 3900
 ctgcgaaaac tcgacccctt ccaccttcta cctcgtcaca cgagttgctt ggtcaccaga 3960
 gtaatccgtg tectacgac tcccttttag cgagcccccc gggaatgcag tgtcaactca 4020
 attattagac atgcgcaaca gggatatcact ccgacggcga caccgagatt tggatcacct 4080
 tgcgctcgcc ttattacctt ccgtcgtgtc atgacaaggt g 4121

<210> 1778
 <211> 1337
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 1778

acttcctcca gccgggggga ggagcaaaaa aaaaagatgg gtcccttcag acatgcccaa 60
 aaacacgtat tgggcaaaaca gtttctatat gggattgttt gcgatccacc ctatagtgtt 120
 cgtgagggtc tctcgggtact tggttccagg gatactagcc gtcgtaagga ggagctcatt 180
 atcgacgggg tcttgcgcat cggtatgtcc tcttctaagg tctagccac gccttgacctg 240
 ctaatctttc ccagtcgacc cggatacatc ccgccgaaga aaccctacgg cttcgaagcc 300
 atgatgaacg atatcctcat ttttcagca cgtactctcg tcaccggtgg gcgtttatgc 360
 atgtggatgc caacatccgg cgaggaagaa gcagaactct ctgtcccgat gcaggaaaat 420
 ctgaagtgc ttagcatttc cgtgcagccg ttcaacaact gtaagtatct tgatgctctg 480
 aacaatccat cactttaatg agcacagttt aatgctttcg atttcttcgt tagggtcacg 540
 acgtcttatc acataccgga gactccctga gggcgtattg tccgacgtat catcggggcg 600

gcggaaggat gatgccgctg gtgtgtcggc cgatgatctg aatgctttca ggagaattgt 660
 atgtccactg tttccactc ttactttctc attaggggca cgtcctaacc tttcgaaagt 720
 acttcatgaa aaatcccaaa agctcaagtc cggcttccca atgacatgca ctatatacat 780
 agcttactca ataaacaccc aatatctgta acacctgtat cccgagatga ggccattgtc 840
 gaacatgaca tctgtggagg aaaaggtagc agcaagtttc gctcatcttc taggctcaca 900
 acctccctt cccttccgt tcaaaccctt cattttcagt aaactcctcc tcaagatcca 960
 acccctctac tgatctaacc ctttcgacct cccttgcaat ctccatcctc agatcagcat 1020
 taagtttttc cgcctcctca tggaccaggt cttctctctt cccccggcca aacatcacia 1080
 aactcatttt ggccgctgtg cccgccgcgc ctaacggcgg tctaggcacg atgtggaagt 1140
 gtacgtgcgg aacgacctga ggggccccga caccttttac atatcatcac tttagcatca 1200
 gatgctcgta cggatatata ggaaaagaga agagtaccgt tattttggac cacgttccag 1260
 ttccagttgg atctgtggta gtacatctgt gatctggctt tactctcaca acacngtnct 1320
 catcacgctc agacaga 1337

<210> 1779
 <211> 3603
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1779

tgcagagccg ctggttacga tttccactgc gcgaagggtta tatctcgagg tatttgcttg 60
 ttttgcgagc gtggccatga tggctggaac ggaggccatg aaattgatgc ggtaaataac 120
 catgtagagg aggtatttgt cgacattaaa ggatttcatg atgaagactt ttgcgcctag 180
 gcggggccgcg ttgaggcagt agtatgtttg gccctgcaat cacttagttc tcatgcaatc 240
 taaggaaggg tacaatgaaa tgggcaagaa tacataggca tgatacatag gcagcggagc 300
 cagccaccga tcccccgcca tgctgagccg ctctttgcgg ctcttgcttc tatggtcatt 360
 cgatataatg gctctctttg cgaggagctg agaagagttc gcgatagcat tatagtgcga 420
 tatctccacg cctttgggaa gtccggttgt tctttcaacg tcagagcgat catcacttgg 480
 cagagacata cacaccgct agagtagttg attattgcag tegtctcttg agcttctttg 540
 agcgtttgaa tctctttcca tgaccaagag cgaacctcat cagcaggcct ccagatcctc 600

gtccaaggct ggactggtaa tgacgagtca tttgaaatat cttcaggatc gcagaagagg 660
 tacacccgat cctcggtag accaactctg gatgccgcat ccagcgcaac agggacctga 720
 gtcgaacccg caaggatgag ctttgcatct gaattgcgca actgatattc gacctctgca 780
 tgatcaatac ctttggatcat aaaacccctc agaaacactg atggacaatg tagttactca 840
 cccttaacac tcgcaccccc cgctacggcc gtaaagacac atcttcctgc aagaaccccc 900
 cacaggagga ccgggaagaa gagagcattg tgcgagtaca gcagcacttt atcgtttggc 960
 tgcagaccaa ggtcttctaa cccctttgca atctgtttca cgagcacttc tgcttgcgca 1020
 aggctgaagt tcttggatgg gttggaggca tcaaagtact gcggggtttg gcgggttgta 1080
 ggcgtgcccc aagaaaagac gaaggaggca acgtccgtga cgggaatggg aattcggaga 1140
 ggagacgtca gaactgtcat tattgatctg gactgggtt ttagatgct ggtagcttga 1200
 ataacaggag aagagtgcag gtacctaaag taaagatagg tgtgttggg taccgaggta 1260
 gtcttctctc tacttcgtct cctcgcagtg attcggctat atgccaggaa agcttccccg 1320
 gggcgaggat ccagcttgct ttcgtgattg cagggtgctt attggccatg aggttttcta 1380
 tcgaatgctt ctatcaggcg atgttttggt gttcaataca actaaatagc cggttctaga 1440
 acacgccctg gcgattccca gccgcaattt gacgacagta acggcctttc aactatttac 1500
 aattgctctg tagaggccct cgccactggc caattcagta atatacatgg acaatttctt 1560
 tagggggtgg agagcaggct tcgtaccact tatgaaaccc ttcagtagcg ttacgcttag 1620
 aagacaagcc ttaagagttt gtgtatagat caaccacgat cccaagtggg tactctttgg 1680
 tttccggaag attggaggct ttgcacacct tcagggcgcc ttgagtaatc tattatagcc 1740
 atattattgc tctagtaaaa gtacagttgc caataagtat aaccaacgct gatatgcaac 1800
 catcgacgcc attatagggt tgccaaatca aaaacaccgt taatgcaata gtctagcagt 1860
 ctcccaacct tgggaatgcc tgaatatcgt cacatatgtc aagtcttatg ttcaatcctc 1920
 accggcgggg agtggacgga gtcaatcctt cccgcggact gcgacttcgg gcccttcgtc 1980
 atcttcttca tctcaaaat ctctctcctc gtctgaagcc acgtctctgtg tctcggcttc 2040
 ctcgtacgag tccgtagcct gggagacgaa actagcccca agctcttcct cagcaatttc 2100
 gtcacgtca agttcgctac cgtcgtcgtc cagctcgccg tcatattcat tgtctacttc 2160
 ttcctcttcg tcggcttggc tttcatcctc gctatctgtc gttgatatgt cgtcaaaatc 2220

tcgaggaaca tccctccaat acatgaaatc ggtatattct tcaccgccag cttgaaccag 2280
 caagctgact ggaggaaaga agtgatccac cagctcacgc atagagacat agctactctt 2340
 gtacttgttc aagcttaaaa ggggccagct gaacctccgc gttcgagtta attgtgaaga 2400
 tcctgctgga cgggatgttc acagatcggg agctgagagc gtccgtaagc ctattgccaa 2460
 agccccgcta gaaaggattc tctttcccg tgaagaggcc gagaatatcc cgcaagcacg 2520
 ccatcttaaa cacttcgggc ttctcaagt agatttcctt tcgaagcgcc gccatcggtc 2580
 gatccggact catgatcgta gggcctttcg gaagcctgta tccgtcctgg caaacgccat 2640
 agatatacga gcgagtggta tctgcttgtc caacggatct actggtgaga tacatgatgt 2700
 tgtaaccggt gttgacaatg tcggtataca acttgccac accagcgtga gtccagtctc 2760
 gaccgatcat attcagcacg tgacccaagg catccgacct ggtgagggtta gtggtatgca 2820
 gacagacagc acaacaaaaa ctcaattcgt gatgggtcca tcaatatccg agatgacaat 2880
 tgggggtatct ccgcgccata gatacatgtt ggccgtacac gtggccttctg tcacactgaa 2940
 ggacatgtca ttaatgccag gctttaattt cagtgccttg agctggctgc ttgtgagccg 3000
 tagcgtcttt gcatagctgc gaaccgggtc tgctggggcg gtgttcgggg gcgattgcgg 3060
 cggcgtgggg attccgggct gcacgtcaga ttctgcgcga tgggtgctgca tctggaaaga 3120
 cgggtcgcga agggaattgt cgctgtcact atggtagcca gggtcagaaa tcgcattctc 3180
 gctcatagcg gagccggggc gcatggcggt gagggctcgt cggcgggttg cggcctcttt 3240
 agcctcttcg ctactatata tccacaagtt tccatgctcg tccgctccaa ttagggcccc 3300
 gatatcatag ttcccttcca gttcctccgc aagaattttg cgtgccacga cttccgcacg 3360
 gagagcatcc tcttcgttac tcttgaacc tgtcatgtcc agcatgaggt cgcgctgtc 3420
 agtaacacgg gagggatatat tcgacgtaga tagtttctgg gacaatgaca tcgcacgtga 3480
 gacagcctct tttagagaga ttggaggtgg actttgggat cgacggatga gatccggatc 3540
 ttcgtttgaa ctggctgatg caggccgctg tagctggaga ctataatcgc ccgtactggt 3600
 gcg 3603

<210> 1780
 <211> 2530
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1780

tgttctcgta cagcaggatc tgcgtaaagt acgttcgtta atactgcgag cctttactag 60
tagagctgac gcattcgatg ccgagtacta gtgttgacc aatcacactg aaaagtcagt 120
caaacgtgtt tgatttagaa gcaagtccat aattcatacc atcgtggacg aacagccctc 180
gttgtgttcg atgcaatagt caccttgaca attttggcag ttccgttgac agtccaactt 240
gcatgcggcg cactgaacga ggttaataga ccacatatat caatttggtta catcgcttac 300
cggtggcccc cactcccagc agtctttact cactccaggt ccgaaccctt cattgccagc 360
acggggctct ctaacagctg tctgatgagg cgacagtttg ctctcacac gtccggggcg 420
gggaagacag ctgttgcaaa accacttatt acaacgatga caccacctat cggcgaggca 480
atcggcgcaa cgagcgatca gcacaggggtg ctaccgaag acgagtgtctg gccgttttgc 540
tgcagccaaa gatgacgaat gaaatgggtg tgggtgtgaga aggggaaaat gtccggcttg 600
ggattgtccc caaatagccg ggcttcttc agaagtgtgg caaccgtcg aacccatagg 660
accaggggca attgttgca tagctgggtc gagcagccgt tttccaggtt gggcatcttc 720
cgtgctgggg gatacagtgg cgcagaggtc gacatttgtt cgaggaccgc ggcagaggac 780
agcatcaaaa gcaatgattc cttcacactt ttgaagagtc tctgcccaac cttcctcaat 840
gcgatgcttg agcagtttac cggacgagtt ataccaaacg ttttgacgct gtttttctt 900
ttggttctgt gtgggaggca cgtcgccgag cgtgcgttga ctgacgcact gtgaactcca 960
ccaatccttg tacttgctcc gaactgcagc tcgagggcgga tccgtgggag tgaagtagta 1020
gataccttg atgcgaggcg taccggcggg ccgcgtaggc cgaactgcat agttgagtac 1080
ttgcatgagt ttccgctcat tgagatgtcg acattctcga attgacagta gactcagatt 1140
gaagcgggtc gacagcacca ggtccgaaac aagatcagct ggaacgggca ggccatctaa 1200
aataagcgtc cgtacatcgc tcatgatcga gcttcgctcc aaattggcaa agatgcctct 1260
gagaggcca gagtagaatt catcttcagt cagtgattcg tctatgcgct cggcccgcca 1320
cgtctgacca ccacgggtcaa tcgggggctg atcagtcaac cgagcgctc gacaatgaga 1380
caaatcaagg tgtcggaaca catatggcgt ctccatgatt agcgagcgca caaagcgga 1440
agttgccgac agggccagga gagtacctgg agtgagatat ggcaccaagt gatcgaggat 1500
caagccattc cctaaaacat cttcgatcga ggttggcttt cgctctacca ccggttcagg 1560

ccgctctttg acagtttctt cctcatcact gagtcaatt tcgcgaacga ccggaacaag 1620
 cccaattcc ttgggggtca agcggcgggc gccatagaag aagtcaggag caaagctaatt 1680
 gagattctgt cggttaagcgg ccacggctcc aacagccagt tctcggccac gattaatcat 1740
 taaaccggca tttggttga tctcctgtag agcagctctg gctttgacga gctcggtttc 1800
 gagaaggttg atggtggatt gaagaacagc agacatgttc tttttgttgt cgggatcgat 1860
 gctagtgacc aagacagacc acagtgttc tgacatgcta ctaatgtatc aggttagaaa 1920
 gcaacaacgg atctcaaaaa gaggggcaaa ttccgggtccg cgatttgttt ggttgggaaa 1980
 tccgtggagc gctccacgga atattgtgcc ctatgcgaga aatatatatt gctgctgtaa 2040
 accgggtggt ggattcagac gtcgaacgga gtcgtttgtc gaaatgataa actggggata 2100
 atagtaatga gtggttaataa gcggggaagt acgaagtata aagacccgat atggggagag 2160
 aaaaagctac tacggaatag gaagacgacg gagttgggaa gaataaacct aaggatcagg 2220
 gggtgccgaa agcttcaccg gacgacaagt cgggtattac tccgtatatg aaaggatcct 2280
 atttatccgt atgatgtcct ttttaagata tgtgataatc ccatccgcaa aagtactccc 2340
 tacaacgtag aggctgcaaa aagcaagcca acttggcaca gtagtggaat ttactgcat 2400
 aatcacgact gtggaaggtg atacagcagc cttctagcca attcaagcac tgcatatctc 2460
 ctgggggttc ggagtacaaa tctgtactct gtacagtggg gtagaaggcg aggtggaaaag 2520
 agagtatggg 2530

<210> 1781
 <211> 2339
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1781

gccttccatg gcaaaaatat gtacctcagc cttatcaaag acaaccttat gggaaaaact 60
 taatttaggc gccagattca acctctggtc ccctatctta ttatgaaaat tttcatccac 120
 aacattgccg cgagtgtttt ttgtgcttaa acaacggtaa aggcaggaat cctagattga 180
 tatcagctca caagttctga ctccggctaa atccttgctg gccagaatca ccgacccag 240
 ttcaataaaa attgtttctc ggccggaacg tgctttaagt tagatcctca atagcctcac 300
 tccgttcccg gttccggtaa tcaccgcgcc agaataagct agcgctatcc ccaggatttg 360

tcgattaaag atgggcccag atccgggtct tgctcaggaa ccgggttggt ggcataatac 420
 ccgaataatc tataacttctc ttggttcgac ggagcttgag gcggaaattg cggggatacg 480
 tagctacata taatagtctt aatactgttc cacaccgttc aagtaatttc cttgtccatt 540
 gactatatag accaactccc ttagtcatga ggctcattca cgctgtgctt ggtcttcttg 600
 ccggtgcggc tcccgcctt gttgcagcca gccccgcagc gccaatcggc aatggccgag 660
 accaggtatc taaagcagta ggccgacact ttgagattga cggcaaagtg cagtactttg 720
 cgggtacgaa ctgctggtgg ttgggcaatt tgctcaatga tttcgaggtc gagcttgctg 780
 tctctcagat tgccgaagta cgctccaac atgacggata tcggatcgag tactgatgat 840
 ggcagaccgg gtataaagtc gtccgaacct ggggcttctt cggcgtcaac gatccatcca 900
 accccggcca gcctgtctac taccaggtcc tgaatgaaag cttgtacgag ggtggcttgg 960
 ggatcaacta cgggtctaatt ggtctgtctt tcatactcct tcgttcacct gcaatcaagc 1020
 gcagccctaa cagacatctg aacgcaggca tccgccgcct cgacaccgtg gtctccctcg 1080
 ctgagagata cgacatccag ctagtctga cattcatgaa caactggaac gactttggcg 1140
 gaataaacat ctatagcaac gcattcggca gcaacgcgac tacctggtac acagacaaga 1200
 aaagccaaag ggcataccgc gagtacatca aatttatcgt caatcggtag aagggctctt 1260
 ccgcgatttt cgcgtgggaa ctaggcaatg agccccgctg caaggggtgt gatccatccg 1320
 tcataataaa ttgggccaaag agcgtcagcg catacatcaa gaaattagac aagaagcata 1380
 tggttgcaact cggagacgag ggctggctct gtccgcccga gggagacggg acctatgctg 1440
 acgattgctc agagggagtc gactttgtga agaacctcga gatcgagacg ctcgactacg 1500
 gaaccttcca cctctaccgc gaatcctggg gttacaacta cagctggggc agcgagtggg 1560
 tgctgcagca cgacgccatc gggaagaggt tcaacaagcc cgtcgtcttc gaggaatatg 1620
 ggactccgct caaccatacg cagctcgagc ggccgtggca gctgacaacg gtcaaagaga 1680
 cgcaggtggc ggcagacttt atctggcagt ttgggactgt gctgccggtg gagggaacgg 1740
 agtggggaga tgtcaattcc atctactatg gaacggaaga gtacgaggtt ttggccgtcc 1800
 agcatgctg ggagatggcc aggaagaagg tgccgcggca ctagagctag tgataacagg 1860
 gtacttgcta tctaataaaa gacacatctc agccattatt agagttcaat aagtggaaag 1920
 gaaaagtfff tcgcaagcag atcgcttcgg gtaagccgtg gttatagtat ttcggcgact 1980

tcagcttgca attttaaatc aactcccatc gccattccc tgccgccaga gacgcttagt 2040
 agcaggcatt ggacgcagag tacgatgcca atggacatga gcggcgcatg tcgataactg 2100
 agttttcctt ggatggtcag cccgaacac taacctttgg gaaccacgtt ggctctaaag 2160
 atatggacaa ccgtccaatt tagcaacgtt cagtcgcagg ctttgagcca acggcgtgag 2220
 aggccgttat cattttgacg gcctggagaa tcgagcttta ccgactgcac gagaccgcat 2280
 ctggctctgt ttcttgattg cagtccagtt cgcattcggt gaaaccggat ccaatagtg 2339

<210> 1782
 <211> 2078
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 1782

tgttcaagta acagtacatg catcagctcc tccgctcgtg gcgttcgcca gttcttagcg 60
 atcagggcgc cggttctcgc tcagagcatt gacaatagcg cgcattcggt ccttcgctgg 120
 gattatctca ttggctcgac ggggtgtctg atttgggctt tgagcttgta cgggctggc 180
 caccgtcttt gtgtacggcc cagggtgggt gcgtcgggt cgtgttcaag gtcgctgcgt 240
 tgacgatttt gactgggcca gtcggagcgg ctgttgagtt gatatgggag agagatgagt 300
 tggatttcaa tgagttgggg ggctgaaaa gagcggcccc agtgggtaag aagcttgcgt 360
 aattgcaaat cggctctgtg agtctgctcg aggcgacgga atgtgtcgca tcgaaatatg 420
 tgtcaggtgg tgagacagca atgtgtggca caacctatac aaatgtcttc tgtatgtagg 480
 caagcgagat ctcaacaaat ttgggtcgcc acttcattg atgatctgtc agtcataac 540
 tagagcattt tccatttcac tcatttccta atacaattaa cagatcctgt tcacctaccg 600
 tctttcacta tatacgcaac atgtcagacg tccttagcag ttgagtctca ctctagctg 660
 tcatccttag gagtgagtat cttttctttt ttatgcgaaa ttctcaggtt tatggaggaa 720
 tggctgaaac gcacgaggag atcgaactac ttggtcactt cacctcttgc ttgctgaaca 780
 cagcctatta gaacggtgca agatagagga cgtctgttga taaaagacag aaagagagag 840
 ttctggggta ggaggagact gtgagttgag actagtatct tgacgccagc gcacaggctt 900
 gaatatcccc agccgactga agagtccgcc cgctaaaata ataaggatat gaggtactac 960
 caagcagtaa tgctttctcc cgtcgggttt tccctaatag ggttttcgat caggggattg 1020

ccggtacggt ggccatgca gcagtatctc acataatgcc cgtccggaac tgtccagctc 1080
 ctcgaaatgaa acgtttcttcg aagaattgct gcgtgaacgc actttgaccc attctccttc 1140
 tccagaacaa ccccaaactc cgtgatcctc ttgcgataac aagtacggcg agcgcatgga 1200
 ggcacattgc cttcgaactt gacctgaccc agcttatgta ccggttgacca agaaaacaac 1260
 acaatgccga catcacttga ccaaatttac ccagctttct gctcgtttat gccccgagtg 1320
 ggcactacat cgacagggtg tgaccagcag tttttatgtc gtcttgtctg ttcctaactt 1380
 gtacttgagt tttttttttt aattttttta ttcttccttt ttttttttat ttttatgctt 1440
 tttatttctt catttctttc tctctttatt ttcctatttt cattgttttc tcctttattt 1500
 tttttttcat acttattttc ttattttcct ttccttttaa tgtacaattt tgtttctttc 1560
 ttcttttttt tatctttact ttatctttta cttattcttt tcttcttctt ctctatcttt 1620
 ttatatctct taattttcta tttttgtttc ttattatttt tttctttttt tttctatttt 1680
 tttctattca acctctctt tctctctatt cttttttatt ttccacatta tctttttttt 1740
 tcttcatctt ttaattatta taaaccatt tatttttttt taatttattt ttttatttta 1800
 tttttctctc ttattttttt tttttttttt actatattta ttttttcctt tttccttatt 1860
 aacttattat taatcatttt atctattctt tctattatat ttcatatttt tttttatttt 1920
 tatcatttat catatattct ccttctatat cttttctatt tccatttaat ctttttctct 1980
 ctttttcac cttttaccatt taactctatt ctctctcttt tttttncacc ctctcctttc 2040
 ctctcctcct cattattcct actatttttt ttttatat 2078

<210> 1783
 <211> 4341
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1783

cgacgtggta gagagcgtca agagcggcac ttgcaagacg atagcagacg ttaagtcatg 60
 caccaaggca ggaacgggtt gtgggtggctg tatgcctcta gtgcagtcca tcttcaacaa 120
 aaccatgctg gacatgggtc aagaagtctc aaacaaccgt atgtgcttcg gccagtttc 180
 tgttttatcg ctaattttgt gcagtgtgtg tccatattcc atactcgcg gcggaacctt 240
 acaatgtcat agctatccgt caattaagaa cctttgacga tgtgatgaag tcggctggaa 300

agtgeccaga ctogctagga tgtgagatct gtaagccggc aattgcgtct atcctctcca 360
 gtctcttcaa cccccacctt atggacaaag aatatcacga acttcaagag accaacgata 420
 gattcctcgc caacattcag agaaatggga ctttctcggg tgtccctcga gttcctggag 480
 gtgaaatcac agccgacaag ttgattgcaa ttgggcaggt agccaagaaa tacaatcttt 540
 actgcaagat cacaggtggg cagcgtatcg atatgtttgg tggcaggaag caggatctac 600
 tcgatatctg gactgagctc gtcgatgccg gtatggagag tggccatgcg tacgccaagt 660
 cactccgaac tgttaagggt agatttatc ttaagtcaat gcaaaccgag ttaacggaat 720
 tcagagttgt gttggaacaa cctggtgccg attcggcgct ggagacagcg ttggaatggc 780
 tatccgcttg gagcaacggg ataagagtat ccgagctcca cacaagttca aggggtgctgt 840
 ctctggtgt gtccgagagt gtgccgaagc tcaaaacaag gagtgagtaa cgtatcactt 900
 tttggtaaaa gcgcggttaa cgtgaatagc tttggtctta ttgctaccga gaagggattc 960
 aatatcttcg ttggtggcaa cggagggtgc aaaccccgct attcagagtt acttgccaag 1020
 gatgtaccac ctgaggaggt gattccgac ctggatcgct acgtgatctt ctacatcaga 1080
 actgcagaca aactccagcg aacggcgaga tggctcgaga gccttccggg cggcattgaa 1140
 tacctcaagg acgttggtct caatgataaa cttggaatag cagcagagat ggagcgtcaa 1200
 atgcaggagc tgggtgacag ctacttctgc gaatggaccg agacagtcag aaatcccaa 1260
 cgtcgcaagt acttccaaca attcgccaac actgacgaga cggtcgagaa cgtggaaatt 1320
 gttaaggagc gcgagcaagt gcgcccact tactggccca aggacggagc caacgaagac 1380
 ttcaagggtc accaatgggt cagcctctcg tggcagccag ttatcaaggc tgactacttc 1440
 tccgacggcc caccgcaat ctctccgcc aatatcaagc gcggtgatac ccaattggcc 1500
 attttcaagg tcaagggcaa gtactacgct acacaacaaa tgtgccctca caagcgaacc 1560
 tttgtcttgt ccgacggtct gattggcgac gacgacaacg gcaaatactg ggtatcgtgt 1620
 ccgtaccaca agcggaactt cgaactcaac ggcgagcagg ctggccgctg ccaaaacgat 1680
 gaggcgatga atattgccac attcccagtt gaggagcggg aagatggctg gatttacatg 1740
 aaacttccac cagttgagga gctggattcc gttcttggtc cggaaaagtg gaaggtgaag 1800
 aaggggaag ctgtggaccg gtttgaggcg tatgacaaga agtacagcgg gatgaaaggg 1860
 aagagagccg gcgccaaggg aattgagggc agcaagccca ctcggtctcc ttcaaacaca 1920

atagactggt agactgacga ggatacgttt tgcgatgtga tattagtatg gtggacatgc 1980
 ttattggttt gcatggcggtt tttctattca ggcggttcta tgcattatac ctagtggttaa 2040
 acaatctatg attatactat actcgaatcg gtaacagtcc atagaacgct gcctacataa 2100
 gttgaattgc ctgcgcacat aaatgcttct ctgtacaatg cagagtacgg agtagggcct 2160
 gatatgggtg atgcctgagg ccaaaacact cgatgattaa actctacttg attggccggt 2220
 gaggttggtta tctcttcgac gcagccagac ccattttccc tccgcaatcc tccatctgcc 2280
 ccgataacac tattaaaaag ggcccattta cctcttaaga tctccgcgga gccaatcaa 2340
 ctctgggttt tgatttctgg cctcagagac taccgtcatc atcatggcac acaaaaacgg 2400
 caccggaacg gtccccgtgg agccgtcagc acatacttgc agtcgacgaa caacaaacag 2460
 ttcaacactt gaacttacag ttccgaggag atcgtggaca tttttgtcat tcttcatgca 2520
 gtgacatcca gatatacgtt aaagttgcac ggaggttgct ttttactgcg tcttcaacgc 2580
 ccacatggac gagtctcgac ccataacagc cagttccgtt tggttccagg ttctaaatac 2640
 ccgaggagtc tgtactgcca aaaggctgga ttgccttacc ggaaggctaa aactctgtgc 2700
 gagatgtaga tccggtctgt gggatcatata cttttcttat ctcgatgtcg ttgatagcgg 2760
 tcagctccat cctcagccac accacatcca cgctgacggc cttgactcct ccgctgccta 2820
 ttagcctgcg gaatatgcgg catggctttg aactcccac gggccagcgc tcccatgaag 2880
 ctcaactgagt ggggtcggac caacaccgtt tgaaggcagc cttgcctatt tggctctgatt 2940
 aatctcgcgg ctttctcggt acaaatacca aagagacatc actcggggtg ccatttctaa 3000
 tcgtgatcgg gttcgggacc ctgatagatt actgcctgat tgttcttgtg ctggctcccg 3060
 agtgtcctag ccctgacgac atgctgatat cccggggaga tacatgacac ttccttttca 3120
 gtcagacatg agttgtttct gattgacgat tgtgcctgtt gtttatatag caggcccgtc 3180
 tctcattgat ctggctatat ccagggataa caatcaagca attgtctagc ctatttgata 3240
 tctttctacg aactgcagtt ccctttcttc taatatcatt cgtcttattg gttaaaacca 3300
 tatatatcct cgaggatatag aatagcacgg ccgatccgtt cttctacaag tcgagtttag 3360
 atccaacttc atccttattc aaccagatca ggccaagtcg ttgaagagat ggacttcgcc 3420
 aagctgctgg tagcctctcc tgaggccaac cctaacaaca gaaaggccct cactattcca 3480
 gtccgaacc cattcaacac atatggccga gtcttcttct tctcatgggt tggcttcatg 3540

cttgcattcc tctcatggta tgccttcccg cctctggtga gtctcttctt ccgacaaccg 3600
 gactgaagga atcctaacag tgaagccagt tgactgtcac tatccgcgat gatctcgaca 3660
 tgtcccaaac acaattgca aactcaaaca tcattgcttt actagctacg taagttccct 3720
 gcatgcaagg acaagacgca gagccagccc taaccctata tcagactact agttcgactt 3780
 atctgcgggc ccctatgcga tcgtttcgga cctcgactag tctttatcgg cctactgctg 3840
 gtgggctcca ttccctaccg gatggccggc ctcgttacct caccccaagg actgattgcc 3900
 ctgcgcttct tcatcggeat cctcgggcgg acattcgctt cctgccaagt ctggtgcaca 3960
 ggggtttttt acaagagtat agttgggaca gccaaactccc tagctgccgg tctaggtaac 4020
 gctggtggcg gtatcacata ctctgtcatg ccggccatct tcgactccct catccgtgac 4080
 caaggcctcc ccgcacacaa ggccctggcg gtgcctaca tcgtcccctt tatcttaatc 4140
 gttgccgcgg ccctaggcat gctcttcaact tgcgatgaca ccccgactgg aaaatgggtcc 4200
 gagcggcaca tctggatgaa ggaggatacc cagacagcat ctaaaggcaa cattgtcgac 4260
 cttagctctg gtgcacagtc ctcccgctcc accggacccc cttccattat tgcgtacgcc 4320
 attcccgacg tcgaaaagaa a 4341

<210> 1784
 <211> 4903
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1784

acacgggacc ggataataga ccagcgtaat cctctgagcc gatactgtaa ccaccctac 60
 gccagtagtt gaaggtcagg cgcacctgga taaattagaa ctcaagtgag actggtagag 120
 acgataaaac atacgtcca tatgacggag atagctgcga tagtatccaa gttgagagta 180
 cgaaggccgg aaaggcgtgc ccaaacagca aatgaacgt tgaatacgga cgggaggata 240
 gaccagaagc gatcgacctg agagtagttg cggttgatct cagagaagac gatgaagaga 300
 acagagagga agatagtaaa tgcaagcgcg gtcgcaagcg gattggtgga aagatagatg 360
 tccttaagag catttacatc ttttgctgca atcgcaggct ggagacgttc agggagcgca 420
 gccacttgcg acagaaatgg tcgcacggca tgggtgaacg aaacgcagtc tgccagagac 480
 tcgacgtcag gaagtggaag cgtcatggtt gttgacgaag cagaagcagg agcagaagca 540

gaagcggag caagaacagc aggcacccga ctgcgaaata gattttccca catagaggag 600
 ataagatact tggtaaatcg attataagga tatagacgca gataaagggg ggaatacgtt 660
 catgaaatca caacaaacaa ggccgagtc cactaaagag ctttaagcggg gtgcgctaata 720
 ccgcattagg tagtaagctg tcaagtgtcg agtcccgtga ccggtgtcgt tttcgcgttt 780
 gctcgcgaac tgaagatcaa ttgccaata atacctatag acaaccccag actgtcgtag 840
 ggggagcatg gtggaaatga ttcttagctc atcaacttct actgtcata gtgtgatttg 900
 cctggctgac tgtcatggcg ggcaccaaag tcttgtcgt ggctgagaag cctgcaatcg 960
 ccaaagctgt cgcacagcac ctatctggag gtcgtatgga aactgtaagc gaatgacct 1020
 acttgctgaa tgtgaactga aaatggaata gaaaaatgtc actggaaatc gatttgta 1080
 gaactacgta ttgtattca atttcgggaa tcaatgggga aacagttctg tcacgatgac 1140
 cagcgtctta ggacacttga caagcttga atttgagcgc cagtacagt gttgggcatc 1200
 ttgccctct gcagctctgt ttgaagctcc cgtcaagatt gctgtcgacg acgtaggtta 1260
 agccgatgtc tgtccatcag ccgtctttgc taagtcctaa ttgcaggata aaaaggcaat 1320
 cgcaaacaac atcatgaagc aggcgacgca tagtcagtac ctggtcattt ggaccgattg 1380
 tgaccgggag ggagagcata ttgggacgga ggtacgcgat caggcgaagg cgggcaatgg 1440
 acgaatcgtc gtcaagcgag ccaagttcaa caatactgag aagatgtagg tagatgcacc 1500
 acccctttca tgtgtgcttc gttaaccgat ttaagccacg ttctgaatgc tgcgaggctc 1560
 ctcatgaac ttgatgagcg gcaagccaac gcagtggcgg cgaggataga gctcgatctt 1620
 aggattgggg ctgcgttcac tcggctgctc acactccagc tacaaaatct tcatgccacc 1680
 ctgacacaga aggttatcag ttatggtatg ccacgccgtc cattttgaaa cgcgctccca 1740
 tctgacagac tactatccaa taaggatcct gccagtttcc gaccttggga ttgtggttg 1800
 atagatatct acgagtgaag cgattcaagc ctgaaacttt ctggggaatt aaggtcatgc 1860
 aactaggga tggatatcaa gtgagcttct tctggaatag agtccacctt ttcgacagag 1920
 ccgctgtcac tattatgctg gagcgtgtc tgatggcaac aaaggcggag gtcacaaagg 1980
 tgaatcagaa gccgacaagc aagtggaggc ccttaccatt gacaacagt gacttgcaaa 2040
 tgatgggaac aaaatatctg cgcattggca gtgcaaagg catgaaggta aatgctctat 2100
 cacgtaaaat gctaatatgg tgactaatgg aacctagatt gcagaaaatc tgtacactaa 2160

aggatttata agctaccac gaacagagac cgatcagttt gacaaaggaa tgcacctgaa 2220
 gaagcttatac gagaaacaac tacctgatga gagatgggga gactacgctc gctgggtgtgt 2280
 tgctcactct ctaagctcta tcaactacta aactgcatta ctagtctcct cggcggcaat 2340
 ttcagaactc ctagggctgg gaggcacaat gaccaagcac atccaccaat ccatcccgctc 2400
 tgctgggtta accccaccac actgactgaa gatgaaagaa aggtgtacga gtttgttacc 2460
 cgacggttcc tcgcctgttg ctgagacgac gcaaagggac aatcaaccga cgtcgagata 2520
 cgttacggag atgagatggt ccacgctcac ggactcctag tcttagaaag gaactacctg 2580
 gacgtctacg tctacgacaa gtgggagagt acccaacaac tacctaacta tcaagtcggc 2640
 gagctattcg aacctacaga agcgaacatg ttgatggaa agacctcgcc gccaaactac 2700
 ttaacagaac ccgagcttat cggactcatg gacgctaag gtattggtac tgacgccacg 2760
 atggccgagc atatcgaaag gataaagagt cgtgaatata ttggcgaaat gacccgagga 2820
 agcggccgaa acgcggtgaa attactcatt cctactcggt tgggtattgc cttgatacta 2880
 ggctatgaag atgttttcgc tgggctcgca gacagccctt ccctcagcaa gccttttttg 2940
 cggaaacaga tggagctgga aatgcgggac gtctgtgctg gcacgaggtt acgaacacat 3000
 gttgtccagc aaaatctgga tatgtaccgg gagttgttca ttcacactca aaggcggatg 3060
 aatatgctga aggctgcatt tcggaaatac attgtcgaag gagaggatgt gtgaagtcta 3120
 ccattcgtct ccgatcgact gacgcccttc taggactggg tcatagtcct tgcggaagtc 3180
 cattgagcct acagtccttg ctgtggacat atacacttaa ctgccagaaa tctgactaat 3240
 tcagatttct caattgaata taagcatgcc tttggggtat attctgctga agcctacgct 3300
 gttctatgag gaaagaatgg gttcttcaag ctttcgagta tgtctgctta aacaaattct 3360
 tctttcgcaa aagaccttgg atcatgtggc tgctagatga agattcttac actacacaaa 3420
 ataattagga acatccattc ctgagatac taccacatcc aacatcgcac gtcctcgcc 3480
 cgcgcggttt aaatcgtcg taatagcctc cttcatcaat gtccatgcac attttggatg 3540
 agataacttc aatatttctt cttcccatth ctggggattg gcaattcgct gttggctgct 3600
 gagctcgata ttgccttgtg catgagctgg atttcagact tattgacctt gggagggcat 3660
 gcttgccggg cttgacaatg ctctcttgtg tatatgggag agatagaaca accctgctga 3720
 agatgactta tactaaacta ttttctcttc cattgctctc cagtcaatct gaatgctctt 3780

tcgcaaagta gtaggaccta gcgtagtttg cggattagca agctcatttt aagtattctc 3840
 tatatcagat agactcagca caagaccatg cttgcgtgag accttgtcag caactgagac 3900
 ttatttcggt tgactcgagt ttacgcttc ttcacagcc ctctgcctc tgggtctcatt 3960
 cggccgcatg aaataaaact cactctctcg ttgccactga ttgatggatt ctatcctgga 4020
 actgaaccta ttcaactggt gttgaatctg ctgcgcgctt ttctcaagag taccgcaatt 4080
 tttcttcagc ccgtcgacag atatttgcag ttgctctatc cgctcatcga taatggcctt 4140
 caccatggcg gcttcccctt cttgcatacc cttgggttga ccgaaggctt cgttcaagac 4200
 gagtatgttc actgctttga ctagggcaaa gaatcttttg acaggggttga gagatattgt 4260
 gataaatggg ctgaagactt tcttaatcgg ataaataacc ttcttgacga ctgggtcgaa 4320
 tgtttgctga actgaaacga agcttccctt gactggtatg agactcttat cagctatggg 4380
 actgagcaat atcttgaccg aagcaaggac cttcttgact ggaccgattt tcttttcctc 4440
 aacactctga cgaacctgcg tatcgatagc catccaccgt gccaaccaaa cccacaatac 4500
 taaaccaaat actcccaaca cgacgaaaag cataactgcg tacgtctggt cagagaaaga 4560
 ttccagaccg tcttgagaga acttcgcgga aactgaagtt gtcgagttcg gtaaaacatc 4620
 ttccagagac acgatagacg agtttctgaa cccgcctgcg gacgacctat ctttctcgta 4680
 gggcaagcgt gagttggtgg aggaagacgc actactccaa gggagctttg acagagagga 4740
 ccaggctgag gccacaacgt ggtggttgac cctggggacc ggtccgcctg gccagatgaa 4800
 gtaggcagcc gagactccga tgagtacttg ggctgagaat gtgggattca tggctgatct 4860
 tagagtattt aagcaggaat gattgtagtg caatgagtct gtt 4903

<210> 1785
 <211> 4456
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1785

cgatccaggt ccacgtcgtc gttgttgctc gggctagggc actgtttgtc gggactaggg 60
 tgaggcttga gcagaccatg ggctgcctaa ctcaactggt agtctgctaa gtcagacaca 120
 catagagttt gctgaacggg gctgactgaa acaacgtcgt attggtctgt atctgacttc 180
 agaatgctat cagtctgtac gctgtactag atcacttggt cttccggcct tccagcacc 240

ccagcacgtc tgccgcactg tccttattcc cttttctctt cttgggacca cgcttctctt 300
tggtcccgcc tcgctctgat tctaggacta tcccctcgtc atcctcgtea tcttcaatcc 360
tactgcctcc aaaaccgtag tccaagtcca tggcgtcgag cgcttcgcgg cgctgcgctt 420
cctcaaggaa cctcttacgt cggaggagcg tttctttgtc cacgccttct tcgctcgtcgg 480
caatgtgata cgacccctca gcagcttgtc gtaaggcagc ggccctcttg agcgcgga 540
ggatggtcgg gtccttggtt agcgggttgg tgcgatgacg gtcactctcc acttgctctg 600
cttcttccc tgtactgcc gttgcgaaat agttccgcgg tcttgccggc tctgttctgg 660
ccgcctccat ggttggttct tccgttgtct tttcttccc gagttcctgc cgtgacttca 720
cttcagctgc cagtcgcct tcttctcat ccgattcgga tgaatcctct gaccgcac 780
cgcccagagg attgtagtca gcacccacgc cttcgaagat atcatcgtct tcttctccg 840
cagtctgggc ggctttgatc ttggcgga cgtcggccgg cacttcatt cctagagggtt 900
ttggcttggg ttccttctcc ttctccgaga cgggatcgcc agcgggtggc gtggctgtgg 960
caggcgccgt ggtccccgct ttatccagcc atctggtttt cctcttcgct ttgccatccg 1020
cgtccgtaat caggaggact tcccttcgcc ggccgttctc gtctgctcg atgaaccgct 1080
tcttctctgg cttcgtatcc ccaatcttct tgaaccgcgc accgagaacg gattctggcg 1140
cttgggcagc tgcaggggca gaagcagccg cctgctcgc tttcagttct cgtagaatct 1200
catcgcgct ctttctctga gttgagtag gcgctggcgg cggcgccata tttcccttt 1260
tcttctcctt tcttttcggc gcagacggca gggattcacc ccccttttgc tcgagcactt 1320
tatcaaactc ctcatccag tctaccttct tctcgggctc atcatcagca gctgctcctc 1380
cgtctccctc ttcattccctc ttctccttcg tccgtcaac atcctctccg gctttgatcc 1440
tcctcagcaa atcccaatcc aacccttaa ccatatcgt actgctcaag tcccctcaa 1500
ccccaagctc cctgcgtgac ctgtaagcg tctctcctc aataagacc tccttgaact 1560
tctcttccag tcttttcaac tccgctcgc gctcagcaga tttggcgctc tcgctctcgc 1620
gtagtcgctc cgcggcgcg tttcatacc caactggtag cttcgttccc ttgggagcag 1680
cggaagactt gaactttttg ttcggtggtg gcttcccgct gcgctcgct cggtattcgg 1740
ctagctgcga tgcgaagtta ggggctgtca gagtgcgtct agacagaaca aaatcaaaag 1800
atcagctctt ggatgtcaca ataaggacaa tagatattaa gcgtgtgaaa acatacgggtg 1860

tcatagggat gctcgagcgc atccgcgagc ccagcaatgc ctgcgctggt ttcgggtgtct 1920
 gtccaccgct atcgctccca ccttgcggtg aagcagcgcc atgttttctt gcatgcgaga 1980
 agccggtcgg actcgcgcta gttgatttgg atgatcggtt attgtcgaga agtagccggc 2040
 ggaattgctc gttgttcatg gtggaaaggt gagtgggtga gatgcgggca gattagggct 2100
 tgaggagttt gagctatata cgtggtagat attgacccga tggagctagt tcacgtgtac 2160
 attgcgagga tgatgcttgg acgcaaattt gtagagtaga taggaggttg atgctgcagc 2220
 tggcaggaac caaatttgcg gaggcggaga ggtaccttag aaagcggcga cgtcagtgtc 2280
 gcattcggcc gtagaagcgc actaacttct gaaagctaca agtataaatc gataccaaaa 2340
 taatcccga acaagtaaac cccaagtttg tagttcatcg attgtatggt attgtgtaat 2400
 gttccagtat ttcagttctt ctactttaaa tttttagagg cgaaagccgg caattgttgg 2460
 ttgattatgg acatatagct caaaccagga acttgagtca tcttgccgca tgggataaat 2520
 acaatcaaat gcaaatccca atagacagct gcagaaaccg tacacctaaa ctatgactct 2580
 tttgcgcgca acagcagcag gaatgagcaa ataaaccaat actattcaga aagcaaaggt 2640
 tgccagaaga agatacaagg tagaaaaaga ttccgtctaa ttttgacaag ccattcgctcg 2700
 tcctcggttc tcccatccac gtatactcat gcacaaataa cgatagatga tgaagaggga 2760
 tcagatagtc tcaaaccctc cattattgat gtcagcctcc atcctgcgac tgatggtcgc 2820
 cggaacacta tgcgacaacc agacgtcgcg aagaagccga tcgtagcggt tctggtttag 2880
 catgagcggc ctggttcggc ggagacccat gtcaacttcg ccgtggcggc cgaggtaggg 2940
 ggcgttgtgc cagcagccgc tctggttgtg gagatagagg acggcgcatc tacggatggt 3000
 gatgaagagg ccgatgtttt tgccgcacct gaagacgaag ggtagtaag ctaattaggt 3060
 tactagagta gggcgaaaac agaatgcact ggagtttatg acttacttca caacatgctg 3120
 gttgcacccg ccccatctgg tgttgctatc ctggcaacaa acggcctggg agcaaaagat 3180
 gtctccacag aagaggcaga tgcttgatc ggtgagctcc ttctttgaat ttgggcaccg 3240
 gcgccggttg gcgagctcaa tcaagctgtc gaagtacttg ggtaggccga ctagttcgaa 3300
 gatggctggg tgcgaaaggc taggccatag tttgtggtct ccgatacgaa cgccagcacg 3360
 agatgcgttc cagtggaaga tccagcctga gatcatggcg tcgaggggct taccgctctt 3420
 gcgagcaggc ttcactgaag caaatatttc gtcaagagaa ggcattattca gaatcttgg 3480

taagcgatcc agctctgacg cgcccacgtc gccgaagcct gtgctgggga actcgacgcc 3540
 atgttgacaca tgaagtaaaa tgaccgcttt tcgcaggaag gttagggcgt agcttgatat 3600
 gaggcggtgt agagcaatga tcacgccggg ggttgctgaa tcctcgccct ctttgacata 3660
 gcctagttca gttggatgcg aagaccctat tcctctgcct acggagtttg ccttgagctc 3720
 cgagaccaca gtgttgaaga actgccgagt gacctcaaac cgttcgtcag aaagttccat 3780
 atctaacaag taatgcgcat caccattctg ggccagctct tccttttagtc ctatgggcca 3840
 gacaatgtac gtggtggcaa ccttgacaat ctacgcgaca tagcacatct gcaccaagtg 3900
 gcggacatca atatccagga caggaagaag ggcaagtga cattcggcaa gaaacacgaa 3960
 cgtgtccttc gcgaatagt gctcgatttg gtggacatca gcgaggagt atgtaccttc 4020
 aaagaatgga tggcccacaa acagctggca tagcttctgg tgatgcatct cacggaactc 4080
 ttccagggac cgactttggt ttccgccttt gctctgtaaa ccaccgactg atgcgtatgt 4140
 caatgcagtt tcagccagga cacgaagggt cgtcaacgtt aattggggta ttttgtcaag 4200
 gagcgtgcag cctggctcgg attcaacacc acgttgagcg atttcaaccg cagcaatact 4260
 gaagccgaag ctctggaata aagagtctgt gtgaataata tcattcattgc ccagagtctc 4320
 tggcggtatg cttaaagggtt aatagatctg attcagccga agggctctgct tcagccgtgc 4380
 gtatagctgc agaagctcag tcatcggcgt atcactggag gccagggatt gttgggggga 4440
 attcggagat gaaaga 4456

<210> 1786
 <211> 4077
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1786

gatcgtttta acatcatcaa caacatcttc tagcacttta tctttgactt catcgttgac 60
 ctcaacaacc acaatctcgc tcacctcgtc cacctcgaca actagggcga ccctgcatac 120
 gacctcgttg ccgatgacca cacattctag ccttcccacc ccctctggct cccatccaac 180
 ctctccgag tcccaatctt cagcaagaat gacccccggc tcacaagccg gaattgtggt 240
 cagcatcctt actcttgcat ttgtcctgat cgcgctgata aactggcgat tgcaccgccg 300
 aaagcgtgct ctgcagacgg ccacccctcg ggagaaatat cgacccccac caaacaagca 360

aaattcaatc tacaagttcg catcgaatct gtacacaagc agtaccctga cactgggtcaa 420
 tgtagctgag atgttcaagc atcagagcag agacagtcag ggatccatca gcggccgtag 480
 cagcagtatc tattctaggc agccaacgcc gtttccgacc ttatcccagg cagacttact 540
 gggctcctac agagggggtc tgtggaggaa ccgtgtgtat gatgcagcaa gtcgtatgta 600
 ttttgctctt tcttccgctc caaacatggc catggacaag gtcaagtcag tgccgcagaa 660
 gcagaaatca gcggcgataa ggaggagtcg ggagtcgtac gagtatggct tttccgagga 720
 ttatctgcat attccccac cggagccagc tgctcttcga ggtgttgtgt caagacttca 780
 ctctaacagt tcctctgctc tacgtcccat tacaaggaag tttaaccac cgcgcccgcc 840
 aaccgacact gcgtcgccaa catggtgcag cacgaacagc cctagccctt gcctagaaga 900
 gtacgatcgg aacacaccgt cacagcagtt ccaaggccta tgcaagacg cagatattca 960
 ggacctagtc aaagtgcgaa gtgtctcttc tggtaggtg gccatgagca atcccgccga 1020
 catcagcgta gattccttgg ctggtcgtct ctcaggagaa aaggaacgcc agctcagca 1080
 ttgcctgaa gaatcactgc cgacgaaga tccaagtaag aacaaccttt ctaagccaca 1140
 actgaagttg ggtcaatcag caattcagcg agagatttca ccggtcaagt tgtcgacggt 1200
 tcaaagtctc cgggttgaga tgaccttgt acctcgtaac gacggacata tgtaagttag 1260
 cgaaggacag cttgtgcggt tggagcagaa attcgatgac ggctgggtaa gtctgctgtt 1320
 ggcattccga taactaatga tctactgactt tcgtgttcag gcgtgggtga ctgtggtcga 1380
 aaccggaatg cagggcctta tccctcgggc ctgtctctcg acctggcccc ttaaggaacc 1440
 ccggccatat acgcccagca gcatctgctc agaccgtggc ccaggaagca cgaccagcct 1500
 ttctcccaca gactcccagt ctgttcggtt ctaccagcgg cattctccgg gaacatcaaa 1560
 gtctggtttg ggatcaaagc cgccgagcgt gaaatagcaa gtattattcc cggcactaat 1620
 atgtccggtc aatcctgtaa atataatact gcatatattc tccatgtctt atgcgtatgg 1680
 tcagaagttg tgtgtatatg ctttatgaa ccgtattcga cgcaatgttt tatccaagat 1740
 cgagcccgat attgcactga gcagcccat gatcatctag atttgtgcca ggcaccgcca 1800
 gtcagtaatt cctagctact cgtactatgg tcacgctgat aagaggctct atgccgcggg 1860
 tgtcattgag tatattcgac tgctcagaca gtggaaatgc agaccagata ttacacctgc 1920
 gcagaggcac cagatggttt ccacatgaaa ctogtctatt tgtcataagt aactactatg 1980

ctgcactttg ccgtttttgc tgctgcat gtcgaatgaa atattgtgct tcagccctca 2040
 gttctaacat caagcggtcg tagtagtggtgtgtgcatctccc catgagctctt ttctgtctat 2100
 atagtactga caacgaaact attaatgtgc aataaagccc ttcaatctta tcttttagtat 2160
 tcttatacgc ttgttgagaa taccggttggt cttttctcaa cacgttgctc gtcagcttct 2220
 ggattccggg caagtggaat tctgtacag aagcggaatc atgaaccgct agcttaaac 2280
 taatcatacc gagctgaact acgtgaagcg gatcacatag gggcaaggag tctccccgaa 2340
 cccagaaatg ctgttctcct gtactttgtt gaccggtcg ttaggcgcat tccacatccg 2400
 atcgtcagaa tgcgtgttac aaagttagct ggttaaccgg aaggagcagg ggaaaaaatg 2460
 gaaaatgtac atcattaacc caacatggtg gatactgctg ctgtcattct cgcagtcaca 2520
 tgctccgccc aagaagacag catcaccagg ctggcgctct tcataagggt attttctgtg 2580
 aggtatgtg agcgattttg atcgaatgtt acttgctgca gacgtacttg taccgaagt 2640
 tctctcgct ggccgagtag atggaggacg tgacgaggag gccctccgtg aagaggtcac 2700
 ggccggttac ctggcacact gccagcaga caaggccgga acagtcgtat cccacgtcgc 2760
 cgtagtcata tgggggttggt tcatcgctgg gaccgtcgca agagccgccc cccaggcgt 2820
 agggagtccc ttccgcggtc agagctttgt caaggatagc ctggcctacg gtgccctctg 2880
 cagatggggc ggccctgaca gcgcaggcga ggaggagac catcgcgaga tacttcatga 2940
 tagcgttgat ttatgatcga gtttgatgag ttagagtctg tcgttaattg ggagtcaata 3000
 cagaattctg gttccagtct atcgagacag tagccctttt atatctactt cgctggagta 3060
 ctatcaccat catattcgct gatcattatt aggtgagat atatttaaca agatcagcgg 3120
 ctttcacgtt acattcgct tacaattat tgaacaggaa ttgattgtct cttggtgtcg 3180
 tatcgctaaa atgatctacg ctgaatacga gaaaccaaga tcgagataac gccgttgatg 3240
 gggccgctg aacgggaaag accaagccca atggctagac gagggtgat cttcgctgat 3300
 tgctactctg ctgtgacaac ggcagggccg ctaggatatat gagataatgg caagggcgca 3360
 caggaggtca aggtcatccc cagcatccc ccgacgagaa tagtaacaac taattctggt 3420
 tatgagggca ccttgaaagg catttgtag tagtttcgaa catctcgac cagcaactta 3480
 ctaaacttag tactcataga catttgcaa cgacttgga ggaattccgg acagcgagtt 3540
 ccctaaatag tagcaaattc ctgaacaacg taagagctcc atttccagtg gaccagtagt 3600

cccaggcact tgtcttatca tccagttatc ctatgtacca agtaggaact cgactggatc 3660
 ttggagggtcc tttcatctgc tgtagcaggt gcttcacaga cgattgtaca agggttgaat 3720
 tcgtctacct ctccgctcaa gggtcctctc gtcttgctga gaatcaattg gatgcaagtc 3780
 gcagcatcaa gagcacgcta atactcttat caaagcggag cgtagaaggc aagaagggtc 3840
 gggcttatct tgttgactga cctgagttta atgactcctc taaagtatag cttcgggtctc 3900
 tcttcccatc atattgcatt ttaacacagg caaatgaata ttattcagca gatctacttg 3960
 cctgtagaat cacgattttc tctttgcatt ccgccatata gaagcacacc atactccacc 4020
 atgaccttgc gttgacgcca gaatcgacat gtcgggaagc ctttaccaca agagcgt 4077

<210> 1787
 <211> 2400
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1787

gatatgacca tcaagtcgta agttgattca cgacttagaa gacttcggaa tgtgtgccgc 60
 gcatgcaacg tctgaatagc aattgcatat gggaatacca tggctgtgga ttctttctcg 120
 atcgcaacca cctcatcaaa gctaatagaca agcgtggtaa cccatcctaa gatattgctt 180
 gaaaagcaaa tatggccctc agaaatgtaa atgcgtccgg ctaagatgat ctcacgttgc 240
 aaagcacagc tataatcttc aataaggtaa tcgtcttctg ggacactgcg gaaaagctgg 300
 tgaaagtccc tgttgcgttt tttgcttgcg acggcaaatac cagtcagtcg gggtagacta 360
 gcattagcgc ctggaacccc aagtgcagg gcgccagcgc caatcgacc aattgttgac 420
 gaggttgac cagatgagcc tctgtggcgt cgccgagcta gccgactccg tacactaccg 480
 cttcgaaaag gtctcgtgcc aacttcccc tcgaatgcgc tggcacctga gggagtctgg 540
 gcgcctgtag gctctttcat tgagctagct tggacatcag aaccgtcgtc cgccaacgcg 600
 ctatccgctt tttcgtacgc catagtact gcgcgtgcaa cccgcatatc ttcaagcttt 660
 gcagcagcat catctcgtg ggaaacggct gggcttcggc gcgtttctgg tctagatcg 720
 ggcttcgtaa taacgacacc atctggagtt gagatagatc caccggggg tatatcgaga 780
 tccaaatggc tgaaattgag atcaccagaa cctagagtgt caatagccat gggcttcttt 840
 tctccgggtg gagctttgtt gatttcatca gattctcgcg cagtctcgtt tgacggctgt 900

gcttcggagt cattggcttc cggatatggtt ggattacggg ccttttgggc attgagagtg 960
tttgtcaggg tagaggcggc agtctgtgcc gctgaaaaca cggaggaaaa gaaccagtc 1020
tggggattcc cgaccttccc ttcttcaatt gtcgggctag cagctatcga atttgatagc 1080
ttactcggct tcggatttac agaagaagta gacctaacac gccgatgaga gatcatgttg 1140
cccgaaacgtc acaacaacgc cggccggtaa atcgcgggat gtgatagagg acggagactc 1200
tgtgataccg gagttcaca caagaggtgc atgttcaagg tgaggggtgg gcggcgtcac 1260
tgtagtagaa gggaatggga tggcactgtg aggaggtgtt tgaagacggg gacgctccgg 1320
cgaagatcga aaggtctctc ccatgagatc cgtacgtatt ggttctggaa ttgatgggat 1380
cggcgggggc gctcagcta tgctaccggg ggccatcttc gaggacaagc tgcttcgtcg 1440
gctcgcgctc cacgaactct caccgacgt tgattcggct cggtcacggt ggacgatttt 1500
cttgtcggag ctgaacgcat tctttaaacg ctgagtcttt gatacgtttt tcttcttggtg 1560
gttacggtcc gtaggcacac tcagatttga gcttgctggc tggctagccg ggcgactgg 1620
ttcctgttca agattcgagc tgcaagatc tgaggttgag ccactgacgg ccgactccgc 1680
atcaccatgc gctccatctg tatcattagc gtcagccgag gctgttttga tgagaggtga 1740
agaggccgta tagaaaccag aatgcgaatc atgcgacgtc aggggagggg ttctgaaagc 1800
cgcattgagc gtcagtatcc tgaaacaatc cgtggatcta agctgcggac ttaccggtcg 1860
ggctcagagt cgtcggttag gagattcgag gggctgtctt gggaaccatt accttccggg 1920
ggaagcaacg aggcgctaga cgctctcgcg cgcggattgt tagagtaact ggacaaacc 1980
ccatcattgg tctccaattc tagagtggct ggaacttcat cgaccagtct caagtcattc 2040
ctcttcttct tacgtttctt tctcgatgcg aggagcttcg acagaccgct agatcccgat 2100
ttagatgatt ctgcctcccc cgcttgctg tcggacgtgg aatcgatgga ggaccgacca 2160
ttgctccgac cagagcttcc aacagtctcc aagtcgaccg gaattgtctt tgagcggatc 2220
gatctattta agggcggagc atcggttggc gcgggctcgg gagggtcagg gagggcgggg 2280
atcttaagca gtgctacaac tctctccctc taggggggta ggtaagtga agagaatcac 2340
atccgagggg ggtagtatga actaggaaga ttgaatatta attacacatg atcatatggg 2400

<210> 1788
<211> 3711

<212> DNA
 <213> Aspergillus nidulans
 <400> 1788

```

gaagagaagt ttacgactat ttagcctaga tgaagtatag ttttgtgcaa tgctcgatag   60
cgtagcatac aacctacct agtaatgagc tacttgggct gctagaataa atctcccaat  120
ccaagctaag gtagtcagag ctgaacgcaa gtctcgtaaa tggccctacg aggcacacaa  180
atagccctaa agagtatcac gtgaccatac tagcaccgca atgagttcag gatccgacaa  240
tagcgaggct gatatcaagt gcgccgaata atgtctatca ctgtagaaat atatctgatt  300
cgctcagctg gtcgataggg gaagcatcgg agttggcgga gttggcggag ttgcaggact  360
tgctggatta gggctgaggt cagacggact ctactctcc gctatagaca ctgggcgatg  420
ttgtaggcag cgatgggaga atgtgcattg cacatggctc ggagatttct ggagtcaggt  480
catgcagtct agatcctgac tgcagtagaa tgtgcagatt ccggagcttg gggagttaac  540
ctgcagtaag ctcagctcaa gcaatgatcg gtaggtaggc ctgggtggcca tatcagctat  600
agatgcgatc cgccctcaa gcgcatttca agccctccct cttcaatacg tttgcgatac  660
cttagagaaa caaatcaaca tccatcaact ggcacagatt catctaccaa ctcaacgtga  720
ttaccctgcc agctttgacc taaacctcca taatcccat ccacaaggca ccatgggcag  780
cacatcttcc gagccacat acgacagtga gcccatcgag attattggcc tttcgtgcaa  840
ggccgctggg tccgcagaca ggcccgagaa actatgggag atgcttgagg aagggcggaa  900
tgcatggtca gagatccctg atttgggggt taaccacaag gccgtgtatc atcctgatag  960
tgagaagctg ggacgggacg tctttccttc tagacttgag tttcagtggg gaagtggatg 1020
ggaagcaaga acctggccag actaacgcgg aatcttcgca gacgcatgtc aaaggggcac 1080
atcttctcga gcaagatgtc gggctcttcg acgcggcatt cttcaattat tcggcggaga 1140
cagctgctgt acggtcccta tgaacgattt caggatgaat ggccaggcta actgagcatg 1200
atgtacggat agaccctcga tccgcaattc cgcttcacgc tcgagtcctg ctatgaggct 1260
cttgaaaatg gtaccaccct ccccccaaca gcccttgccg aaggctgaac agagagtaca 1320
gctggcctga cgattccatc catcgccggc accaacacct ccgtctacgc cggcgtcttc 1380
acgcatgact accacgaagg tctgattcgc gacgaagaca aactgccccg gttcctcccc 1440
atcggaaccc tctccgcat gtctcgaac cgcacagcc acttcttcga cctcaaagga 1500

```

gcaagcgtga ctgtagacac cggctgctcg acggccctgg tggccctgca ccaggccgtc 1560
ctcggcctgc gcacgcgcga agcagacatg agcatcgtct ctggatgcaa catcatgctg 1620
tcgccggata tgttcaaggt gttttcaagt ttgggaatgc taagccctga tgggaagagc 1680
tacgcctttg actcaagggc gaatggatac ggacggggccc agggcgtagc gacgattatc 1740
gtgaagcgac tcgcggatgc gctgagggac ggggatcccg tgcgcggcgt gatccgcgag 1800
agctatctga atcaggatgg aaaaacagag actatcacct cgccgtcaca ggaagcgag 1860
gaggcactga tcaaagaatg ttatcggcgc gcggggctgt cgccgtcga tacacagtac 1920
ttcgaagcgc atgggacagg ccccccaact ggagatccga ttgaggcgcg ctcaatcgcg 1980
tcagtatttg gaaagaatcg agagcagccg ttgcggattg gctctgtcaa gacgaatatc 2040
gggcatactg aggcggccag tggctcttgc gggctgatca aggtcgtgct ggccatggag 2100
aaggggttca tcccgccag cgtaaacttt gagaagccga atccgaagct gaagctggat 2160
gaatggaggc taaaggtggc agatactttg gaaaagtggc ctgcaccggc ggagcggcca 2220
tggagggcga gcgtgaacaa ctttgggtat gggggtacga acagccatgt cattgtggaa 2280
ggggtgccga agagattata cacaccggca aatggaaatg agaccggcca gataaagcat 2340
gagacagaga gcaaagtgc cctcttctct ggccgcgacg aacaagcctg ccagcgcag 2400
gttgccagca cgaaggagta cctgaagaag cgcagggagc aggatcctcc catgacacct 2460
gaacaagtca agaccctcat gcaaaatctc gcctggacat taacgcagca ccgcactcgc 2520
ttctectggg tctccgcaca cgcggtcaag tactcgacct ccctggacac cgtcattgac 2580
gccctcgagt ctccgccgc ggctcaaga cccgttcgca tccctgactc tccattccgt 2640
attggcatgg tcttcacggg gcaaggtgcg cagtggcacg ccatgggccc cgagctgac 2700
gccgcgtacc cgttattcaa ggcaacccta gacgaagcgg aacagtattt gcgccaaactg 2760
ggggccggct ggtccctcat cgaagagctg atgaaggatg cagccacgac aagagtcaac 2820
gacaccggcc tcagcatccc tatctgtgtc gccgtgcaga tcgctctcgt ccgcctgctc 2880
aaggcatggg ggatcactgc ctcggccgtg acatcccact cgtccggtga gatcgccgc 2940
gcgtatacgg ttggcgtctc ctgctgcgc caggccatgg ccgccgccta ctaccgcgt 3000
gcatggcag cagacaagac gctgaagagc gcagaggggc cccaaggcgc aatggttgcc 3060
gtgggtgttg acaaggctgc cgcgcaggca tacctggacc gcgttgagaa atcggcaggc 3120

cgcgctgtgg tggcatgcat caacagcccc agcagcatca ccattgccgg cgacgaggca 3180
 gccgtcgtcg cggtcgagaa gttggccact gaggaggcg tctttgcgcg ccgactcagg 3240
 gtcgagacgg gatatactc gcaccatatg gagccaattg cgagcccgtg ccgggaggcg 3300
 cttcgcgcgg cattggccca ggaagatgct gagtctggta ccaaggacca gactgatgtc 3360
 ccgggctttg cggatgccac taaaccgggc agcctagacc acaccgtctt ctctctcccc 3420
 gtcacggggc gccgtgtcac agatgccaaa gtcctctctg acccgagca ctgggtccgc 3480
 agtctgctcc agccagtgcg gttcgtcgag gccttctactg atatggtgct tggctccaca 3540
 gatagcagca atattgacct gatcctcgag gtcggggcgc atacagccct tggcggaccg 3600
 atcaaggaga tccttgcctt gcctgacttc agcagcagga atgtcagcct ccctacatg 3660
 ggctacctcg ttcgtaaaga agatgcgcgc gactgcatgc tcactgctgc c 3711

<210> 1789
 <211> 3423
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1789

gtattacaat gttgactgcg cacgattttc cgagcgcgca tgtcgccgac gcagccggaa 60
 tggacatgat tctcgtgggt gatagcttgg caatggctgc tctgggcatg caggatacga 120
 gcgaagtgac tctagatgac atgttagtgc actgtcgcag tgttgcccga gctgctcaga 180
 gcgcctttac agtttgtcaa gcctgatgaa gactttgttt gtgcccacga tcctaacaat 240
 cgttatgcag gtttcagatt tacctatggg ttcgtacgag gtgtcgccag aacaagctct 300
 tcagtcggct attcgaatcg tgaaagaggg tcgggtgcag ggggttaagc ttgaaggtgg 360
 ggaggagatg gctccagcca tcaagcgcac cacaactgct ggtattcccg ttgttgga 420
 tatcggctctc acgcctcagc gtcaaaacgc gcttgagggg tttcgagttc aaggaaagtc 480
 aacgacggac gcactgaaac tgtaaagga cgcacttgcg gtacaagaag caggtgcgtt 540
 catgatagtt atcgaggccg taccgccaga gatcgcaagt attgtcacac aaaagctcag 600
 tgttcctacc attggatttg gtgccgggaa cggttgctct ggacaagtac tcgtccagat 660
 tgacatgacc gggaacttcc cgctgggtcg cttcttacc aaatttgta agcagtatgc 720
 caacgtcttg aacgaggcac tccaaggcat ccaacagtat cgtgaggagg ttaagagccg 780

agcgtatccc gcagagcagc acacataccc tataccgaaa gaggaactgg ttgaattcca 840
 gaaggctggt gatgaattac ctgaagagaa atgattatgg aatagttgcg tcttatgttt 900
 tgctccgctt ccttcatcaa ctactttggc agtggcattt caggggtgtgg tacctactat 960
 aacctttgta caaattgctt ctaaacgcgg ttacgaacc attgcacaaa tatttataag 1020
 ctgtagtata tatgaatttg atttgtgatg ctgagctcgt gcttaacgtg taccgatcc 1080
 cgccgccaac tctttggaac ttgaaaaca agaactccat taacatcaaa aatgcatcaa 1140
 gtagttagcg agtaacaaca ggctgagaag cgctgcctcg tggaaatatt tcgaagacc 1200
 aaagcacgtt atcattacaa ttaattattac aaaagtccca gtggtgctag gtggtatgga 1260
 tcataagatt atgtaattta gaatgtatca acacgtgaca tatcatgtga ctgactacct 1320
 aaccacgcat gttaatcctc gcgtgcctat tctcatccaa cacttcttca cgcatcactg 1380
 ctccagcaat aaggaagcta cctcgcgcac tagtggtgat attgagtatg tgctatagtt 1440
 gtgtctcaca tcgccagatc taagagcttt attgccttgt tgtcgtagaa cagatctggg 1500
 tggcgcgcg cgaactgtct ccagaggcac acctgttacc tacaaccgcg ccgtagaaat 1560
 ctgaaccttt caatcgctac aatcgatcgc catggctggt aagctcagta ctatacgctg 1620
 gatgtcttgc gcccaaccaca ttgtccttgt ttaggcgact agaactccag ctatacccct 1680
 cacgtggatt agtgagctaa ctccagcgcc agatgaaccg cgtcgcctccg gtcgctcgac 1740
 caagggccag cacaagagcc tcgacatggt caacgaaacg ccaacaaaga aaacgaaagc 1800
 taaagcgcag cccagagata aacccccgaa accctccgca gagcctacct ccgcgcttag 1860
 cgaggaggaa gagattatcc ggtgcatctg cggcgaatat gaggaagagg aagacatcga 1920
 gcgagatatg atttgcctgc atcagtgttc agcatggcaa cataatgatt gcatgggttt 1980
 gacattcgcg aagggcgaag tgcccgatca gtacttctgc gagcagtgcg agcccgaaga 2040
 ccatccggtg ctcatggaca agatagcaag aggcgagaag ccatggttag aggtagcgga 2100
 acgaagaaga aaagaagctg aagagttgaa acaggcacga cgcaagaagg gaaggagagg 2160
 aggcaagaga ggcagaccaa gcgaaccgaa agagcccaag ccctaagaag agcacaccct 2220
 ctcgtaacac ggcacctccg agcgtcaggt actcctcccg ctgaaccacc cagcgcctgt 2280
 gatcgctacc ccagctcccg agaaaaatag tcattcgctt gagaagccac catccagttc 2340
 tcagaagcga aagctgagtg aacaggaggt atcgacgccc gagtcggtaa gtagttacat 2400

tccccatcaa cgctagactg aaactctaac tcacatcaag ggccccaaga cgaaacaggc 2460
 aaagatttcg ccgcctgctg caagcccggc acctcacgtc aaccagtcgc cagaggataa 2520
 agagccagtt ggccaggata ctaatcaaac gccggccgcg gacactacga agactgaacg 2580
 actgaagact cttgaagata tcaccaatcc ggctaggagg aatgctgcta gcgcgctaac 2640
 taaagtgttt gtggaccaga tctccagtgc cctggcgga gggtctttca aaatgtctga 2700
 aggcaagacg ggggaggaag ttggtcagca acttggcatc tcagtcgagg aggccttgta 2760
 tcaaaatcta atggggggag gtggagaggc tacctcagaa gcttataaga tacaactgcg 2820
 ggcgattttg ttcaacgtaa agaagaacct ttctctacgg gatcgctgc tcgtaggtag 2880
 tttaactcct gatgccctct ctagaatgag ctccaagag atggcaagcg aggagctaca 2940
 acagaaagat gctgagatca agcgagaggc tgaaagacag cacatgatca ttcaggaaca 3000
 agggccccgg attaggcgaa ccataaggg agaagaactc gttgaggatg atcagactaa 3060
 tgtttctact gagcctgtct tctcaaacat tctcgtcgc gttaccgaga cggatgggag 3120
 tccggcgcg cagagtccaa ctagtccaag tgctaagcag ccagagactg acggccataa 3180
 ggtcaagaca gacgctacac cagctgaacc cacgcctcat gacgaacatt tcccgaccg 3240
 gagccattct cctggcgccg gtcaggacca agtcttcccg gaggtggcca cacacattag 3300
 ccagccaata cccactggca acgtccaggc cgatgcagag attgatcagt tggtgaaaga 3360
 cgacgacgaa cccgagtctc caccatattc accgaagacc accacgatga gggagctgtc 3420
 tgg 3423

<210> 1790
 <211> 4183
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1790

gacgtcgtg gcgcaatacg gacatactac gtctggcaga gtatgattgc ctccctacgac 60
 accacttggg aagggtggcc tgtcttgctg gcagcaacgg tggaaatcaa cctcggcctg 120
 gtatggcaga gaatccccgc tggcttttca gatagctaata tgacatagat ttgcgcctct 180
 gctccagcat tacgaccact ggtcaacttt tcatccccc gtcttcttgg cacctcatat 240
 cgctacggtt cggatcgcg ataccgctcg agaaatttcg agaactcgcg ccagtcgtgg 300

aggctcaagt cattgactgg aaactcgtcg aaaccatcta ggcattcgaa cttctacaat 360
 gtcgatgcaa aaatatccag tgatcacctg aagggtttcc ggactgtcta gatgaatccg 420
 cctgcctaca cttgcacgtg ttatgtctca cctgtgatcc cagcaggcga 480
 cttcaattgg cttatatggg gacgtcgcgc gtctcaccaa cgacagtga actctcaaaa 540
 accctacgtt gagcgaaagg tcaatatcgc ctccgactcc gtctatacga agtgatgtaa 600
 ggagtattcc cagccgtcac acgaaggaat gtgtgtaacc tcgaccttca ctatttctaa 660
 catctctttg atgattcttg tctatcttta attatcttct acaccataac atatgggatg 720
 gttctggaac ctagcactct acacaaataa cgagtacatg taaatatgtt atgagggcaa 780
 atagcctgct caattgccaa taaaaaaacg ttcgacttcg aagacggtaa taattattgg 840
 tgatagctgc tctcgcgag gtcaacttct agaaaatata gttgtgagcc gatgacgagg 900
 acacgttggc taagatcagt aagtggccat tgcgctcgac accccaattt tatgttataa 960
 tccccgcagt gacacaacat attatagtca catgttctct aagaacagct tgactggctg 1020
 atggatacga ctttgcatac ctcaattatc tacttaaacg ggtagacaaa caattgtcat 1080
 ctggatagcg agtaatgaca gtctcgtctc ctttaggca tctgtttccg atctagcacc 1140
 aaatttgatg atcgcgga atttgccgat aggtaccccg tgactctcgg tggcttcagt 1200
 tcacgcatcg gcaccgaagg aggaattccg tgatgtcttt cgccggaggt ggaaccgcca 1260
 caccatagag ggaaagaaaa acggaccgtt gttatcaatt acttctggtc ttggagatct 1320
 ggatgatggg tcggtgaagc tgacgaatat tattggctga aatcgccgaa gctgccatag 1380
 cttctctctc gcagggctgc tgggatcaca gcagtcctc aaaataccag tggattttaa 1440
 gaccgcaagc cgcatttcg ttcgcagagt tggctcgaat ttatttgtat ctcaacttac 1500
 tcttaacgatc ttctcatatt attcctccgg tttcgtatac agtcgagtgg tcgtctcgaa 1560
 gctgtagtat acttcttctc tccccgtctc tatcgagctc tgatcaaagg gctctttctc 1620
 ccacttcctt tacgtcgtct ttctccttcc aacctgatcc tatccgtcaa gccacaatgg 1680
 cttctgcctt ccgctccagc ctgaagctgc gggcttcagc tcgtctccca gctgttcgca 1740
 ctattacaac cacaccccg cttcgagctg cggagaagcc ttacttcccc aatgagccta 1800
 ctgctcccaa gctggctacg gccattcctg gcccaaagaa caaggccgct agcgaacagc 1860
 tcaacgaggt cttcgatgtc cgcagcttga acatgctcgc cgattacacc aaatccgtcg 1920

gaaactagta cgtcaatttg cegtcaatct accccgcgca gtgtttgccca gggctaacac 1980
cgaaccagca tcgccgatct cgtatgggaac atgtcctctg atgtgtacgt ggtcaatcat 2040
atattatccc tacttgtaga cgaatggcat ttctaaccgg actgcagtta tgcccaaatac 2100
gcgtccattc ccgttggtta caacaaccct cacctcctca aggtggccgc ttcgcccag 2160
atggctacct ccttgatcaa caggccagct cttggcaatt tcccttcgc tgactgggct 2220
cacatcctga agaccggcat tctgaaggte gctcccaagg gcttggaaca ggtgtttacc 2280
gctatggcgg gttctgacgc caacgagacc gcttataagg ccgctttcat gtactaccgt 2340
cagcaacagc gtggcgggtcc cgagaaggaa ttcaccgagg aagagattca gtctagtatg 2400
ctgaaccaga ccccgcatc tctcagctg tctatcatgt ctttcaaggc tggtttccac 2460
ggcgtctat tcggcagctt ttccacgact cgcagcaagc ccattcaca gctcgatatc 2520
cccgcctttg actggcccca ggctcccttc cctccttga agtatcctct cgaggagcac 2580
gctaaggaga acgctgagga ggagcagcgc tgctgcagg aagccgagcg cctgatcaag 2640
gaatggcaca acccgcgc tgctatcatt gtcgagccca ttcagtctga gggtggtgat 2700
aaccatgctt ccccgctt cttccgcggt ctccgtgaaa tctaagcg caacaacgctc 2760
ctcttcacgc tcgacgaggt ccagactggt gttggtgccca ccggtaaatt ctgggcccac 2820
gaccactgga accttgagac tctcccgat atggctacct tctccaagaa ggctcagact 2880
gccggttact actttggcaa ccctgccctg cgtcccaaca agcctaccg ccagttcaac 2940
acctggatgg gtgaccctc tcgcgctctc atcttcctg gtatcattga ggaaattgag 3000
cgcttgcttc tgggtgagaa cactgccgcg actggtgatt acctctactc tggccttgag 3060
cgctcgcga agcagtacct cgagcacctg cagaacctgc gtggttaagg ccagggtacg 3120
tttattgctt gggatactcc caagcgtgac gagttccttg tcaagggcaa ggcgttggt 3180
atcaacatcg gtggtagcgg acagaacgca gtccgcctgc ggcctatgct gatcttccag 3240
aagcaccatg gtaagttccc tgttatcgct actaatgtga acatggctaa cttctcacag 3300
ctgatatact ccttgagagc attgagaaga ttatcaagca actgtagggt ggtctgggct 3360
aatgattgct tattgtgcgt ttattccacg gcgttataat ggtaaagtgg gagcaggttg 3420
tctcaaatca ttgcatttat cacaattata tgagttcgag ttcagaaatt tgaagatccg 3480
atgatggata gttcaagcta ttgcagctgg tcaactgaat ctaccaaagt cttggcctcc 3540

gagaatcgct tgtaatatat gtaaaccagt agatatcata actcccgcg cgaaatgaaa 3600
 tcggcttcca gaaagaacta cccgtaaact ccgattcgtg tgcaaataatt tagcagagac 3660
 agagcagaaa gggatatctct tgcgttctct ggtatccctg agcaacaaaa attttcggcc 3720
 acaagccacg tatgcctcgc ttttacgcat aaagtagcag atagcccaac aattaccct 3780
 ctctctcagc cgtacttcca tctctcggta tgtactttat tccagcatcc tctagatgcc 3840
 caataacttc ggtaggaagc gagcctgtga ctttcaccgc atatgtccca gggacataac 3900
 cgtccagtcg ttgccagcga gctaccacgc ttgttgccgg gtcattgaca gtgactaggc 3960
 cctcaaatac ctgtgaggtg cactcttgaa tgttgctggt gttgccgagg aggccaagga 4020
 cattgtcgca gttcggacaa ctttcacgca tgaatttctg attgagaaaa accagttaac 4080
 tattgatgct gatagatagg ggtgcacacg atcagggggc ttacgaagtg tagctggacg 4140
 agtgagcaga ccatgcaggc gcggagagtg cgctgcaggc tgg 4183

<210> 1791
 <211> 6447
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1791

caggaggatt gtttagcgaac tccttcaacc tatccgtgat gatctcaaaa aggtcgcgga 60
 tgtcaccatt ttttaacttc caaataaagc agaacgagct tctgagctcc ggcgtctgct 120
 taacaagatt ggtgacttta tcaacagcaa cttgcaggga gagaacactg gttctctctc 180
 ctctctcgaa actcgactat ggtatgtcga atatcgaca tctttaagaa cgatatctaa 240
 tattatgctt aggcactatg tctctgtcca ttactggccc acaaagacg cgggaggagc 300
 taaacttcaa gaaatgtacc acaaactgat tgaagtccac aagaaatctg ccgaacacac 360
 tgtcgctca aaaggagact aaactatctc gatcgagcg aaaagcgctt tttccgaatc 420
 tgtttgaaca ttcgtttttc ttaccatttc tcgtttatgc atacttggga aagcatggcg 480
 agcggcgctt ggtgtggtcc acttcaggga actctgaaca tcatccctg cagtggcctc 540
 gataatgatg ttgcatgaga tgtctcttgt ttttatctat ttgctccct tcgtccactt 600
 ttttttttgg ctcttcgtct tcttatttgg aacgatccgg gctcgggttc aggctcaact 660
 gtatttgacc aaccatatct tcttcacag cgtacctct acttacctcc atcacctata 720

ctattatcat catctagatc cgaacccctt cctatctgcg ctggcgttgg ggtcagatgt 780
ttacgggcat tcatgtatcc tactcttatt cattctggga gatatgctga aatgttgcta 840
gacgttgttt ctatctctac tgcgccaact gtgatttagc atgttctgtt atgattcacc 900
tataccttcc tgggcgaagt ggggtgcttt ggtggctggc tacctaccct gtcgggtaac 960
agatataact cgagaaaagt gttaggaact tgagaatata tgatgggaca gactctactt 1020
cgtgtaatct tataattagt ggcagtgtgt aaccctctga ttaggtatth atagtcagg 1080
tatgctgtga taataagacc aagtactgaa atgatctagc gccagaataa tgaacaaagt 1140
atgaaaaccc gccgagccta agctccatt acccgcaatt tcttacgtgt aaagacagat 1200
agaagacaga aagcgtaaaa aaaaaaacct caaacgggtc cctggccttag gaagtaaagg 1260
agagcgtaga atataacagg cctacaaggc aggagatata acggcgggat ttggtaacct 1320
gcggccgcta taggggtgcgc tggattttcg ggcattccgt ttgctggaac aacagacgtc 1380
tgcccagtgg cgccctccgc gctgaccagc gtgctaagaa gccggagttc tgcgtccatc 1440
aagtcacga atatagcttc tttctccaac caccgagtt tctcttcgg tctaattttc 1500
tccaagtgc tcttgagatc tgcaccttct tttctgccc agtggatttg cctgcggaga 1560
agcctgtata actgatgtgg gttcatttcg agctcgtggc cgtcgaatcc agtgtcagaa 1620
ctgaactcag gaacctcaaa ctctcaagg tctcagtcgc cggctgtgtc gtcgttgaca 1680
ccttcgtgt attgctctga atcgtcgcga ggtgggtgtg atagtttcag ttgatgcgc 1740
tggagcttg aggctggggc gccaacagg gtgcgcggc acgagaggat atcgtgacgt 1800
ttgggaacag ggtcagacgg gcgcagggcc tcagtctcgt gtacggttct catgtgcttt 1860
gcgagggcat cggaacgggt gaaactgcga tcacattctg gtcggattgt aagcatcgcg 1920
ttgagctcat tgttacgcga aacaaatggt aaagaagcga aggggtaata aaacatacca 1980
gggagcgcgc agtagaagg cttttctctc gtatggctcc tcatgtgcgc acgtagcgcg 2040
tagccgcttg catgcgtttg acccttccga gtacaatcgg accattcgca ggaatatttc 2100
ttctgccggc taccgacatg ctggtgtgg atgtgttgg ccaagtcgtc catgttccc 2160
aggtctttaa aatcacatcc tcccatcgg cacacggtaa cctggtcgtt gcagaacccg 2220
ctgtagtctt cgtcttggtt tgcccctatg agcgacagag tggtgggtga gttgggaatt 2280
tcgccggacg tatcggacga tatagaagac gacggggacg gaggcggagg tagctcatcc 2340

tggaaggaag ttgacacggg tgtgttacgg tcccaggaag ccatgccggt gcggcgctgc 2400
 tttgacgggg gcatgttaga tgatggtgtt gagacgccct gcttgggatc gtcgcggtcc 2460
 gacatgtcgt cggaggcaac ggaggagagg ggggagccag gagaatcggc cattgggaac 2520
 ggggagtaat gtggacgggc ggaatgagcg aattgatggg tcaagagcgg gggcaataag 2580
 gtagcgagca gatttgattt ggggagaaat ccagggtttg cttgacgtga tgctggcgtc 2640
 tggagtgcag tatacagccg gcacgtgatg aggctattgt ccaccacttt tgttcttttt 2700
 agcttcgcac acctccaacc tccaaccac aaactacaac aaaacataaa tcaacaacag 2760
 cacattagcg ttactgagta agttataacc aggttatcct tgcctcaaca ccgactgct 2820
 tcaatgatga tcacttcaag aattctgcaa ttccgacaat ctccaggctt ctgtgagatt 2880
 gcgtgttgac ctactacact tgacctgatt gaaaatactc ttccgtggca cgctttgtcc 2940
 aaaacgctgt tggatcaggc taacaataat cctagttctt ccaggttcaa tttcaatatg 3000
 gttgtcacac tgcttcgcc ggctgtagg tgccgttgag actgccagct cgcgctgcca 3060
 agctggcggt tccccggcta ccacatcacc gatgacatga tttagatccc ccgactctt 3120
 cgatctgac atactctgta aagggtgcgag ggtctccttg cgtaactgtg ctctgtgtca 3180
 cccggatcgg acggtctcaa ggttgcggg cagccactca taggcacca atcggtttg 3240
 cttcgtataa cttgtagtcc tcgaggaaaa cgcagcgagg tggaggtgtc actgcacctt 3300
 gaaggacggc gttctacagg tgttggaacc ttggaaatta accctgccta caagttaatg 3360
 gtcattcaag agcgacaagg ctagaccttg ttagacgcgg ctcatgctct catctcaagc 3420
 gtagttctca tcttgacctt ggttattccg tcgtcaaccg ggacgtggcc tattgcagtt 3480
 gggcccaaga aggcctgatg gaacgaaatc tcagcctaac cgtgccgcga aactcaggag 3540
 aagaggtttt cacccttctg ccaggctagg atacttttcc tgacagcgga ctaatagcca 3600
 cggatatgct taaacatcct cttctgaaat ataatcgttg aagcaaccgc gttcattagt 3660
 gtcatttctt gcagtatcgt cactcataac gctaaactct tccaatactc caaacagaaa 3720
 gacctatccc aacgaatcca taaagagtag ctaaaatata ataagtataa tagtcaatcg 3780
 gcgtccacc aactacacca atccaatctc gtcactccca ttgatcgctt ctcgaaactt 3840
 tttcttcaaa acttcaaaga gcgtatcaac aaagccttca gggtccttcg cggcatttgc 3900
 atcatcctta gctgtatcca tgcccttctc ctcccatg tcaacgttgt tctcaagctc 3960

cgtcacagtg ggcgtagatg cacggctatc gtcaatcacc atcgtcgcac cactatcctg 4020
 cccattcatg tccgtatgca atttgttgaa tttctccagc tcttgcacgc ccagtccctg 4080
 gaggatggct gccatcaagt ctgtctcggt ggggatcaat ctctattgtt ggtattagt 4140
 gtttgcacat atttcacaat acaaataaag tagcactggg ccggtagggc atgacgaggt 4200
 ttgacgtacg gggtcagggg ctgcagatcg ggcttggatc tcccccgctg tttcaggacg 4260
 tatagcggtt tctgctggga tggggatggg aaaggctgtt aagggtgaga taaagatggg 4320
 gaaaccaagg actaagggtg cccatgattg ttgtgggtgc atcgtctgctg tcgtccctgg 4380
 agtagatcta tacaagtggg tggagatggg gagatgtggc cgtacgaagc gaatcccaaa 4440
 ctgcaagttg cctaaatata accactagct agatgctcca tcttgacgga tatatcgaac 4500
 aggcgtgtgg aatgaaggcg tcgtttcggt gctaggggtg gcgtcgtctc gctggcatgc 4560
 aggcagttcc caacctaccc tgcccatccc catagaagta gactcagtcg ctagtctgctc 4620
 cgagccaagc acggtccgtt ttgaagaggg aatgcataaa cgtctgcact ccaattaact 4680
 gaccaatttt tggagtatct ctgctgacca tattctgtct agaaattggc cttagatttg 4740
 actcgactca aagccatttc ctatgaaggg ggggaatttc gctgaaaatc ctgtctattc 4800
 agtcaaagct tgcacttgaa gcttggatca gttgaaacaa ggggttctag caaagccctg 4860
 agcattccat ggctctgaga cagaggcact agcttggggc tttcgcgttg gaatgtccaa 4920
 ctgcggtttc gatctagtgg tttgtttaca gtcgataatc gagcttgtag agtgccctga 4980
 ggtggcggtc gggatctcgg gatgtgtctg atatgccgt ctgcaactgc cggttctctg 5040
 actctagcgt ttgggtttgt cattcgtgta gtatcttgac gttcttgacg ttgtaaattg 5100
 ggtagataag gtcaaattaa gtatgtatcc ttgtctatac actcaaaggg tttgatatct 5160
 tcgaagtaga aagggtagag ttgttttgat cgcgaaaatg ccccgccatg gatctgtctc 5220
 cgcccgcat gactatgaca gcattgggtg aatcgacgtc gaaattcaaa cctagctaag 5280
 atcaacgaag ataatcagtg gtgctccaag tctcatcggc aagatacctt accttgactg 5340
 aatcgaacag cataacatca ccacaatgtc cgcccagaat gaaccgcaag ccgaagcaca 5400
 atcaccatcc tcgggagagg aggggtctct tcccttaggc tcatccctct accaaaccgg 5460
 cttgcaaacc cgccaatccg tctcggcag cgcgcacgtt aaccgctcat tgtccaacag 5520
 caacgcattc acattcccaa tgcaagaagc catcaccgag tttgcctggg gctcgatctg 5580

gaaccggccc gggcttgacc gtaagcagcg gagtctaag aatattggaa ttctgatcgc 5640
 gctgaaccgc cagctggaat tgggagtgc tgtgcgcggg gctgtgagaa atgggctgtc 5700
 tgagctggag atccgagagg cggttatgca tacgcttggt tatttgtggg cgccggcggc 5760
 gatggaagga atgaggactg ttgataaggt gctcgaggag ctagaaaggg aggggggagat 5820
 caaaaggagg ttgaaatgat ggcgtttgac ttggattgga tgaaagcagg tgcgaggaca 5880
 gaggaggagg gatgaagagt gaacaatgga aggacctcgg gctggtatgg gctatgccag 5940
 ttgaattaga actacggtac acgctgtgag tatttgatct ttaggggta tacctattga 6000
 gaccagagct ctgccagcg ttctgagttg gactgcatac gttctgcagg tactatgtac 6060
 ctaccgttt gcactcatag gcagtacaag ctatgattaa agctggtctg aatacagagt 6120
 atagcatagt ataattgaat gatctggccg gagagacagt caatcaccgc tcacgatcag 6180
 ataagtgcgt caaaggttgt aaagctacga gataccaaaa cctacctagc gtcccggttg 6240
 ccgtgcacca gcattcagca actcttatcc gtagcctctt gccggatggg aagagcatct 6300
 agtcataggc gagatgaaca cgcaatcaag cagcgagcat gactcttgct tctgaacttc 6360
 ctggtggctt ggacaagccc tgcagttgcg gcagctcagg aaggtgacga agccacggca 6420
 tccggagctc atgacatccg ccatcgg 6447

<210> 1792
 <211> 1620
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1792

aagacgaaaa gaaaacctga tgttcggatg tacacatctc gagcctttct cattatccgt 60
 cggaggatcg gaaagtttgt ctgtttactg agtcacgtgc taccagcaga ctgcgcaggg 120
 tagttcatcg atgcgaccga tgtccagctc aagcgaacat ccgtgacgag ttgaaaata 180
 cctaaatcct tcctcgatgt ctccagatgt cggcggaat gagcttcata aatatggcac 240
 gatgtaattt tcctggccgg gaagcgtttt aacaatgtgc aagcgcccta gccgctcccg 300
 gtctcaagta gctactactg attgagtcaa gggaagtacc gtaacgaaaa caagctgaat 360
 tgagaaggag agtaagaaaa agaagtaagc cattcataca ttgccgcgtt cacctacagg 420
 tgtgcgaaag atatgaacga ataccggccg gctgtagagc attcaccacg ctccatcgac 480

gagacgaaat cgtccgcagt agagaccgga cagattgaaa tcctgccgac ccaataacac 540
cgtcacaatt tgcgcaaact tgagtacttc tcagcttata taaataatgc ataatatcat 600
atattgtcta tacaactaac tccgcccggg tttcctttcc ttttccgaag agtcaccgcc 660
ggatcctaata actccaacgg tatccccaga cctaactaca tgaaagcatg taagacagtt 720
cataacagag tggatatcat aaaggacgtc gtcaactgac gattgtagca aaaaatcaaa 780
cgaaaatagg tgaaaaagtg tatggagaaa ggatgaagggt agatgccagt cagccacaat 840
ccagatagggt actcctcccc agttgtaaga ctaacatcag ccaaataaaa gtcgggtctc 900
ccaaataagg tactatatcc gtaaactgaa ggtagtaata gtgtacaagt cccggttggt 960
agacgggcac caacctcatc gagacatcat gcagttgcct aaagcagtga agtgaagga 1020
tggggttact cccccctcaa ccccttgatc atgttcttca gcgcgtcaag aagaacagct 1080
tcgtccgggtg gctcgccacc agggaaacgaa ctctctgttg cctcgccctaa tgcccagacc 1140
cgtgcgctct taagaacacc cttgatatag tctttgtcct cgtagtcttc cagaaggaca 1200
gcctcaaaat catcaatggc tttgttagca cgctcggtga aggaagcttc gtcggaagag 1260
gtatccatgg ggactggacc ggggttctgt ccacccatat tgtagggctg ctgctgtgtg 1320
tggttgtgct gttgatgctg gtgctgaggt tgatgctgtg gcggaccggt gtttgaaggg 1380
tagctctgag gtggattgtt gttcgccggg agaggctgtg tattctgggg aggatatgga 1440
gtcgaatgtt gtgggggagg tggcggtgct atgtgctgag tctgcgcttg tgcttgcctg 1500
gattgttgat attggaggag ctgcggtgga gggtcggagg cgtagggaga ggtgtatgta 1560
gtcgggtgtg tttgcgcaaa cgcaggagga agatgtgttc tatcggaatg gtatcggggc 1620

<210> 1793
<211> 5777
<212> DNA
<213> *Aspergillus nidulans*

<400> 1793

atccatatta cactgattgc ctcccttgtc ccccaaattg ctcttctctga tccccgtccc 60
tcctgtggc cgccacccc ccctccctgg acgacctcc acatgtcgga gtgtgcatct 120
taccgtcca gtatcacccc agatcgacc cattccacca ctctcgtcc gacggctcga 180
agggaccgca agagcgacc gcctcaccgg gtggcttccc ccttccctcc aatcaagctg 240

ttgagccctg tcagcttgcc tccaactggc cgacctgtca ctccccctca acccccctaa 300
 atccgcgcgc catgaataac gattcttttt catccttcaa atttcgccga ccatcgagca 360
 aactccataa ggaccctccc ggttacggat cccgcgcctt taacagccag cagagcacca 420
 cgtcactaaa acggcacctt tctgcccccg tttaccgcgc ctctcttgcc gctgggagtc 480
 gagagcattt gcgaactagg tccaacgcat acggctcgtc atcctcgta ctcgatcaga 540
 atagcgcggg cgcttctccg gttctgggga gcagcgattc tggccatttc cacagcagtc 600
 attcatcccc gtcccgacct ccatactccg gccggttttc cttgaacgat cagagctcag 660
 atgaattaat tggcgccccc ttcgattcgc ggggtatgtt aagcgccctg gaagaacata 720
 ccgctgagcc cgacaatagg agttatcaac caccagacct cgccgaaagg taaactgaaa 780
 agcccccgaa tttccgatcg cagactacac caaaccacg agccttgaga caatcagcca 840
 gtttcaactac tctgcctccc cgtatggagg cttttccgaa cgccgctggc aatgaccgcc 900
 cgacaaatac aaagcgtttt tccgatgagg ccacccctgt cagacctccg gggcccagcc 960
 gaagcaagaa aagcagtttt tcgagcttcg ttaatagcat gctaggttcc ccccgaggaa 1020
 tcaaaatttc tgcaccagag aaccgggtcc atgtcaactca tgttggttac gataaccaga 1080
 ccggccagtt tactggctcg cctaaagaat ggcagcggct gctccaggag agtggtatca 1140
 cgcagaagga acaggaggag catccacaga ccatggtcga tatcatgaga ttttacgaga 1200
 agaatgcccc aggggatgat gaagtctggc ataagtttga ccatgcttac cctcaacagc 1260
 caaccgcgc gagcccaata tcccagccag cgggctccac tacgtatggc acgcaacgaa 1320
 cgtctcctcc caccagcctt cgattccctc agaaccatga ggggagcttc gaaaaccac 1380
 gagcacgcc tccgattccc cgcgcgcgc ctatcgctgc acatgccatg tctccgcctt 1440
 taggagggct tgtccctaac cgcgcacctc ctaaaccacc aactgctgct gctaacttag 1500
 ttccgagtcg gctgcgccg caacctccta cgtcgagccc ttattccaat atctctacca 1560
 ggccatcccc ggagacgcag agccctcaat tcagcacgcc tcccattcca gaaacggagc 1620
 ccttgcttc cgagtcgcaa cgcagccgat cgaattctag aacaaatggg gcgcaaggct 1680
 catggccgct ggtgtcaccg agtcattacc aacaacagca ggagcaggca atggccgtag 1740
 ctcagcaagc ccttgccaat aagcagcttg aacggagccg tagccaacgt cagcagcaac 1800
 agtctccacg gccagaccag atgccgatcg cgcagccgc actcccgcag cagctcctt 1860

cgctgaaga tgttgctctg acacaagctt cccagactgc gcgtgctgca ccggcagctc 1920
 ggctcgcca aagaccccg ccaagtaatg ccatggatgt cagagcacga ttggtcgcaa 1980
 tttgtactcc cggatgatccc acaaaacttt actacaactt gaataaaatc ggtcaggggtg 2040
 catctggtgg agtcttcact gcttatgaac agcataccaa taattgcgtc gcgatcaagc 2100
 aaatgaatct ggatctacag ccaaagaagg atctcatcat caacgaaatt ttggatgatga 2160
 aggacagcaa gcacaaaaac atcgtaact tcttgacag ttatctccat gggctagact 2220
 tgtgggtggg tatggaatac atggagggag gtagtcttac agatgttggt accttcaata 2280
 tcatgagcga accccaaatt gctgctgttt gtcgagaggt acgtttcttt gagcgatatt 2340
 tgagttctag tactgatttc gtctcttaga cgcttaacgg cttgcagcac cttcactcga 2400
 aaggtgtgat ccatcgagac atcaagtcag acaatattct tctttccttg gatggcaaca 2460
 tcaagctcag taagtgggac attgcaacat tacgctcaga ctgaatttta atgattcgca 2520
 gccgatttcg gtttctgtgc ccaaattaat gactctcaga acaagcgaaa caccatggtc 2580
 ggcacaccgt attggatggc ccctgaggtt gttacgagaa aggagtagcg acgtaaagtt 2640
 gacatttggg gcctcggaat tatggccatc gagatgattg agggagaacc tccttacctc 2700
 accgaatcgc ctctcagggc tctatacttg attgccacaa atggcacacc taagatcaag 2760
 gacgagcaca acctgtcgcc tgtcttcaaa gatttctctc attttgcgct caggggtggac 2820
 cctgagaaac gagcatcagc tcatgaccta ttgaaggatg gattatgcat ctcaacacag 2880
 cagactggct ctaatccttt acagcatccc tttatgaacc tttgcgcgcc tctcaatcac 2940
 ctttcgcctc tagttaaggc tgcacggatt agcagggcgc aggaaaaagc ccagaagggt 3000
 ggtgtttaga tctcagcctg ttggcgtcct tatatgtcga tgtctactat attccttcag 3060
 ataccatta tcaatgatgt ttcactttta cccgatgatg tacctggcgc cgcttatgac 3120
 ttccccattc ttttcgaac cttctcttcc tttgcaggtc tttcggttat ttccaaacca 3180
 aaatgataga cggcgatgac ttgatgctcg acatgggatt acaaaccttc gactacttga 3240
 tgctatgctt agtatctctc tcttttgctt gacgacgttt ttgcataccc gtattattga 3300
 ccttcgtgat cagttgcctg taacatgatg actcgcgtca ggctgatgca ctcccttctc 3360
 gcgcctgtgg ttacagcagt ttgttttggc tttggttgta tcggccaccg aaactgggtg 3420
 atgctgcgaa catgagacgc ttgagtcgaa aatccgatgc gaatgctgga ggctatcct 3480

atggctttat tctgttcaa gcagttgtac ttggttcccg acgttgctcg agattctaga 3540
 tgatatatcg atatactcga tegtatgacg atcgaacaaa agtatatggg ggttttcttt 3600
 acggttctaa atgcttccta tgtcctctca ccatataata ccgctagagg cttatatagc 3660
 taagcactac cataataaca tctggaagta ccaagtgggc caagactaaa ggaaagaata 3720
 ataacagtat tagtgggtgcc ttaactgtgc ccggggccaa attaggtaag ctagtgggtct 3780
 ccgcccctcg accttcgtca ttcggtacag gttccagcaa ccattctaca tcttgttgcg 3840
 gttgcacctt ttgcttctct tagaggctct ttgccagta ccacctgaac ctttggacat 3900
 tagcttatct tcaaacttgc ctttttattg ctgcgaaaat ctccggccga cttctcttga 3960
 gcttctgatt ccccgacca agtgttctcc ggaccttgga tcgcagcctg agctccgtat 4020
 ccacgcagct tgcagctgag tgtcgttcta ataacatctt atcaaggatc gcaggagcac 4080
 aacaatcacc ggcaagcttc ggtagcctcc attttacgga aagatttatt tgatcaatac 4140
 ctatcggcta taattcgatt tgctctgaag gcggagatta gaaagttgga cactcgcgat 4200
 gttccgcgca cagcagaacg cttttgacga tgcagtcggt acggtgcttt tgagcagtat 4260
 cttttttgat gaaggggggt tcttagcttc tatatgctaa tcgctcgctt ttcgcaatag 4320
 ccaaagcaac ggatgagaac ttgacctccg agaactggga gtacattctt gtatgcaatg 4380
 cccgtgcat ttccaagaca tgcccttttg gatcagttaa gcatagatca tctaacattt 4440
 gatgtcgcgt tcacaggatg tatgcgataa ggttggggct gaggagtcag ggtaggatac 4500
 tggctcttga tcattgacaa gtgatgctgt tgaacaactc cactgactgg aatcaaatac 4560
 agtgcaaagg atgcggtcgc cgctttgatc aagagactcg cacataggaa cgccaacgtg 4620
 cagctgtaca ctctcgaagt gcgtgtcaca atccttccac caactgcgcg agactgacgt 4680
 tatttagctg gccaatgcat tagcgcagaa ttgcggccct aagatacatc gcgaactggc 4740
 gtcacgaagc ttacagacg cactcttgcg tctcgtggt gatagggtat gcctccacct 4800
 tagtctaacg gatcattttt actgactggt ggaacaagaa cactcatcag caggtgaaat 4860
 ccaagattct ggaacgtatg gaggattgga cggagatggt cgctagcaac ccagatttcg 4920
 ggattatgga acaggctttc atgaagttga ggacacaaag tacgcactat tccgtttcct 4980
 gaataggctt tatagcttac atctccaag acccgaaact acaacccccg tcgaagcccc 5040
 ggaagcggga gattaccgac ctagatcgcc agaaagaaga ggaggaattg cagatggcgc 5100

ttgctctttc tataagagag aaatccggtt cagccctca gccgcaggtg gagagtagta 5160
 gctcgggtctc agctccagaa aaccaagcac aagctgcgcc tgctggacca gttccttcag 5220
 gtacttctgc tgctacagtt tctagagtta gagctttgta cgattttcag ccgtctgagc 5280
 ccggagagtt acaatttcgg aaggagatg tcatcgccgt cctagagtcc gtgtataagg 5340
 attggtggaa gggctctctg agaggccaga cagggatttt cccgcttaat tacgtggaaa 5400
 agcttctctga tcccactggt gaggaacttc agcgggaagc tcagatggag gcagaggtgt 5460
 ttggccagat caagaatggt gagaagctat tgactcttct aagcacgcgc agctcagaac 5520
 tcaatgtcca ggagaatgag gaaatcacia acttgtacaa ctcaacatta tcaatccgcc 5580
 ccaagttggt tgagctcatt ggaaaatatt cgcagaagaa gggatatgtct cccaactcct 5640
 taggtcagtc tctttcagtt actgacttac actcgcagat gagttcactc aactcaacga 5700
 aaagtttata aaagcgcgaa gggactatga atctctcttg gaggcgtcta tggctcaacc 5760
 tccacagcag caatttg 5777

<210> 1794
 <211> 6582
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 1794

gcgaacgggg tgaatggagc tgagtaggag ctttgatttt gttttcgtgt tgtgttcata 60
 tcagactgta ctttaacttt actgcgccta attgatccct tgcacgtttg tacgtttttg 120
 ttcttgacca tcgtctttcc ctaagatgaa gacagacggc acgcaactcg cgctgaggca 180
 gtagcgactg tgaaaggcac tctgcctcc cagaaaaacc cttactactt gttactatat 240
 acaggataag gctccttagc caccactgac tctaggcgnt ctttgcattg agcagctgct 300
 gtctacctca aatccagcgt tccacatcaa aattctcttc agcagattta ttatgggcag 360
 cacaagcgat cttcagttgc tctctgatga actccgctcc acactcaagt gtcccatact 420
 taccacagac tctgatggtt acgcaacaag tatcctgcga tggaacgacg cggtgccgaa 480
 cgctgcggta tcttttcgct ttcgcttgcc cgtgcctgga acttgctcgtg ctgactttct 540
 aggcctcgt ggtatacccc gaattagtcg atgacgtcgt aactatagtc cgcggatgcg 600

tcagacacaa ggttccattt gcggtcgcct gcggtaaaca tacgacaagc accggctcct 660
 cgtgtgatgg cggcctcggt atcgatctgg cgcacatgaa ccatgtggcg gtggactcgg 720
 aatcgcgact gatcactgtc ggcggaggct gtcgctggaa agatgttgat gacgcccttg 780
 agggatatgg gctggccatg gttgagggta tagtgaatga tacggggggtt ggcggaatcg 840
 cgcttgaggg agggatatggc tggcttgccc caccggcacgg actgattcct gacaacctcg 900
 tcgctgcgac cgtcgtcctg gcagacggta gtatcgccac tgcgtccaca gaggagagac 960
 ccgatctctt ctgggctctt cgaggcgccg ggcaatgctt tggcgttgtc gtcgagttcg 1020
 tctttagggc tcacgagcac caggatccgg tctgggcggg cttgcttgga ttctcgctgg 1080
 atcatttaga agctgtcttt ggctttgcc aatcgtagt cgagagcacg aatggggact 1140
 cggtatgggt tattcagctg tccagatacc cttctcgcg acagggccgc gatgtgggaa 1200
 tcatggcaat cgttttccat tacggcgatg ctaaactcggc cgaaactgtc ttccagccct 1260
 tgttcaacct gggacctatt gtcaacacga ccaaggctca gtcgtacgca tccgtcaaca 1320
 acatgttgac ggccgaggca aaacgcggtg gccgcaacgt atctaaaggc gccgcgtaca 1380
 cgacacccct tcgaccagcg tttgtgaagg agacgatcat ccctgaaatg gaaagacttc 1440
 acctgaagt accggggctg gatcggtcat taatagagtt tgaattctac aagccagaca 1500
 aatggtgtga ggttccagt acggccacgg cacacgggca ccgagggcat gtccagaatg 1560
 tcatgatcgg cctctactgg aacgatgagc aggacgacgt gaggatggag atgtggtcgc 1620
 gccacatcgc tggcctagtg gctgcagagc gagccagcca tggtaggcca gccgagggcc 1680
 cagttactga gtatgggaac tatgaccatc tgtctgcgca tgcgcgcgat gttttcgga 1740
 tcaactactc gcggctggtc cagctgaaga agcggtatga tcctgataat gtcttcaaca 1800
 aatggtattc cttgggtggag tagatctttc tgtaactgat tccttcgtat tgcacggcca 1860
 ttcttagact cgtgtatctt tacgggcggt ctattttatt ttgagttttt tttccttacc 1920
 aacagcttta gtaattcgat cgaaaaatca aaatctatac actcaactcg cgcccttggc 1980
 tgtttgagag gctgttttgt atggagaagc cagcacttgc tgcgtaaact taggccgctc 2040
 agcgacttta ggcggtgcgg aaaaatgacg aattagggct cagctaacca taccaatctc 2100
 gacagcaaac aacagcaaaa gctgacatct caccggaaaa gagccggcag gaaacgaaga 2160
 gaaaccagtg gacacaaaga cccttccttc caggctgtat tcgaatgggtg tcgacgcaaa 2220

aatcaggctg ctagccgcct cgtgcacagc cctgcaaccg cactgaagaa tttgccgcta 2280
ctcgcgacgg aattgatttc caacacgcac tgacagaaat tcaataatta gtggagcgta 2340
cccacatcga tctcacgctg atgcttagcc caattgatca cgaaagctgc gcctacacct 2400
gcctttcgat tggcatcggg cccctctgga tgcttatctc cagtctccgg cgccggacac 2460
cacatctccg ggattactgg aaactccggt cagcagagac atgacaaaat tagacactgg 2520
aagacccgga gctgggcaga ataagaccca ggcattccgt gcttagctag ctagctgata 2580
gctttatttg gtagccgaac gactgccgcg ttgctttttc cctgacggc ttacacgtaa 2640
cacataacac gtagcacgaa gtccggttac ggagggccgt tgtgcggtgt agcaccaaga 2700
aggatcggta cagagtacga tcgtatcgag gctgattgct tgaaggaggt ctgacaggtc 2760
tgacaccgct ggactgggtg cgagttacac tgccggttcg gttctttagt gtggagctta 2820
tcttgggcag gttgtctcct ttcccccttt cagtgtagtg attgggtgat cagtaaatag 2880
ataagtaggg ttgacagagg cagacgggca gattgaacgg cgggcgttgt ttactatcc 2940
aaaattctgg tagtgtaccg gggttaatgc ctgagagttg ggagatgcgc acggattgag 3000
acggaaaaca tatctatttt gtagattata aattataaag tagccgcca gcagataccg 3060
aattcttcat gtagaagaga gttgatatgg aagtcgcaa agaagcaca ggggtataat 3120
gagagaatcg atctatagcc agggatatcca cgatctcact gcgtcaaatt ttacctgcgt 3180
cttccactgc aggtttgcaa acagtgggga gagaaggaa gtctcgtttc caaaccgga 3240
attatctagc gcgcagtacc tcctgtcaaa ttcttgatc aggcgccta gcttggcgag 3300
ctcggcacgg agagtgttgg cgttgctgat ttgctccttg cggtggtcga tgggcgacgt 3360
tgaggctcgt ctcgatgatg gggttggcgg aggtggaggc ggctgctgct gcccgctcgt 3420
atcgctcgc ggaagaagct ggtcaaaggc agccgtcata tgatgcagga gagcaatcat 3480
ctgcgtaaga agaatcatgc cgtgagtacg gtggggatct gggcagttca ggacgttggt 3540
gcagagggcc atattggcgc ggtgctcggg taggaagtgc tcgaggatga aggtgcttga 3600
tggtgggtttt ggcattgctga gtcggtcaa cttgaagcta atgctttgct ggcaccagca 3660
ggtgactgag gctgggactg gtgagttcag gccgatgct gtggtggctg tgggcctgt 3720
ggctccataa tggtgtggc cgtcccgga gcttggcggc gaaatggggc tgagagggat 3780
cgtcatcgaa tgccggacca tctgtggtgc aaccgcaggc tgagtcgaag gaacaagacg 3840

cgagtctgga acatccagtg aaaaggggaa cgctgttgga tcggagagcg gagtatcgaa 3900
 ggggttcagc gagaggaggc cggcgagatc atcatctaca aatccttcag agtagatata 3960
 actatttccg aaattgggcg gacacgctgg ttgcaactgtg atatcgacag tcgtgggtggg 4020
 cagcgtttcc gaagagacgg gagatgggat ggagaggact ctcttctttt cctttggtgg 4080
 gcaggtctgg tetgcttctt ggcgaggccg tggccttttg attccgcgca gcgagatgct 4140
 gtaaacgcag ggtgtattcc gtgtagcaca gcgcggcgag gtcggtctat ccttagagca 4200
 cttaaccttt gcttggttgc actggccaca tgagcttctc agaggtcggt cgtcgcgatg 4260
 cgggtggcact atagcgggtg tggcagccgt aggcgagaag attggtgccg gcatctcggc 4320
 catttcgggc atggggaagg cgccaggctc agagtgatct gggcacgcca tctgcgttat 4380
 gcaatcgtgt cgttgacggc cgaacctgta ggaaatttct tcagaaatgg tggaaaatat 4440
 gtgcaaacia gatgggttagc cggcgagaca gctcgccctc ttataagctt gttaccaccg 4500
 ccctacacc aatcgtcggc agtgctcaat cacatattcc tcattggtac agtagccagc 4560
 cactatcttg gcaccatgat ctgcagtggg agagatcatg gggttcgatcg accgcgactg 4620
 atttactctg ctctgctct cgattgttg cctgatccgg ctgagttctt gggctgctgt 4680
 ttcttcttg ggctaacgga tctgaccgag gtgggtcacg gctcgtgtga agaggatcca 4740
 agagtcctga ctccatgggt ttcagccagc ctcgagtgcg tacatgttcg tgcagacaga 4800
 tacagccaag aggatcatta tcacgtagat cgtgaccac caatggccc tctcgcttcc 4860
 gtcagagcgg cgggatgagc tcgggagcgt cacaaccgac tccaaggta tgcatttttg 4920
 ctgggcatgc ttccataaca acaatggcct gtcttacgta acgggccctg acatatactg 4980
 gatcttgact gcaagcgcta cctgcagcca gccttatctt gcatcaggaa tggttcgccc 5040
 tctgcaacct cgtcacagta atacaagttg cgacagggga atccagttgg ccttcgagct 5100
 gaggtctcga gagaggagca cgtcaagtgg cgacaatgcg cctgagtatt gtattgcagg 5160
 aaccaatggc aacaataagc agtatgggct accgtcctcc ggtgcgcaat ccggattgtt 5220
 cacattcgag cggcatgact cgctcgatat gatcagcgat ccttgaattg gcgtcagaac 5280
 agtaaaagat cgcggggcgt ttatttattg caatagtcct cattgtgtgg ttcaactgga 5340
 tccttcacct caaggttttg acaatgacca agctttattc gtcatgatac tcaactgcgat 5400
 ccgtgcagca tgcggcgtga ctggagtcaa attccaaaaa aaggcgatct gagaccata 5460

atcatggcag cagcgattgt gctgggag atcggaataa gtatcttgaa gcagcggatc 5520
 ctggagatag tagacagcat ggtcaaggag gctgacgtgc agtcggcttt cgccgtgttg 5580
 tgattttgaa gttccaggga agcactcttt gagtctagac aacggcacgt gtcgctgact 5640
 catcgccgta atcggcgcac aaacactggc tgagtcagcc acggcctccg aatatcgcta 5700
 gttcatctct tggggctctcc acggtctaca ccgagtcgca cactacaacc acgagagaaa 5760
 gacaccacca cgattagttt gcgagtgcat aatgtccttc acggcccgat cattacggca 5820
 ggtgcttaca tctacttcac gtaatttcca ttgttcacgg accatggcgg catccgactg 5880
 gagtgccaga caatacctta agtttgaggc tgaacgcaca cgacctgctc gtgatctgct 5940
 cgcccagggt ccactcgatt caccacatcg cgctcgtggat ctaggctgcg gacctggcaa 6000
 ctcaacagcc gtccttgtat cccggtatcc agatgccga gtgacaggaa tggactcgtc 6060
 tccagatatg attggaagg ctgcgaaac cctcccggga atcgagttta cagtcgatgg 6120
 cctcagtacg tatacaccta gagaaccggt agacctatc ttctccaacg ccgtcttcca 6180
 gtggctaccg cgggaccaac gtctggaaat catcaaacgc cttattcagt cgcagccttc 6240
 aggcggcgtc tttgccttcc aggtgccga taatttggct gagccatcgc acgtcacaat 6300
 gcgtgaaatt gccgcaatg gtccgtggc gagcacgcta caatccgttg ctgcgaaaag 6360
 ctttcaatcg ccacatgaac tgtacgatga actgaagccg ctctgtgctg aggtgaatat 6420
 ctggcatacc tactataacc attcgtgga gaaccataag gctgtcgtag aatgggtcaa 6480
 ggggacgggc ctgcggccgt tcattgacct tttgtcgcag ccggatcggg agtctttctt 6540
 aaggcttact gggtcgtcgg agcaattata tctgagagca ca 6582

<210> 1795
 <211> 1065
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1795

gagcttggtg ctttcgcaa gcttgagccc gagttcactg ctctggcgt caagcatgat 60
 cggctcgtg cgtggacacc gttgtgcccc tcatactagg tcccttacta actcctcata 120
 gagegccaac ggactgaatc ccacaaggcc tggatcaagg acattgacga ggtcaccggc 180
 tcaaagctga ccttcccat catctccgat cccgagcgca agatcgccca ccagtacgac 240

atggttgact accaggacac caccaacgtt gactccaagg gtatgtggga tctaggaata 300
 tgetgaactt gagcttctct ctaaccactt tcccgcaggt atggctctta ccatccgttc 360
 cgtcttcata atcgaccctg ccaagaagat ccgcctcatc atgacctacc ccgcctccac 420
 cggccgcaac acggctgagg tcctccgtgt cgttgatgcc ctccagacca ccgagaagca 480
 cgggtgttacc acccccatca actggcttcc tggtgacgac gttgtcatcc ctccctccgt 540
 ctccaccgag gatgctcaga agaagttcgg cgacgtccgt gttgtcaagc cgtaagttca 600
 cccgagcctg gagcattcat cagttgtttg gagcagttga gcagttgcta accatctctc 660
 gtgcagttac ctgcgtttca ccaacctcaa gaaggaataa attggaaaat gataacctcat 720
 aacctatcta cgactaccga tctcaagggt agggagtga cggtggttat ggaaatttgc 780
 ctggataact tcctggtcgc agcaaaaaga aataaaatct caggcgtgga tttgtttatt 840
 tcgataccta atgatacaat gatcaaagat atcacgttat atgaacagtt tgtggctctta 900
 gttaccctcc gtaggatatg caaacgcaca tttaaccag agtgcagctt tgaccctaaa 960
 attggtggtt atatatattg tggcgtagca acgaaccgaa ccgcgcaggc agacaggaat 1020
 catactcgtc accttgcata cgaccgtgga aattaatgca cctac 1065

<210> 1796
 <211> 3275
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1796
 gatggagatg ttattatggc tgaggccgga gacactgatg ggaccggccc tgccgagtga 60
 gagcttcaga atcagatctg ctgcgccgca gtctatgcca ctgttaacac tcacggaaac 120
 agagttggac agcactcaaa ggtcgccaaa cggcttagat gagcacactg tattacgacc 180
 atcggatcca gacccttttc tcaacgtggg cttagataat gttegggtcc gcagccgacg 240
 agggctctgtc gctccgttaa ccccgaggga ggtatctcga gatcaacagc ggccatcctc 300
 tacggaacct ccatcaagta gttcatcggt tcgcagtctt ccggacaact ccactacccc 360
 agtagcgcaa aaggcacggc gcgaaccaag caaccaaatt cggggaatct ttcccgacac 420
 tatacttggt cggtatcttc aaaacctcga attgcatgat cttcttcgtt tgcgcgccgt 480
 gtctctctac tgggtctgaga tactcaattc atccccggat ttgcttcgct acttgattt 540

gagcgtgtat aatcgctgcc tcaccgatga cgtactggcg aaaatcgtct gtccttcgt 600
cggcaataga cctcgctaca ttgatatcag caactgcttt catatcacgg acgaagggtt 660
taatactttg gcgaacacct gtggatctaa cgttgtaacc tggaagatga agagtgtttg 720
ggacgtgact gcatccgcca tcctggaaat ggctcaaaag gcgaacggcc tgcaagaagt 780
ggatctgagc aactgtcgaa aagttagcga tacgctctta gctcgaattc ttggatgggt 840
tactcctggc ccatataaac ctccagatga aactacaaag tctggtaa at cggttatcaa 900
accacagatt cttaccccgga ccggaacggc agtctttgga tgcccagagc tgaagaagt 960
gactctgtcc tattgcaagc atgtaactga caggctctatg catcacattg catctcatgc 1020
cgcttcaagg attgaagaaa tgaacctgac acggtgcaca accatcactg atcacggatt 1080
tcagttctgg ggaaacgttc agtttactaa cctccgaaag ctctgcctgg cggattgcac 1140
gtatttaacc gataatgcga ttgtatatct taccaatgct gcaaaacaat tgcaggaatt 1200
ggatttggtg cgcatacttt tgtctcttat tgtgatgtgc tcgctaatac atgttcttag 1260
tcattctgct gcgctttatc agacacagca acggaagtcc ttgctctgca atgttctcaa 1320
ttgagatacc taaacatgtc attctgtggc tctgccatat ctgatccgtc attacgcagt 1380
attggactgc atcttctgca tcttaatcgg ctctcgggtc gcggttgctg tcgctgacc 1440
ggggctggcg tggaatcggc agcggatggc tgcaccagc tgaaagcttt cgacgtcagc 1500
cagtgtgaag atttggtacc ctggcttgaa tcaggaggaa ccagaaata caatggtaaa 1560
atatcattcg acactgttgc tgtgaatggg aggetttacc gatagccaat gctttccgca 1620
gtactatcca ccttggcact tttgtcgcat cctcccctat accaaatatt attgcttaat 1680
acagctttca tcacgatatg ctcttattcc tccatctcg acttgattac gacttcttgc 1740
tttggctact tcggttggtg atccctgctg gatccccgcc ggagtatatg tacttgtctt 1800
cactggtcct tcaagggttt ggctgatggc gattacgaag cttactgcat tgccttcatt 1860
tccttggcgc gttggctctg gaatgcttat atcacggcct tattcgatct tcgttcagt 1920
cgtaccgtcc ttctatcctt tttttttttg ctacttttgc tcaggtgctg ggggggacag 1980
gcatgggagg agtttgagtc tgacacgggt ataacagtat ctctatttca tattgcatgt 2040
tggagctggc caatttctga agattctacg tgtatcttag atttcttttc tttccattga 2100
atatgtggag tagggagttc agcggcgagg gctttttctc tgtctgcatt ctattttaga 2160

attcattgaa gctcaaagcg tgtagatgaa ccatttatct ttgtttagt aaaacaggat 2220
 ctttcgcatt cactccaggc ctcgttgggt gttccagcag ccgcttttgc gaccactggg 2280
 tcttatcgcg gaatcctggg ctattaatat ttgataagga acaggctgtg aacgggttcgt 2340
 gcccgttaag acattgtgag cctcaaagtc ctttagtatg ctatTTTTga agcggtcagg 2400
 ccaacgcaga ctcgactaag tattcagaag tttatctcaa catccaacat cgttatcttt 2460
 atatTTTaat cgcagTTTTg agcatttgta tcagttcctt actgctTTaa gccttaatgg 2520
 cccttacctt ccacgggctt caacaccaga aacacgccac cgattctcca ggatgtcacc 2580
 gaagaggcaa cgcaatgtct acgacgagga tgacgaccac gattcatccg ctgattcgta 2640
 tctaagtaca gagtatctta cggtcgtcac tattgatgct cctacctata ctcttaccga 2700
 aactctcacg gaggctacaa caaatactga tacacctgcc tctccaacag aggttatggc 2760
 aaaagttcgc aagccataca tgcaaaaggc tggacctaaa aacgctgcta aaacactggc 2820
 tagaccaaga gagatagcag gcagggagga gaggagactt ctccctgagg tcacaagcag 2880
 ggtcacgaca gatgatactg agtcctggca gtccgcatac atccccgggc catccgaata 2940
 cacgggagtg ctagacacac aaagcccaa tagcccttcc atgcaaacgc cagttaacaa 3000
 ggacgacccc caacctgcta atactaacgg caggctgtca gaatgcagcg ccttgccact 3060
 tgcgtacctc gtttcgcctg atgtacgaag ccctggaacc cttctgcgc ggatgactgc 3120
 ccctgcccaa cataggtagg aatgggtgtct gctcctaacc aagcaacttt tattgggtatt 3180
 ctttccccc aagcccctt cttttaccc accaacaccc ttggttTTaa cccattgggc 3240
 ttgaaccttt ccggagtttg ttggacagat acctt 3275

<210> 1797
 <211> 1459
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1797

ttccccggtcg ataatacgac tcactatagg gatcgaccga gtatactagc ttttactaac 60
 tgaatatatc cacaattgtt cgtcgaggat aggaacagtt cgaaatggaa gattagtatc 120
 aacaagcttc tggaagtgga ggagcacgtc tggtcaccaa tgtatggcct caaaggcaac 180
 attgattgca acagttcaag ttgctgcaa tgaaggggaa tgtgacaaaa acctagacgt 240

accccttgag cttagaccg gctataagga gacgaattat gcccatcggg cccaaaccgc 300
 actctatacc ttgctacttt atgatcgaga cggacagcat aaactgggct ttacttgta 360
 aacggcatct agctaactgt gctttcttta taagggaag taacatttgg gcttctatat 420
 tacctcgaga cgtcaaaaat catgcgaatc cggggcatac ggcacgagct tttgcacatg 480
 atacaggagc gtaatcgggt tgcgggatat gtgcgggaga gaacatatat accgccaatg 540
 cttaggaagc cgtcgatgtg caatcgatgt tactctaaga cagcctgctt tatctaccac 600
 aaacttgctg atgacggaaa tggcgaaacc agcggccttg gtgaagagtt cgataaagca 660
 atggagcacc tgaatccctc acatcgatgac tttttccgga aatgggacga ccttctcacc 720
 aaggaagaaa cgagcatgat gagatttaag agagaactat ggactttgct cagccatgag 780
 cgagaagcgc ttggacgttg tttcggtaac atcgttattg agcctggaac agcctgcgag 840
 gacaaagatg ggactaagat caatcggtag cgctatacct ttgttaagaa acaacagtcg 900
 cccacatttt cattcgctga atcccagatc accgtcggag agcctattgt aatttcagac 960
 gagaagggcc attttgctct ggccaatgga tatgttgtgc aaataagccc taagcgtgtt 1020
 actgtcgcgg ttgatcgaag acttcacaac tccagaacaa aggcaagtgg atttgactct 1080
 attctgaacc aatctttcag gggattatg gagatagagg gtgacacccc tccatctgag 1140
 tctgcggaag agacccttta tcggctggac aaagacgagt tcagcaatgg aatggctata 1200
 gtacgaagca acctaattgc gatgatggag aaagatctgt tccaggctgg gcagttgagg 1260
 aaactgattg ttgaaggaaa gcctcctgcg tttaagccga acgttcctga gctgtccgga 1320
 ttaggcatgg cgggcctaaa catcgatcag aaacaagcga tcaagaaggt tatgagtgcg 1380
 caagattata cacaggtgct gggaatgccg ggaacaggaa aaaccacgac cactgggtcat 1440
 attcttcgag cccatgttc 1459

<210> 1798
 <211> 1967
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1798

ccattgactt gcactactac ataccgcgcg ttgagcacia agcttgacaa cgacgacttc 60
 ttcaagctgc ctctgttcaa cgttaggtgc aactgctgta gctgaaatcc cgtttctcgt 120

gcgctcagcc ttgctgggcg aagggaatgg ggatgggagc acattgcaag gagtactgga 180
 atgctggagg gaggcgacaa gataagacat ccggtttgag tggaagaaat tcaggctcca 240
 gttacaccta gcatcatggg acgactaatg gccggggaaa gataaatgtc gcttttcagt 300
 tcatgctaga aatgagaggt ctgccgtgag agaacgggct gggcaatcag accttggcgt 360
 cgtggtgccc tgacaaactc ccagtcccgg acacatccag agctctgctt tataatacgt 420
 caaaaagccc ggctcagata tcaaggcagc ctgcgagtct cctcaacggc gcaacctcct 480
 gagaccggtc aagtaacatg tcagccctga aagcggctctg gagtcattgc gtctctttat 540
 actgccgctc gtaaagggaa tcttggtgag agtggcgctt gactcatcca agtgcccaa 600
 agccggccag tcgtctaagc tcagggcggt atcggcatgt ttaggactgc ctgagataac 660
 taacaacgtg ggggtatccc aaatccccct gcagacggag tcgcagctcc gggcccatcg 720
 gccacagaga caacaaactt aaaaagttct agatgcctca ttccaatgct tgcggcgct 780
 cgaatctaga gatcatctg atcttagcga cagcgacaat agatccgtca gtcgcgga 840
 actattcaaa cgagaataaa acacctggga gcgactttag tggttctcga gacaagacga 900
 acggccttga acacgaagta atcggccgag actgaggcgc aacagcatag ttgtgcgacg 960
 cgtggcaatg gagactatca ttgccatgcc cgcagaatct cacgctgaca agatggggga 1020
 tgatgcatca ttgcaaagtt tccgccagcg acccctctgc gtcacatata ggagagcagc 1080
 agcaacaagc ccgaagacaa cgcagatgat tcaacaaagc gtgcgacatc acctcagcct 1140
 attcttcaga cactcttgag acgcccgtct ggagtgcagg tgccaagtcg gccatcgcca 1200
 gctgcattct gtagcattct ggccgtgcca agcagcctca tgccaccggg gactcgggag 1260
 acattgctcc tggaaccgga agatcttcgt ggatgttact ctgtgcggta tccagagcac 1320
 gtatcggtc ggccgccatc gccattgtat gacatggttg atgcccagaca gacgccttgc 1380
 cccttgctc gccgtggctg ccgtggtctc tgggtggtgac attagctgca agtcatacat 1440
 gccgagagac ggggttcgag gaaaggtagc gtacagtaca gcgtaaaaag tatcccgaac 1500
 cttcattact gatctcgttc atgaatacgc agaccaggac gaagaagagt ctttggcgag 1560
 caataatatg aaataattta gtgtgtccct caagcgacga ccaggcgctg aggcgcgaaa 1620
 ctgagctgac aaggataaac catgtccctc gcataataga cggctaggat atggattgtg 1680
 aggcacactc acccgggata gcccaattaca gtaatccgag ctcaacttgc cgtccgactc 1740

aaatcggctc ggacgggcac agccgcagtg aggaatgtgg tcagattcga acgccgtggc 1800
 ggtcggcgcc aatctgccga cgaagcgaag agcgccgaaa aagagcacta cgattcgaca 1860
 acgagcaacc gatccaatgc ggcgtcgaaa gccttacttg agacgggttag aggtcccgcc 1920
 ggctaaaatg ttttgcgcaa atgggggaag atgggggagg tgtaaca 1967

<210> 1799
 <211> 4479
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1799

tagacctgcg gccttgaacc ccgacgccac ggagtcgtta gaactatctg agccttcaga 60
 gcttccagaa cccgatgccc caccacgtcc catcgctccc ataattgcag catttgacca 120
 catgcgcgtc cgcgtccgcg atatgtacac actggaacaa tatgcacctg ccgttgagcg 180
 cctcttcgat atcatcgagc gcgcctccaa actcgaacag aaccaagcgc gagaaaagcg 240
 acggcgtgag gtcgaggaaa acgagaaacg gaaggagttt aggcgggaga acaagtttaa 300
 aacaaagcag gagcagatga gccaggagca aagggaatg gcaaaggcgg agaaggaagc 360
 ccgcgtgtct gataggctct cttctcagtc tcggcctcaa tctcctgatg ccaaggctct 420
 catctgggat gccccggaga gtgagagtgg gtggagtctg gatgagtctg gaaaggatgc 480
 ataagtttta acgcttggtg aggatctaca gcagaagcag gaaggagcag gggcgggcca 540
 gttgggattt ttagcggatc ggagatcaag aagggttgggt aaacgtgcca ctcttttggg 600
 ccaggccatt tgccatatat atagtatttc ttctttcctt tcactctcat actctctggt 660
 tttgtgagtt gagggattga agtacatttt agatgcatga taaaactcag acggtgtaca 720
 tagacgtatc cgggctcttc ttggtaacca tgcactttat aatcctcggg attatagaag 780
 ccagggttttc ctgagcaata caatgtaatg ccttagcctg attaatatgg accatactgt 840
 tagccattag taattatgga accaatcaaa gttgcaatca ctataatata tacattctca 900
 gattagactg tgcattgtag agaaattgta tgtacacacc ctgtaacccg cgaccttcta 960
 tcacctgaac gatactcaga ctagaaaccg gaaatagcct tctctttctc atccttgcca 1020
 tacaaccctt caccagatt ttgaacgcat tcgtttttcc aattcttcgg cgtaaattta 1080
 tcaacgattt ccttaaacgc ctccaatgtg cagaacgtgt cgtcgccagg taagtgattc 1140

tctggcttca cagcacagcc agggatgcgc acgactcggc cattgtagcg aatacggacg 1200
taattctttt ggagggcttg gcgcgctgac tcggggagag attcaagagg cgtgcgggcg 1260
gtcgaagagg gagggagatg agtcttgctg gagtttgag aagatgagcc ggacaagaag 1320
gagaagaggc cactgccttg cttggggcgcc ggaagtgcgg tatctgtgct ttcagacggt 1380
gagtctgcgc gagagaagag ttctatggca atggaggaag taaaaggagg ccatctgtta 1440
tccagggtag ccagactgcc tagaatggcg gcgagagtgg tgtcatggca tccgctcatg 1500
gcgaacttga ttgccttgcc cttctccaca gaggaaccag aagcggcggc ttggctgcgc 1560
cagccgccat ctacggcagt ggcaaccatg cggtcgacga tatcgcccat cagagctccg 1620
atgccaaagt tacgggtactc cgtgctttcg ttataaccgg tgaaccactc atcgacggct 1680
atgtgctcca tataagctcg ggcttggtta ttgtagaatt ccgaggggag tcttgtggcg 1740
gggccatgag cgtctgtggc attaattgtg tctgtatatac cagatagtcg tgggtgagaa 1800
tcaacagcca ctcggggtga attctcaggc atccatttgc cataaacact gttgatatag 1860
tccatttctt cggaattgtt ccctgtcagc gaataatcgt gagtatatgg tcagcgtccg 1920
agcttgctga cgcacatttt ttggctgctt tatcggcgaa aagtctagca agctgtctga 1980
atcgacggca gctgctctcg ttgggaaaga gcgtctctc tgacacagac cgcgctataa 2040
tcaactggcg ttgaaagtcc tctgtacgtg cactagcggg atacatcccc cagaatgcct 2100
gttgacagaga ttccagagct cttggaatgg tcgtagcacg gagatacatg tctctgtgtg 2160
cggacttgat tttgggcatg aatccgagct gggtcacata cagatgtcgc agacgttggc 2220
cgagctggta ggtcgtctca cgtcctttat ccgttaattc gccgtgctga ctgtttggat 2280
cgcaattaga ataggctagg atccacgtag actgcccta ggcataactt gccatattcc 2340
ctcaatgtca ccacctgcac cgacagtcac tattgtttgg tccctatcgc cgaatgtctc 2400
gaacttctc cgccacttga aggcgttcca tgacgaaagg tctcattgc tcgcgggccat 2460
ctggaccatg cggcgggcaa cattgcagta aggccagtct tgggaggaaa agagtgggtca 2520
gcgggggaaa gcgaagacga gaatcgggat tatcgatatca attacatggg ggcagtcctg 2580
cctagaagaa tagattagct caagtaccgc ccacacgcaa ttgaattaag ctgtacattc 2640
tcaaagcgcg aagataccgg cgtgcgctcg cctgagggtt ggagttagtg aatcgacttg 2700
tgtagattgg ccgtggaaag ctctatctgt accatgtcgt aggaactggg aggggaagt 2760

agcagcgaga cctcgattgg gccatttcca aaaagacaga tcggcacgta caacttgaac 2820
 tagctggagt ttcaattcct tcgggtagag cttttcaact tcatcttggg tgtatgggtcc 2880
 gcgaggtatg agggtcgtca ttttgaagga acaatagcac ccggagtgcc cagtacaaca 2940
 ggaggtgaag gagagaaagt tcccagcgat cggagacgga cagaagacca gcggtgatga 3000
 cgcagaagca gcagcagcaa tagccaatca gctgacccgc accggttacc tgcccacgct 3060
 ggataaacag cgtactccat cgaggggtcag taatctctgt gctgttcgtc gcttgccctac 3120
 aagctttaat tgccccagt ccacatgatg cttgtatctg gttataactc aaaaaagctg 3180
 gagagttatg tacataaccc ggagcggaca gcattagacg ccaagcctta tttatccccg 3240
 gcttatcgcc agagcacaac ctcaactact actgtccact gcagccttct tcaagtttct 3300
 ctctcaacgt ttccacttga cctgccagtc gatctgaacc ctgcgaaagg aaccatttga 3360
 acatacacct ccatcttaaa gaattagctc ttcgaaagac aactcctatc ggccaggatt 3420
 cctctctatc ttctccgcac accaactcca catagcacag cccaggacct tttatgtgtg 3480
 cctagccaac gggcataaga tatatatata cactcagaaa ctacctttgt gttgactgaa 3540
 ctactttatg cccaacatgg gtgtcttgtt ctgagctgag tcgctaaatt gttcgccctgc 3600
 agcgagactc tgaagtcggg agtgcgggcc atctcattac ggagacatta aactgcctaa 3660
 atgggctttg ggaggccctt acaattacac tagacgcttc gaattatcag accttaactt 3720
 ttattctatt ggtgccgcg cccgctcagt accttgcaat cctgagcaag aactgattc 3780
 ttcccttcat cttcgcccca tctcaagggt cttcctggaa tacaacattt ctggtaagta 3840
 cttattctga tatactgtat tctctattcg aggattgacg ctcgataagt gaacctgaat 3900
 agccattgag atcacccggt ccggtgataa agtggacatc atggaggtaa gaagacgtga 3960
 tttccttgtg ttatttgtgc caacgcatga tatctggcat tgctctgagc ggtgtgggcg 4020
 ccatccatta tcctcttccg aaacaccagc ttggtagcca caacggcaac ttaaacttgg 4080
 gaatgcgtta ctggtttcct ctcggttac gggatggtgt ctgctgctag aggtcgtacc 4140
 ggcaatgtac gctcggtatg tcttctcttc cataggggtt tcagattgga cacttatcca 4200
 atggaacccc gttgcgcgta atgccacggc gagaatctta cactgtatct ttcactggta 4260
 cccggtctcg atagatatct attctcaaac cgcattgatt tgcaagaggg acttgccagt 4320
 tacagaacca gtacctagct aagatttgag aattcctgca ggtcgcaacc acagcttcag 4380

ggcaggccac gaggggtcaaa tcccccaagc ctcatgattt caagcctcgt cttctaataa 4440
 taaaacttcg tcggtatgat cctagttgaa agaccatat 4479

<210> 1800
 <211> 3064
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1800

tgtaggctga gccgattacc cgcggagtat gcactggaac tgctcaagtt acagtggaga 60
 aagattatctt gcttactggg gggcctgatg ctaggcatca ccatttcatg taccattcac 120
 ccatctctcg cctggaaatc ctagtacacg caaacgcccc attggcctct cagtatgcc 180
 ctgctccctt gcaaggtaat ggcttagagc aaccgacccc ttgctcttcc acgcgtgtcc 240
 gctggccttt actatgcgtc ctgagaccaa ttgggcctga gtatctataa ctctagaatg 300
 actatgcact atttagagcc ttctttggag ttttttcgta ttggggcaga taatagttga 360
 gatagcgtag ggttcgaatg tcatagcacg aacggatggg atgcgggaat agggcgctga 420
 cgcaggagcc tgcatttcca atagtataaa tcaacgaaac agaactgacg aagtataata 480
 tgttccatca gcgaccagca agccttggtt cattgcgacg gcatagtcta gtgtggatcg 540
 gccagcagaa attttttgcc ctcaattctt ctgcttcttc tagaagggtg gttccgggtga 600
 tgaagctcgc aacgcggctt ccaggatctt cacggcatgg ccgtttccca acagtctggg 660
 ccttgcgacc gggtcctgtg taatagcgat gtgcggatct gaatcggccc ggcaaggctg 720
 tgggcccgtc ggtgcagaca taaggcccca aatatatgga gttgcccctt ggcttagccc 780
 cctgattcgc ccttatatct tagcaacgtc ttttgtggtg cgatactgtt atcacaagat 840
 tggctcggta tatgccgtaa gatcctgcta cggagcgttt gcgcgaatct ggacatgtga 900
 caagctctgc tgtggccgca gtcggaagat acttcaacct gacaacaaag gtctggcgcg 960
 ctgcgcgatc acagtatggg ctatgacacc ggcggttgaa ggagtggagt tctacattg 1020
 ctggacgagg gcctctaata gaagggaccc tctctcacgg tcaatcgcag ctgacattga 1080
 ggggatatcg atctcagaaa gagatcagcg gtttggggat atcacgcgaa tgggttcaag 1140
 ctgcgctgct gagaggcatt ccacatatac ccgaccctcc tcacatatat tgcccggcgc 1200
 ctgggggagt gcggcaacgg aaacgcttac ggatgtcggg caggatgcgc cgacatgctg 1260

accctcgctc gtggacagta gaacaacgtt atgaaattgc gactgagaac ggccagctag 1320
 caccagcaaa atatactctt agtcggcgca taatagcgac acacataaac cacgtcctat 1380
 gacgaaaggc gtgggttttag aggtggcggc tggcggagtt tagatagatg ctgacagata 1440
 cgcgcatagg tgtcccttta tttaggcaag agggctctca ccggggctag tgtcgtggtt 1500
 tgagcgtctg gaaagcaggt tcggacactc tttccataag gctgatgttg cggaatcccg 1560
 ggctagaga aattccctcc agagaaacta ccttataggg cgtttgtcgt gatcaatgta 1620
 caacgatgaa cataaggagc gcggtatttg aacctgactc ttcaaattac gatggatttg 1680
 tagcactatt taccgagctg tggctatgta atgatgaacc acgcgaggag atagtcgcca 1740
 atcaccataa aaccatccac cagcatcaag aagttagcag atggaacgat ctgccttctc 1800
 ctcgagctcc acaaggtttt tgtttccatt gctcgcagcc gatctcacia tggcacatgg 1860
 cgtttgccgc acatggcacg aggtcatctc gcgcagccgg gtcctccagc ggagaatctt 1920
 cttccaaaca ggtataccct gtctactgtc tgagtgaatg atacctgtcg acttcagcta 1980
 cctcctgtga gtgatgtccc gggccttcta gcccacgac gaaacactcg atcggagaac 2040
 gcttgcatcg gaacaagccg cgagtcctgc ccgcccggcc agacatgctg caattgaaaa 2100
 tccagaccag tagccggaca gtttgctca ggaggcttcc tggcgccgca tttcccttgt 2160
 ggcccagcgc cgcagctggc gaggatggat atctggcgtg ctgcgcgggc gacatgatat 2220
 ccgcgaccgt tgcaccccag caacggtcag gtaattagag catgggggtca cagacgggac 2280
 tgctcttgaa cgacattatt ttcgttattg caataattta tatggctggt tcatcgccgc 2340
 gtggtagagg aacggaatcg acatggagtc gaaggcgaac aagaaaaaaa gcgttctctg 2400
 gagtggcgcg tcaagaccga gtaccagtgg gagtatatct tagtgtgagg aagtataccc 2460
 tacagcggga ttgaagggtg ttgattataa ggatgttggt gtgtacgttg aggacgacaa 2520
 gtctctcatg gatatggacg atgtgcggct gggcgtgcgc aggaggaact cggccaggaa 2580
 aagagtatat gcgccgggga caacaatgaa taaaggaccg agaaatcccg agatccattg 2640
 ttctggctgt gcacggcgct ttagaacaag acttgggatc tctcgcactg atattctgca 2700
 ttgctcattc gttttgaggg aaaggtagca agtcatgcct aacaaccgca caagtccgtg 2760
 tgtggcaggg tacagagcct cccaatggca ttgaatcagt cagccactag aagaccccat 2820
 ttattgggtc cccaagaacc tctctgtgtc aatgagccgg ccagcggtat cttactggat 2880

ctgggcaggc tgggcttgct gggcgccatg ccaatctcct accaaaaacac gagcgaggtc 2940
 ttgcactgcc ctgacgatga caataacaaa aaaaaaaaaa aaaccaactc tattcagcat 3000
 ctatagatag taaatctact cttagccaat tgcaacaacc acctcttgtc ataagtccga 3060
 gtgt 3064

<210> 1801
 <211> 3781
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1801

gtttataaaa aaagatgaat ttaaattattg aaagattaat tgtatatgaa agtaaaagag 60
 aaaaatggaa ttaagaaaaa taattaatag aatagaattg ttaaaggttc ataattttat 120
 tatagtgtta atactaggga attattcaaa gggagagaag gaaaaagatt ccgatgtggt 180
 gagaaaaggt taagttttca atataaggca ggaaacgttt taaagtatat atatgccttg 240
 gaggtttacc cctattgggt aaagggtaaa aaaatttcta ataggaggaa aaatttttgg 300
 acatggtttt tggggaagtt gacccctttt aaccattttg aggtccccgt cttttcgagg 360
 gggttaagtt ccccttttac ataaagcttc caagaagtgt gccaacgcag gggttcttac 420
 ccttgccagc caagaagagc ttaacagtgg gttcactcag caaatcgtca agaactcgca 480
 cgttgtgttc accatgaacc cgctgaaga aggcctatcc tccaaagctg caaccagtcc 540
 ggccttggtc aatcgttgtg ttctcaattg gatgggagac tgggccgacc aggccttttt 600
 ccaggttggc tctgaactta ctcagtctgt cgacctagat aagcctggct ttgttgctcc 660
 tgatagcata ccagtggcat accgtgagct gagcctacct gcgtcacacc gtgatacagt 720
 tattaatgcg atggttttaca ttcatcactc gcttcaacgg ttcaatcaac gtctgcagaa 780
 gcaacaagga aagacaactt atctcactcc gcgtcactat ctggatttcg ttgcacagta 840
 tgtgaaactc ttcaatgaga agcgcgaaga ccttgaggaa caacagcgac acttgaacgt 900
 cggcttagag aagttaaggg aactgtcga gaaggtcagc gatctacgtg gcagtcttgc 960
 tcagaagaag atgcagctgg agaagaagga tgcggaagcc aatgaaaagc tgcagcgcac 1020
 gggttgctgac caacgcgagg ctgaacaacg taaggcagtt tcgcttgaag ttcaagctgc 1080
 tctggaagaa caggaaaaag aagtcgccct tcgcaaagac gtcgtgcttc acgaccttgc 1140

cagggccgaa cctgcagtct tggaagccca gaagagtgtc agtaacatta agcgtcaaca 1200
tctcactgaa gttcgttcca tgggcaatcc acctgctggt gtgcggctcg ctttagaagc 1260
cgtttgtact ctgctcgggc acaaggtcga tagctggaag accattcaag gaatcgtacg 1320
cagggatgat ttatttgcca gcattgtcaa ttacgacaat gagaagcaga tgacgaagaa 1380
ccaccggttg aaaatgcaga acgagttctt ctccaaggag gactttacat acgaacgagt 1440
taaccgtgct agcaaagctt gtggtcctct ggtgcagtgg gtcgaagcgc aggtcaacta 1500
ctctgccatc ctggaccgcg ttgggcctct gcgcgatgag gtcggacagc tcgaggaaca 1560
ggcactgcaa accaaagcag aagcacaggc tatcgagaac acaatcaatg atcttgagag 1620
cagtattgcy acatacaagt ctgagtatgc tgcgcttatt agtgaaacac aggcaatcaa 1680
ggccgagatg gagcgagtgc agttcaaggt cgacagaagt gtacggctgc tggatagcct 1740
gtcgtcggaa cgtactcgat gggaggaggg aagtaaactt tttgagactc agattagcac 1800
acttateggc gatgtttcca tcgcagcggc tttccttgcc tatgctgggt tctacgacca 1860
gcagttccgt aaggcgatga ctgaggattg ggttcagcac ctgggttcagt cgggcattag 1920
cctgaaaccg cataatccta tcacagaata tctgtccaac gcggatgaac gtctcgctg 1980
gcaagcgcac tcattgccgg tcgatgatct tagcacagag aacgccatct tcctgaagcg 2040
ttacaacaga taccgctca tcattgatcc ctacggccga gtcactgagt tcttgcagaa 2100
ggagagctca gataggaaac tcacggtgac cagcttctg gacgattctt ttgtcaaaca 2160
gctagaaagc gcgctgcgtt tcggaaaccc gatccttacc caagatgctg agcatttggg 2220
tccgatcctt aaccacgtcc tcaacaagga gtaccagaag accggaggtc gtgttctcat 2280
ccagctcggc aagcaggaga tcgatttctc gccctcattc aagctcttcc tttcgaogag 2340
agatccctct gccacttttg cgccggatgt ctgcagtaga accacatttg tcaatttcac 2400
catcacgcag agcagtttgc aaatccagtc gctgaacgag gtcctcaagt ccgagcgtga 2460
tgatgtcgac cgtcgccgtt ctgatcttgt caaagcccag ggagaattca atgttcatct 2520
tcgccagctt gagaagcgtt tgctgcaggc cctaaacgag tcccatggca atattttgga 2580
tgatgataat gtcacgaaa cactcgagac tttgaagaag gaggtgctg aaatctccag 2640
gaagatggct gagactgaag gtgtcatgac ggaagtcgaa gagatcactc agcgctacag 2700
tatcatcgcg cgctcgtgca gtgctgtgtt cgcggtgctt gaacagctac accatatcaa 2760

ccatttctac caatttctctc tccagtactt taccgatatc ttcgagtcag ttctgcacgg 2820
 caaccacac ctcgaaaatt caggtttacg gaagatggaa gattatcaac agcgcatcca 2880
 gatcattctt cgcgatctgt tcgtcactac ctaccagcga acctctttgg gagtcattca 2940
 gaaggaccgt atcacttttg cgatgctttt ggcgcaggcg gtccttacc ccatggacaa 3000
 aagcattatc gacaccatcc tcgatgaatc cgttgaaggt acggatttgt cggccaatcc 3060
 cgaggcgaag gtccaggatga tgagcgcgtt tgggaacatg tcgctattta aagcgcatct 3120
 tccttctgtg actgctgagc aatgggatca gttcctgggc gaagaattgg cagagaattt 3180
 cgttcccaag gtctgggatg agaacacgtc agagcttgac aaactacttc ggctcgtgct 3240
 gctcgtcaaa ctttgcagaa tggatagatt cgttccggcc gctgagcgat tcatcgtggc 3300
 cgtcttttgt cgcgaaactt atgaggggaag caccgatctc aaagacatcg tgggccaagt 3360
 taccgcaact gcaccaatat cccttagctc cagccctggc ttcgacgcaa gctacaaggt 3420
 cgatgctctc gtcgagcgca cgcacgcgac atgcgcaaac attgctatgg gttccaacga 3480
 aggtctcgag agcgccgaca agcgatcagc aacgccgcct ccgcaggaac ttgggtccta 3540
 gttagaacg tgcaccttgc cccctcctgg ctgcagagtc tcgagaaacg cctcgctccc 3600
 ctcaaaccac acaaggattt ccgcctgttt ctctccatgg aatccagccc caagatcccc 3660
 gttaacctca tccgcgcctc tcgcgtcctt atgtacgagc agccggctgg tgtacgcgca 3720
 aacatgaaag actcgtctc gtccctctca actcgtgcc acaaagctcc cgttgagaag 3780
 g 3781

<210> 1802
 <211> 4400
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1802

atgcattatg cggtgccgaa agctgagcaa aagtggctgt cttttttttt tataaaaaac 60
 atttctatcc ctatatcaga tccatggggg atcattacag atcaaacgac ttgtttatac 120
 aaggtcaggg ttacgaattc aaggttgaga aataacccta agtatgaacc caaactcaaa 180
 agtaggtaac cttaacctta cccaacctct tcagcctctg taaaatctct aacttcctca 240
 actccagaaa caagtcctga tcatcagcat cctccaaatc ccccgagata ttaatccacg 300

gcgtgccctt tgatagcacc aaatcccat tcattttcgc cgacaacaat ggtgacacaa 360
 tgttgctagg ggcagtggca gaagccgcgt caacaacccc cttatgaccg ttactcagat 420
 ccaccttctg agtaggcttc cctcagtgt ctctgtgctc cgttgcggtc gatttatcgc 480
 caaccacccc tctacacatg ctcaactgcct tttcccagag ggaaaattgc tcgcgggctta 540
 tgtcctgact cgtctgcggg cggaagactg taccgccggc acggttgatg tcgcgggagct 600
 cggcgaagtt gcgccagaga ccgacagcta ggctgcggc aatggcggcg ccgagggcg 660
 ttgtttcgcg catcttgggg cggtaaacgg ggatggagat gaggtcggct tggatcttct 720
 gcattggaaa gaaggatata tcagtatgga gtctctgtat ttaggcaggg gtagagagtt 780
 atccgttctg tacctgcata gcgagatccg agttgctcat tcctccatca acagcgagct 840
 cgaataggcg gtgtccgctg tttttctcca tggcattcag aattgccttg gtttgaagc 900
 aggtcgcttc cagtgttgct cgggcaatgt ggcccttctg ggtatattgg gtgatcccaa 960
 ctattttgta ttagtattag catatgaggg taaatttgag aagttccagc ttacatatag 1020
 ttccctttgc atcatcgatc caatacggag cgtaaagtc gctaaacgcg gtaacgaaaa 1080
 cacaccgcc gttgtcttcc acagttaaag ccaagtcgtt aacttcctta gactccctga 1140
 agaactctaa attattctga aggaatttga ttccagatcc accaaccgct atgcttcctt 1200
 cgagcgcata tactggtcgt ccacgcgaaat tatacgctat agtcgccaga aggccgtgct 1260
 tggagataac tggtttgtcc ccgacgttgt acagcaggaa gcacctctgt ccatatgtat 1320
 tcttgcccat gccgggggag aacccttttt gccctacaag ggctgaggac tgatctccca 1380
 agcatcccat gataggaacc cccgcaagcc tgccgttgga gagtgcaccg taggctgtga 1440
 catctgaaga aggaacaatt ttgggcaggt gtactcggcc cttaatgcca aagaaatcca 1500
 gcaagaagtc gtcgtatccc agtgtctcta ggttcatgaa cattgtacgt gaggcgttcg 1560
 tacaatcaga gacgaaaaca ttggcagcgc ttccgccgtt cagtcggtaa accaaccagg 1620
 catcaacagt tccgaaggcc aagggtgcctt tttcgtatgc ctctttgacc ttgggaacat 1680
 ttgtaagcat ccagaggagc ttagaggaag aggaataggt tgagagcggc agaccgcaga 1740
 tctgttgaag ttgcgatgct ccgggtttct ttttaagctc atcaacaaca gcttgcgagc 1800
 ggggtgcggt ccagacaatc gcattataaa gtgggtcccc ggtttcatgg tcccaaacaa 1860
 ctgtagtctc tcgctgattg gtaattccca ccgccttaat agattgttgg tcgtaccctg 1920

tgatttcgaa ttgtttaaca gcttcttcga tgcaggtttc cacagaagat acaagctcta 1980
 gcggatcgtg ctcggtccat ctgccaaactc cgtagcgct gtcataaagc atcaggaaca 2040
 acagtcctta ccccggtta ggatatactt gcttgaattc gacttgatgt gatgacgacag 2100
 gatctccctc gcgattaaag attagaaatc ggggtgctggg gggtccctga tcgatagaac 2160
 caacaaaaat ctttgctggg tccattatcc tccggcctcg aactcagagt ctgaatgtga 2220
 tgtttatcgc ggagaatatt ctgatttcac ctgccgactg gttgaggtaa acaggcagaa 2280
 gggggagaaa aagtgaggat gcgtaagagg tgaaattgca ctctctgga tgagataccg 2340
 gagggagtaa gtgcgtctcc agctttgttt aaatacttct ttgacaaagc atgagtacga 2400
 cgagtggttt cacaattttt cctctctgcc atccaatctc tgcgggggag atgccccga 2460
 gcacggaggg gtgaatgccg agagtataat ctacactata cccatgctag cgtcacgaaa 2520
 atggaaagcc actgctatag gaccgtcttc gtaaaaaggc gcgaaacag cgctcgacc 2580
 gataccgctt gagataaagg ccaacatgag cctaaaattg caaaccagtc gagatttcaa 2640
 tccatgttct cgaacttctg taggtatcct gaacttagcc atgtgtttgt ctcccatgta 2700
 gacaaagcca aatataaccc ttgtgaactc gtcagcccca acaggctggg tgcgttcgtg 2760
 gggaaagatg ctcggtggag taattgacga tctgagctgt cggaagactc cagtcgccga 2820
 tccggtagaa cctgtgacaa gggcgaccat acggaccaca agctgttctc agtccttgtt 2880
 atctggaagc caccatttgt cggctgtcta atgttactac tgaggagcgc ccggcagaca 2940
 tgggcgaag cgtacggcag catggattct ggtgggtcaa catcgaacaa atcgctgcca 3000
 agctccaacc ctgctcgta cccacctcca caactccaca tgacagcaac aagatggacg 3060
 aatggcgatt gaaacatatt gacccatgag atgcagctgc cagcgctacc attctcagtc 3120
 tccacccaaa cattccagaa catcatgaac gagaccacag aacggcgatt gatgtcacag 3180
 agccgactg ttcctgggc actactatat gactgatggc gtccggatag aggcgtgtca 3240
 attctcgtcc ctgcggaagg taacagcggc tgaaccctgg atggagtgtg cagaaatctc 3300
 gtacacaacc agttgcaatg ccaatgaaag agaccaggct tggggggact aattaccttg 3360
 aatggaaacg ctctcatcct ggcgatgctt atgtctgcaa gtcgcacaaa cacagtttgc 3420
 gcaccgagga ctggtgtgag atccgacgcc cgagatgcga atgtgacacg acgctcatca 3480
 ggctttctct gagagtttca acgcccctca tgtgttgaat gacagctggg ttgcattctg 3540

gtgtagtgat ggagtattgt caggcaaattg ttcacaaatc tatatcccag gacaagctag 3600
 atgatattca aacgaggatg tagatgacaa agtcttgctc tagaataaac aaagaatcgg 3660
 ggatacagag ttaaggtaat gatgtgtgga aagcgagttg aagaagtaga ggcgtcaagg 3720
 gtaaacagag cagaagaagt gaatgggtgc cggccagtgagg aggcctgccg gtctgtttgc 3780
 acaccccccc tctattctg gtcctaaaac atctctccta ttttcaccct tcttctctcc 3840
 ctctcgcttc ccagctctca atcttacgag tcttcctga tctctcattt gctccagtct 3900
 cctttcccag gcttggaact cttcactgcg ttccgtctct cctaatacag aaccatcgtg 3960
 ctccatatgg ccagagcatt tgactaggac ctctgcata tctacagcta gacagtgcct 4020
 ttcatgggat ggttccagta ccataattta gagaaggatg caccatgtat gctgatgatg 4080
 tttagatgta ggatatgttg cacaccttgc acgaagaccc cgaggcaca cccacggcgt 4140
 tcccttcccta tttgaacacc tcgccagca cttctgagca tatcccttct ggtaaagaca 4200
 gaagagactc atcatatcct atatactctt ctattttact aaatgggttac agttatgtcc 4260
 gctgttaacg gaatcgatat cccaagaaca tgcaggtttc tttgcaaacg agcaataagc 4320
 gagacgccgt cctcggagtg agtacggcgt ctgaaacaac cgaagcagag cctacagcaa 4380
 tcgatgctca tccatcacca 4400

<210> 1803
 <211> 4046
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1803

aaatataaat tggatttttt gttttaaggt tttttgggtg tacaataagg gtttttgatt 60
 taagggattt ccttaatcg acattgggtt caactgtctc ttctcacggg cagaggaatc 120
 tctctccgtg gaggttcacc cgccaatcgg gcgttttttag actctgcgtc cggccggtag 180
 gtctctgtag ggtccggatt ggttgaaaga cgcgaaaagg ttgccctccc cttttgtgaa 240
 accccaattt aggccattg gaaatgaggg tggtcaggac tgctgggttaa acgggtccaa 300
 tgaagcgtaa cttccaaaca ggttcggcca aaccttgga ggtgggcctt taccgggggt 360
 ggtccaaaag gttggttggt gcatccatcg ttctcatttc cggggcggtt gtcaggggat 420
 gccaaagatg gccacagctc ctacagttcg atcatgggtt ttattgcccc atctttggaa 480

ggctttatgt agggtcacca cccagaaatc gtgctttttc tcagattggg attgggggtt 540
 ggccgcatcg cgtggaagcc catgcaacgt ttacctctca taagcgtctg agcgcgtgag 600
 ctaaggcagc ctccgtagag agttgggtcag cacgtataat cgtcatgggc cgatcattgg 660
 atggcgctcg ctgaccccag cggcagaatt cgggtgatccg cagtacattt gctgggtgagt 720
 gctagtaaca gatcaacgag tcgacgtcat tatccagccc taccactcat tcgcagccag 780
 caatgtgcat agtacgtcgt tttaacgaagt atacaggggg cttgggctct tgactggctg 840
 acgggagaac gacggagatc aaccggctga caggagtcca gatacaagtt gtaaataaat 900
 cacagccaca gcgtgggtac agggattcga tcattcaagc attgcagagt gctccacgac 960
 caggagcatg accatgcagg ttatcgtttt gactggctga aatgcatttg cgggctgttg 1020
 tttggctatc acagcgcaaa tcaaagcttc tctgcacctc gcaggatttc agcagagaaa 1080
 gtccattcat ggagccgtag attgtgtcac ggttggctgt ccaatctacc tgacgggtccg 1140
 gtgggggtgct ctaagaagtt ccgcagagct tcgaatagcc ttcgatcctt cgaaagggcg 1200
 ggcaaaaatt gcatacaaca tgccaaataa tccctcctgt ccgtcaggat cgctgacctc 1260
 caccagcacc atctgcggga gcctggaggg agaatatgga gtggatgggg aacttgtttt 1320
 gcatagtttc gacctgaaa tggagaccgg aggaggccgg agggagggcc taaaagacct 1380
 aaaggggtaa aaaggcctga tccaagtctc caactctagt tagatagggc ccagatagaa 1440
 gaaaaacgag aggacggcgg cgtttcagga tcgcacctgg gcagtgggca catgggcaag 1500
 ccggcagctt gcccaaacag gatccagaca ggacatacta gtgggggaact aagaataaaa 1560
 tcctacgac acaaagctgc cagaccgctc ccgaggttcg acttcccac aggggtgggca 1620
 tatcattcaa tttttctctt tgccggcttc cggtagatgc taagaattat tacttaagaa 1680
 gtgccaaatc caattcgggg ctgagtcctc tttgagtaag gctttgttca tcttttgaca 1740
 tcgccgctgg tcgcattggg agcgaagatg gaccgcaaca agaccctccg ctgtccgcgg 1800
 ggaccgccac ggtaatgata tcatatcgcc attagaggcg gctaggtaga gaagaaaagg 1860
 aaaaggctga aactcggatt tggaggctcg ttactcgac tcttctgggg aaactaaagg 1920
 gtaagtggca ggggtccttg aaggggttag ctccttacag actcgttaca tcttaaaata 1980
 cggggtaaac agtacagagc gcagagtcac cagcagcaat tggatttcta aagtcgcagc 2040
 ccctaaaact cagtgactat ggatgcccc aaaaacattc agacattcag acattcagtc 2100

atgatctggc attgccagta ataatagata tcgcgacttt ttcggtgctg agtgggtttt 2160
tgctggctgc tgctcttcag agggcccact gtagggcggc gtggggccgcc gaaaggcgag 2220
tgaactagat gagaggccga actgccagct attcggccct agtctctttt gagcacaagt 2280
ccctgtctaa taataaacct gactgttttg tagggtaatg ctgatattat tatccgagtc 2340
cgactcgctg caagcccaac gcccatcctc caccgctgac ctcaccaccg tttatggatc 2400
cgagatggag aatgaccgag tcgtagtagt gggattgtgg gaaaaaagca gaggtttgat 2460
catcccggtc cctgggtaga ggctgatgcg gatgcgctgc catggggtga ctgctgctgg 2520
ttcgaggtgg ctgctgtcat tcgtccagat cagaataata taatataatc cagtgcgagt 2580
aaatagctga tgaaatacta gagttataat aaggcagaat atatgggtccg tttctgatgc 2640
atctgtcgag tgccagtcag ttgcgaatcc tcgagtcacg gtctcccac ctaggagcccc 2700
cgccacactc cgcccagtcg tgctgctgct gctctctgac cacgcttagt gcgaaaaagg 2760
gatcttaagc cattactatt atattctctc tcgtctctct cttttctttt ccgttttctt 2820
aatttatcca tcagtcttct gaggtacctc actcgctttg gtcaccttaa atccttccac 2880
tccgccaact ctaccttctt acctcgctc atctgcctcc cctcccaca aactacctg 2940
ttatggcatt ataaggatac actcaagatc ctctgctggt tttattcact cgcttacatt 3000
cgctcgctat tacactcgct tggtttggca ccgaagtaat cctacgttcg ctacgttggg 3060
gttgtgttgt tgatctaaga cgcttagaga gacaacctg aaccaagatt ctgggatcga 3120
attctcattt tgttgtaacc cagaaaaact actgaaagaa ggagattacg ctgaaaactc 3180
taatatctaa ttacgcatat caacgctctc gctcatcggt gattcgttcg ctattgcttt 3240
tgctcgcggc ttgccctga ctctccacgc tccccgact tatccaagac gaccaagaca 3300
aaacatctcg agagcccgt tctcgatca gcaccgagtg tggatatctc tgtttggtgt 3360
gggtccactga cagctgcgcg tttgttgta tttcaagtct ccggctgtag agcaacaccg 3420
tttgttccgt ggacggcgca actgaaacaa tcgccagagc gcgcttcttg cgaccttcag 3480
catcttgctg tcatcagggt tgagcatctc attatcccaa cctgctctcc aaagggtggat 3540
ctcagcttgg tccgtcttcc aatatcgcac ctgttgctgc cagcccttgg aaaggttcga 3600
gctggacca actggcgtgg agccttgtct tcgttgagga cacctccttt tgacagaaag 3660
agcaaagatc tttgactgcc tttttggttg ccaagtagt agcagagacc tttcctcgcc 3720

actgaggctg agtgccttga tccgccctct tcgaactctt cattaccccc tgctggcaga 3780
 cgggcttgaa gaaggcccg cagattgcaa acgtggcctg ggaattaatt ccctggacgc 3840
 aattagggga ggtgtggcgt ttccttaacc gttgccgcct tctgtcgagt tcataaactt 3900
 gaaccggcg atgtttaaac cttggagctt ggagcaacca tatgcggtg gggccccac 3960
 gtgattttcc cttaataact taagccggca gggaattttt tttaggaaga gaatctcatt 4020
 tttcctgtct aatatttttt agacct 4046

<210> 1804
 <211> 4664
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1804

acagtgggtg ttgcaagtgt cctaccgcta ccggtgactg cacattacca ggcattagta 60
 tatgccatcg ccgacaaggc ggctgatctc atacttagct aattgatcgt ctgcactctg 120
 cttgacatga tttgttgtat agcttgtaca caaggccaac gtttcgtaca cctcgttgat 180
 cgtagagcat catttagaga gtagttcgat ccataacccg gccaacggcc cattgtccga 240
 tctagagagt ggcacagtta ataaatcata ccattcaact cgggctgggc ccggaactca 300
 gctttgatcc gctccagagt tataaaggta agccagtagg aatcaaacga gcccttgtgg 360
 tgccggccagg accggagggc ggcaatcgca cgacttcgga ttcgatcgtc tcggcaaccc 420
 atggccacat agtacagata tggcaggatg ccggtgtcca atatgacagt cggcagtcg 480
 ggggtgtctgt tcataaagtc tcaacggcgg aaaggtgggc ttcatactcc ggaatgtagt 540
 agtctagagt aggatcctcc cttttcagga ccgtccta at cggaagactc agactttgat 600
 acactaagcg tagtagatct gccccgtgtc gttccttttg actgagccgg ctgccccagc 660
 agaaccgctc cagccggtta ccaaaaacag ccacacgcga aaggagccac agttgtctga 720
 tgcattggagc cataatccag gaaaatctcc tcttctgata gctcttcaca ctgccccagg 780
 aagcgaaatg ttgccccag gagaagggtca agcgcttggc gtgcctcctg aagactggga 840
 tatectccgt gaacagccat gcggtccgtc agctgctcag cctcatagcc tatgggtcaac 900
 gttccatgga ctctaaattg caaagactgg acttccagac tgagaaatgc tgcaaccaca 960
 caaggatgga caaacgctc gcatccctcg atctttcgcc tcgtgcagaa ttcttagccc 1020

gctctctaga tgttgggaagg catcatcata ttgaacgcgc agcagctgct tgagaacaaa 1080
 tagcaaacag cacaggagca taacttcacg gaactgtggg tcttgcggtg aacagcgccg 1140
 actgagcagc gtaaatagacc gtccacactg ctcgagcgca aatctatgcc aataattttg 1200
 cagattctgt ccaggtaatg gtagaccgtg aatatcggag tccttatgga tggcgctcag 1260
 agcgactaca gcatgggtata ccgcagcctc cgagtggctc atctggggca ccaggacctg 1320
 cgagggcgat gagtogaaga acagggagag tgtagggacc atatgggtcc ggaaatgtgc 1380
 gaagcaccgc tgcctcatcg tcgttacagc cagggaagcc cgcttgggac cgccgggtga 1440
 aatgtctgac ggacatcaac tgggacaagg gatcgatgtc gacaaagagc gattgcccta 1500
 cataccatga atctgactgc attttcacga agcagtgagt ggtagatgca aggtagactg 1560
 cttgaccagg taatgagtcg aatttgtgga cggcgacgag gttaagacgc agcagtaact 1620
 aaacgccgga aataagcatc atggcgaaga caagtctgga atcgaaaaca tgtcgggaca 1680
 gaagccgagc gtgggttctgg caccttaaac tttccggcgc tagggccaga agcacaatgc 1740
 tcgtacctag cgcctaattg gaaatacgac tctggagttg gcaaggatcat tgcaattgga 1800
 tgacgggtgt cccaggagag ctacgtccta ttgaacttct cgctcacagg acgaccatat 1860
 cttcatcctc ttogaaaaga ggggtattagt tgtctccgaa atcctatcgc ctttggaaaa 1920
 cattaaaagc ttaactgaca acataaggaa ctgcagtacc atcaacgcgc ggtctagtgg 1980
 gcgatttacc agacaacatt gagattgcac gcctatttct tgagaacggt gtgcacctga 2040
 gcccgatgct gatgtggacc agcttacctg agggcgcccc ttcctgggta tgctgaaatg 2100
 gcgctcatac tcgagggtgag ggagatacat gaagatgcta gtgagacagt acacttgcac 2160
 acgagattca gatcctggga atcagaggta tagtaatata ttcctaagga gcagtctctg 2220
 aatcaggag tgcctacgta acttttttga ccacagtaga atccttctctg tccttacaga 2280
 agatattggt gcacggaagg aaaccgaaag atctgatacc tgagaaacct agctgggaag 2340
 cagcagttgt tgaagactgc tacaaccgcg gatctgactc aggaccaaaa cgagaataaa 2400
 acagaacaaa gcaaaaagag tgactgacta gattccaaag acaaatgcc aataggacg 2460
 cgagagtctt actttgccga gtcctttccc ttcctctat cttccttgcc tcccttacca 2520
 aacttatcga acgcctgacg aagcacattc ccactctccc ttcgacccga caacttcgaa 2580
 gtctccctct ccagcacacc acgactctcc cgtcgtggag ctggcgtaga cgccgcactc 2640

gaagtgtctg aggtcgtact gcccgttgtc tgggccgccg cgccaccggg ttcaaagtaa 2700
 tggctcggga cacgtagggg atccggtgaa cgtcgaacta cgcccatggg ggggtggcgga 2760
 cgttcgtaca tcagcctact ggtagccgag aggggaacgg gaggggaacg ggagcggttg 2820
 gccctatccc ccagcgcctg gcctgagtag gtgtagttag accatggccg gctattacct 2880
 gtattggtga ctgtggggct cggggcctgt tggcttgccg ggctctgggt tgagccctgg 2940
 cggttagaat attgcctatt gttgtttcct gacatcttta tggtagaggg cgaggttgag 3000
 aaacttgggt cagattggat agcagtgaat ttctgtttga tggtgaaag cgagattggt 3060
 aaggtgattc tgtgaatata ggtgccttgg aagggttagc ctggagagaa aaagtatgat 3120
 gagcacaagt atatatcctt gcaatcggga ggatttatag tgtgaacaca ctttgtcttt 3180
 agtatagaaa gcaattatac ataaaggaat gtcagaaagt tctgctccgt gacgagggca 3240
 tagaccttgc tttattatat ccaatgaaca ccataaatag actgctgggt gccaaaggat 3300
 aactagtaa agccatggca gaaagagaag tcaaagacag gctcaaggcc ggttgtttga 3360
 gtctaccgta aagcagttag ccttgtgtct attctcgtca actgactgtg tcttggaagg 3420
 gaatatctgg gtataggcgg aaaacctata tcgactgcct agatgcgatt atcgattgct 3480
 gccgcttatg gctaataata atctgtactt gcgtatatcc agagcatttc ggtctggcca 3540
 cgcacaaatg gtattcataa cgagagctta catatattcc cactgagaaa gaccggcttg 3600
 tcacttgcac catctgcta atgcacatac aatttcaccg gatcccatat cgacaaagag 3660
 aagtcgaggt caaaggtcga ctccctttct ggcggaactc tggctgcaa ggtctccgcg 3720
 cttggtcttt gtagccgcat gcttgtgtat tcgccttcat gatggccttg gctgcaacat 3780
 ctgcggcaga aatattcacc atgaatgatt cggctttgct aaggaagccg tttctcggtc 3840
 ccggtattcc tgtcaattat atgcacagca atcctgcaa atcgcacgta ttgttctgtc 3900
 ggttattggc tgtctgtgac atctttctca ttatggaatc tgtctgatag atgattttga 3960
 ttcttgtctc gtcaatacac tccctgagtg ccgtcctgag aacacgtaat aggtcgaaga 4020
 ctgcgtagct ggcagagcga acacatgaga tgttcctttg tgcggttcct caggaagtat 4080
 aacgagcact gttaggagct gtcttgcatt gaggtaccc tagatattga gttggttcac 4140
 cgctggacga aactttttga gggctcgggt gttcttcagg gcactctgaa cgagacataa 4200
 gagtacagcc tggactgtgg ctggaaatcg agacttcacc agctggcgat aatgcgcagt 4260

ccaaacaaaa gcgcagagtgc caaaagtaca aggatgattt accttgccgc ctggatgggtg 4320
 gaggggtacta ttagcagccc caggaggata aggatgagga accaacatgc aaggtcagga 4380
 gtcaagttta gaaaaacaag aaggggcggt taatagagtgc cgtaaagtaa agagcaacta 4440
 gaatgcagta tatagtgtag atttcgcggt gggggcagag gtcaaggata tgattgtgaa 4500
 cataccataa tccatttgca atgtctataa gctctgataa accgcttcct aaatgtctga 4560
 ttcctatgct atgtctgaac cttgaaggtc gcaagtaaac aacataatca gcatctgact 4620
 gtaatgggaa aatgcagtct aggtgctga cagtttggtt agaa 4664

<210> 1805
 <211> 2667
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1805

tccagegccc gctacacac ctcacgacaa ctccgcactt cctccccgcg ccattcccat 60
 aacccgagat atcctaacgc atcccgtttc ggaacgtgac agagttgaga cgcgccgtcg 120
 tcgctacgag cgcaagatg ctatatcccg cagagccggc ggtttatggc gcggccgcg 180
 ccctttcagc aacaaaggct gtttcggccg ccggggtcga gaaggtcgcc ttcggcgag 240
 gtggtaagcc gctatctgtc tttttttcct cgccattgtc gtcgggtgca tctcctcgc 300
 tacgttcttg acacgcaaag gagacggcac gcccgtgcaa tcggcatggc taaatttaac 360
 gggtaccgcg cccatgccga caggcatatc aacaatcgcg ggccccgaaa acacggttca 420
 ggactcgggg tgtatcacgc cgaattcgat gtggagttgt gcgctgccga aggagcagca 480
 ggacgcta at gaaccttatg caaccaatca gccgaatttc cgtgttgaga tccggtttca 540
 gaatgggacg tacgatcata gtacgacatt ggcacacgg tcgatccatc gcagaagcgc 600
 gtaccagctg tttaacccta acccgatcc accaagtgtga gaagaacaag cgttcctggg 660
 ccagtatacg gataagacgt ctagcccgtg tgcaggcgaa gagacgccct tctacatcac 720
 tgttttttcg gcggaatatc tatcctcttc gtcattcttc caatatagca aacgcgacaa 780
 cgacacatca acaacgaaca acacatccac ctcccagac gtaacctcgc taatcccttc 840
 tccatcaaaa gccagcgacg gtaccgctgc ccccgcaacc ctctaccgc ttcctcttc 900
 gcaaccagtc cgtctctata acccgggcaa gaaagacgag cactacggct tctacacata 960

ctttgacaga tccatctttc tgtcctctc agccgctctc acaggaataa aagagaataa 1020
 caataacgac acagatggcg gatccaccaa ggaagatgct tccgtgcgct gtacatgggc 1080
 acaaacgcgt tttctcgttc agatctggac aaagggtgac gaattagggc gaagtgtgtt 1140
 tgcacgctct gtcaacagca ccaccagtac aagcgccaac tcaacgtctt catctccatc 1200
 aaccgcggtc tcctccgga cagacttcac ccgccccggc tccttcccct acccaataag 1260
 cataacactc gatcgacacg gcgggaatgt cgaaaagaag aatctctact gctacgggtc 1320
 ggaagaaaat gcacggtata acgcctcggc agtcaaaactg caactggagg accgtgcgtg 1380
 gaacgggaaa attgtgaatc gagcgcttg gatctttaat ttagggtcgg cgaattcaac 1440
 taatgacgag gcatatcaga ataaggatta tgggtggttat gatggtggga tgggtgggtg 1500
 taagtgtcag tgggttaatt ggggtggggc tgtttaatag gggtcagctc ttatccgcta 1560
 gaaatggatt gagaagatta tatatgtatc cgacgggtatc ttgatcatct ctttccataa 1620
 attcggcgga gcgcatgcga gttcaagtga attcgggatc tctgaccgac cagccttatg 1680
 acgattaata tggtagtggt agactaccgg agtacacagt actgttattt taatacaaaa 1740
 attaatacta atttaggttt atacattcat gatgcgttca atgggtcccgt ttttccagtt 1800
 tcggcatgta ccaaacgtag ccccggttc aacgctaagg atagatgaca gaggctgcct 1860
 acagtagata gacaaaatgt accaggaatg ctgagggtct tcatcaagcg atagtcaaaa 1920
 agagagcatt tgtattcttt taggtttgga attatagatc cagcgggtca taagcagcaa 1980
 agtcagagcc agtttcagat tatattatgt ggtgaaagac taaatgacca aacgataagc 2040
 aaagcaccat tctgactcga ccatacaga acagaaagta agcaagtaga gaagcacagt 2100
 ttaagttttg caaacgcag gcaatcccct gataccttaa aacccaaatt aagccaaata 2160
 gaacaacca aacgcaacac cagccagact agcaaggctg gggataatca gcttagaacc 2220
 tgggttaaca ggggtttctg tgggttcggg tccagagtga acaccatctt cgcctccgtt 2280
 gtcccatgt gggcttgctg aggtgggttt gtgctgagcg gaagtcttg tcttgtgcgc 2340
 agaagagctt ggggttggtg atgggtagt ctttgacggc gccgggggta gagtggggcg 2400
 gattagaggc gtgcttgatg cggagggggc gctggctgag atgatggggg cacttgccgc 2460
 ggggctggac acacgagcac tggattcagg gagatggacg cttgacggga taggtgcgtt 2520
 gctactggaa ggagcggaag cgctgtggtg ctcggcaatg acgctgggct gagagctggg 2580

ctgagcagtc gggtgacgac ttggctgggc tagtagtagg ttgaatacta ggctgagttg 2640
taggttgacg acttgactgg gtagtcg 2667

<210> 1806
<211> 1205
<212> DNA
<213> *Aspergillus nidulans*

<400> 1806

tcatggcttg tcgggcctga aactcgcgtt gatgggccgc tcgggcgctc gtacgtctcg 60
ccctaggata aaagaatatg tgttgcagta aaaatgcccc tcgtcgaatt cgagtttggc 120
gaatgcttgg atccgcggct cggatcctgc tactgatccg ctcccgttat gcgtgccacc 180
ctcagtgtaa ccagagccg acaagttcgc gttctgagaa taataagcag agttcaccat 240
atcattctgt tgtaaaccct ccattggcgt ccctggggcc gtaaagtcga ttggagggaa 300
aaggtcgcta tgatctaggt tcggttttgc gaacagtaag ggatccgtta aattgtcaat 360
ggggtcagtt ctggctagaa cgttatcgtt ttgctcgggt gtcgaaaatg gcagccctga 420
ttgttgaaat gccatgtctt ctgtttgatg ttgaggttcc gccggctgac tttgatctcc 480
gttcttcggc tccgctccgg acggcggaac atctaccct tgttttgttt cccaattccc 540
gttggattca tctccaaatt gctgcttctg ctcagtatcc tgcttatctg agacctccaa 600
gccttcata gcctgatctg agtctgtatt gggagcctgc tggccgcaa gcaactgggc 660
caacaaagca ctggcgggcg actgacggcg gagatccgac tggaactcct ggccggttga 720
aaggcatgc gaagcctgat ctcagcctt ggacttgact gctaccatgt cggacagggt 780
ggacaagcca ttggaagacg atgagtggtc gggggcagaa tcgttgccgg ttgtcgattg 840
cggggacgga aggtgatggt cgttctctgg cgagtgtgc gaccgggtgt aatcgtacaa 900
ggacgacaca cccggaccag cctctgaagg atgatggccc accgctggcg ctgtcatggt 960
ctgcgacgat gacatgaccg ggagtagggc ggctgggatc tggttggcct gtaaaagaag 1020
ttctcgagcg gacggctaaa gagaggagaa cgcaagggcg gtgaaggggg aaatcaaagt 1080
catgggcggg catagctcgc caatgaaggt tcgtgttggg atttggcagt tctcaatctc 1140
tcatcaatca gactgagtac gagacagaca taagatctac acaaagatga ctcatcacag 1200
tatac 1205

<210> 1807
 <211> 2208
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1807

```

tagtaacggc ggccgccagt gtgctcagat aagagcatct atgtcgtgga cgataagaac 60
gccccgttga cggtcgcgac cgccttatgt gagtcaatct tgtttcggag ctttattgat 120
ggagtgcata cgctgggtga ttgctaggta ttataccttg tactttctcg agtcctatgc 180
cgacgctcga cgcgagcaga ctaatgtcct tttgcgcgat tttgaggctg gccggctccc 240
tgtgcgaata ccgccggata ttgcgaagag aatgtatcag gaattgcaaa ggaaaatcat 300
gcaatctccg ccttttacgg atacaactac gtcataatca accatcact gtttgcgcct 360
gttggtctct tggctacgtg ataccgtccc accagacgag caagacgtct cagacgacag 420
ctggataggc tcgctgctga cagtgtcacc cttccaacgg ctggtggaat atttctcagc 480
agaaattggg gacggcggga accagcggat gcagcggag gatttcatgt acaattttca 540
cagggacatc tcaactgactg aaaacgatga gatgaactcc cgggtttttg agagcgcgcc 600
gaatgtgcat ctccatcgct cgggtccagga tgtatgggtc gatgctgcca ctgctgagat 660
cgccaagaga agggctggca accataggaa agagaaagt atgctctatg acggcgtgcc 720
ttttttattc ggctgccctt actgcaagcc cgggtgctgt gatggatggt atactccgtt 780
aaggctacat tgactaacgc tatattattt gcttggttgc ggcgttttgg tttagaccgg 840
tacatgagca ggttggttat gcattatgcc agcgattctg ttagagttcc ctttcataca 900
ctacttacat gcacctgtc agactggtag tcgagcatat ataccttgca gtgggttctt 960
agcacgtggt tgtttgtatt gtttgcacgc gcgcgtctcg gcacgaaca tctagggttaa 1020
ccatacaatt aagtattgtc ctaatccggg aattgactgg gtgttgagag taggtgtaga 1080
gtggctgtac agttccgaca tgtgatttta aattgaaagt cctttttttc tatccaggac 1140
gaaaagggct cactaccacc actacataca taataatcaa ctcgaccaat atggcaagcc 1200
cataccacct cctcaacaca tcatggacat cccaccgtct ctccccactc cactacgaaa 1260
tcaacaaaaa tgcggagtca tattccctcc tcacaaacag aaccgcccta gacacttacg 1320
ccgcgcgcct gagagactac ctgactaact ccctggctgt ggccggcgcg ccaactttgc 1380

```

aacatgaccc agcaacatcc gcaaccctcg gcgcactcca atcatgtaca tgggaagcta 1440
 tatcatccct ttccttcctg gacgcgagca tgatttccga gcatggggga catagtgc 1500
 ttgagcagaa cgaggaagaa ccggcaggcc tcctaataac cctcacctac gaaaacgcca 1560
 catacaaagc cgcccttctt agctctggtg ctgtctctag gaaccagagc caagaccaag 1620
 aacaattgca gaagcagaga aagcgcaaac gaggccgtcc atccctgaag tcatcaataa 1680
 cgacagtatc cgcacatcaaca cacctcccc ttctcctttt acgcctcccg aaaccctca 1740
 gggagagctt attttcgttc cttagctcga acttcgacac gtatgtgtct gccttacgga 1800
 tctcaagcca cgggctttgt gaaattctgc aaagttatct tagtggattg accccagctg 1860
 ggccagtga cgcgggtgcg gatgtaggag agattatgcg cgaattacac ataacgatct 1920
 cctttgcccc gccgatagca ccctcgctga aggcgctgac tgtttgtatt ccgagggaga 1980
 cgtctggggc ttttatacga gtgccagggt ctacttctta cgcaggtaat gccgggactt 2040
 ccgtgctgtc tggactgtca gcgtacttat cgaaacatct tgctctggat ttgagattgc 2100
 cgttagtgga aggtgcagcc gctactactg ctgggtcttt gctgacaggg ggctatgtgc 2160
 ggctcacgac gaattgcgtg tgctggtttt gtggttacct ctgagggg 2208

<210> 1808
 <211> 2135
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1808

gatagaggtc atgtgatagt agagtatcat ttgcagattc taaatcagga cagggtgagg 60
 agagagcagt taaacgagat gataggataa gtgtgacggg gtcattggcat ataagtataa 120
 gatcaaggag gtgcagagga tgacgggaaa gagtcgagga agactccagc aagtatgaga 180
 gacacgttat agcgaagaga caaggagcgc aaggtaaaag ttggagcgag ataggaagaa 240
 atgatgagca gggataagtc aacgagttac gcaaagacaa taagacagaa acaagtagag 300
 tagaagccaa tgagggactg gtcagaacaa gaacaagcga gcaaggagat aagaggatca 360
 aagaaaggag cgagcgtgga tatgcgtgca ccggaaagga agacgagaat aggagggaga 420
 ggaaggggaag agagcaggac ataagaggga gtggagatgc agagaaagggt gaaggtagga 480
 gggatggatc aacactcacc atatattcag ctggtaccag tcaacacctc agccaaatcc 540

ttggagcgac tttgaaccg ttctgagtat catcgatttc caggtaagtc ctcaagagct 600
 caataaagtt gccctgttt ctaagtgtct ttctcgctta gtctgacgga gcattcgacc 660
 atccttttagt ccttttacag ctgtcgtgat tgtattcgcg gctctcgata cacccttcca 720
 cgttatttgc cattaattga ccaaattggac attgacccaa gccggaggaa caagaagcct 780
 cgccctttgt tggaatccga gcgtgagcga ctggacgagt tcatcgactc tatccattat 840
 tcagcaaggt gcgtacatta cctcaaatta cttcagctt ctaaaatgcg cagatactct 900
 gatgatcaat ttgaatatcg ccatgtccag ctgccgaaga acatgctgaa aaaaatacct 960
 gccgactact ttgacagttc caaagggacc ctcaaattat tatgggaaga agagtggcga 1020
 gctcttggtta tcacacaggt acgcattatt attccccggc aaagaattgt ctaaccctat 1080
 tatagagtct gggctgggaa cattacgaag ttcatgaacc agagccgcat attcttttgt 1140
 tcaagtatgt tcctacagtc ggcctagcca gtctacgtgc tcacagttta cacagacggc 1200
 ccttgaatta ccagccatca atcccacaat gaacggcgta ttccgagctg ccgactacgc 1260
 gtctcgacgc tttacacggg cgctgacagt ccagacaccg aggaagagcc atctcgacgt 1320
 gccgctatcc aatgcacatt agaatgctcc cggcaattca aaactccgtg caatgagttc 1380
 gataaatgga atatggtatg attcatataa gcaagatctc tcgtatgtcg gctaaagcgt 1440
 gagggctggt aaaaatcatt ttgtccttct ccattgcctt tactttgggc ctgaggattt 1500
 tcaatttacg ttccggccagc cttactccc accgagtagc ggtggaactg ctaatccctg 1560
 gttcttcaat gtcctataac ctcaaagtca gtgctttacg aggcactcgg gacttttagg 1620
 cttaggtatc gcacattgag atacgtgtt ggagagatat gaactccacg acttgacttg 1680
 cctgtgctc ggtgttagtt gcgactctca gaaaggacgc taagcacata ctttgaccat 1740
 taactttaaa tcattcagtg atcttatttt ccggtgttca acttttcacc ctttacggac 1800
 tcttgggaat tatcagcagt ctttgataga ttttacatat accaattatt ctcggtttcg 1860
 cgattgatcg gccgttttag tgcagttcgt gacacctttt tgccggactt tggcgtgtta 1920
 aaaaggttac tgactccaaa ttgccggtat tttgggattg aaaaaaaaa cgctaaattg 1980
 ggcatagatt gttttcccgg ggaaatcccc gcttttttta caaaagcggg tgtggaaacc 2040
 cctatctggg aagatttttt ctctctctaa tgcaggttgt atactctccc ccccatctt 2100
 tctctttttt tgggcgctcc acgagttttt ttttt 2135

<210> 1809
 <211> 3451
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1809

```

aaaaaaagaa aaggaatggt tccttccaag tacggccaat taacctcttc gcgtgagtgc 60
gcaaatcaaa aggccaagag tgggttcctt tggcctaacc ggggacattg ggggttcacc 120
accagtatta aagttgctag ttaattattg cccaaaacct gcggaaaaaa gcctcataac 180
tgaaggcctg atcgatccca tttcgccaaa ggctttcctt ccgccatcgg acagatttct 240
ggccgcgtca ggtcaagacc aatatccggc cctctttgct cggcgaatgg tcttgatccg 300
aaaaatgggt tgcggatcgt ctcaagaaat tctcagcagg aagttgcaga gcggtaatgg 360
ccgctttcct tttgagccat cgatcataag ataaactcgg agacaaattc ctcccttct 420
tgagatctgt ttgctcggag gaatacacc tgagcccatt ctccgtacaa gccgaagcag 480
acgttgactt ttgcgcaacg tttacctcca acttctcatt ttcactgaat tttgtctccg 540
acgtcccggt tgcggcgcc gcggaaactt cttgctctgc aacctccgat tcggtcttcg 600
caatatcccc tagtcaaca ggtgacggag gagccgattg cgactcgata ttcttcgcaa 660
agattgttcg acgtaacgag tatccgcggt ttcgggatcg agagcggcca acggtatctg 720
gactctgcgg ggacgtagga gagagcgctg agcgcggtga aagagtcgaa ttcggcgcac 780
ggttggcatc aggagaggta gcagacgaaa ggctttgggt attcgcgata ctcgatttta 840
tcgagagtcc tctagacgac ggtcgccggt cctgctccca tgaagcctgt gtatttcctt 900
ccgcaattgg acgtccaaa tcagctgaaa aacggacatg ttgttgcat aacctccttc 960
ctgaatctga aagtgttcga gagggagaaa gcgaggtccg tcctggggcg gctatacgca 1020
gtgaatgact tctcgaaggc tggggtgggc gccgaggaat ctgtgacgtc gtatcggagg 1080
gactcgacgg ctggtctaga gagattcgcg gttgttgggg actccgattc tgggtcgaat 1140
ctggcactct gttcggttgt gacatggcaa tgtcacttgc tccctgtacc gaaaagtga 1200
aaatatgacc ctctttccc tactatcctt caaattgaat cctttttcga ctccagcctg 1260
gtgtaataat caagtggctg gtcgtacaag acggtgatcg gcggggcggt atgacgttag 1320
gcaggcaacc gaactcatct ttcagagcga aagaggggat gctctgtgac gtgcaataga 1380

```

gaagagaagg tgtatgtaca gaaaatatac aagaccgtgc gaggggacga aaagcaaaga 1440
 gcgagaagaa actgggtctc cgcaggaagc acgtttgcgg tcggtcaggc acagaacaaa 1500
 aaagtccgga aacagcaacg ttgatcgacc tctgtccccg tggacgatat ggaagaaatc 1560
 tcagcagcaa cgatcgtata tacgacaata aaaagagaga aaatttacag gagaacagaa 1620
 gaggatgaaa agacgaggaa gaaggatagg ccaaagttga atagggattg ttgaaacacg 1680
 actgaggcag ggccgggctg ggggcaacgt aaccccagtc ggggctggat cttggaagtt 1740
 ggaagttgga tttggaccag atggcgcaac gccgccaatc ctctttggat ggcgaggttg 1800
 aggcctcctg cgtgcctagg tacatacatc aacggttctg acagggcaga acggacgcca 1860
 ttttgcttta gctatactta aagcacagcc ctacagcact agtatcacta tctactccgt 1920
 acgcagtagt agatccccag gaaaatacag actgcggata aaaatccgtc caagacagtt 1980
 ttgcggtatg agagacagac ttcgccccgag accgtcgcaa ctcgcaaggc tgctataatt 2040
 aagcagtatt cgagtggtec accggggccag acgtctgcac agcctccagg gtctcgcccc 2100
 catgctacca aatcattatt cgtccaccaa cctcgtctct tgctacgcgt cagctgttcg 2160
 ctgccacctc aattcgatgg tgactagagt ttccgatccg tcgaatcttg aaatccgtgg 2220
 aaggaagcta gaagtcctg agccccagt gagttcgcg tcgtaagtgg caagcggagc 2280
 acaaccgctt ggcgtcggag aaacttcgc tcaggttaagg attgccaccg gtgtttttcc 2340
 gtttatctct tcggtcttgg acgacgaaga ttgccgtcca tatacttggt tgttggttgg 2400
 tgtagacggg acatattgga tgaacaaagt gaggatatat tccatgagac ggctttcgtt 2460
 tcatctcttg aatttccaag accgggagac gattgcgatg ctgtcaacat ggtcaccgac 2520
 gtgcgccttc taacgtatca gcgatatcga acgttcgttt cgtttacgag gtcacgggc 2580
 tggtcagaac caccatgagt ggattggctg cctctagcc gcgtccttg cttccttcat 2640
 tttctagtct ggccctgact ctttccatct gtcttcttg ctgggtact gtttcgactt 2700
 tgtccgagag ctcaggtaat acttctcgac cgttggtcaa aacacatcac atgcatccag 2760
 cacacatatt cgatatatgc tccaattatc gaatgtggag ggctcgaatc gacgataggg 2820
 cggagaaggc gactgtgaac tattggccga gcttgaacca ctatagtatt tattagcctt 2880
 gcacttatcc ggcgatgatg tatacggaca tacttccttc ctttttact ctgtacgcgt 2940
 taaaatcaag ctcgatcgta gtcacgggtc cctattgcca tgtgtgttcg tctcactct 3000

ccgacagctc cggcacaaag tcttctgata gatcctcttt cttcgtaaaa cgacaatatc 3060
 ttactcagg ttgattcgga gaatgtacgt aatgagttct ggaggatatt ggtatgtgaa 3120
 gttagtactg aactcgatgt agtagaccag caaccactgt gtatacctgg ttgaccgca 3180
 tcacgatcaa gagtaggaac aacacgaaaa atgatatcta aagttgtgaa tggaagagaa 3240
 ggaggcagat ttaaagtgag aaagacaacg catgatagag aaagggttagg aggcagggtg 3300
 aagtgtggaa tctcgtgagg cgagaatggg ataacgctgc ccttcgccta ttcgagctgc 3360
 tgacacttcc taaagtcagc tagacatggc actaattggg aatgaaagggt ataagcattc 3420
 aatggatcag caccgtactt tgatgagtta t 3451

<210> 1810
 <211> 4514
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1810

agagaaacga tgcacaaata aagaagaaga tgtgaaggat ttgatttttt aggtgccaac 60
 tggggaataa aaatgttttt tgtgcgtcta aggccacagg aaaaaaatca tctcaaattg 120
 ttttaaggaaa ataaagtttt ccaaattaaa gagcttgctg taacgttcgt tcaaagagg 180
 tcacaatttt ggaatctccc gttggggccac ccaaattct gacaaataag tttccggcag 240
 agacttatcg gaccttcaag tgggagcatt ggtgtccgat agtaacgctc tccagattct 300
 ctgtaaagtc tcttcagctt tctcgttgat ccattctgct ccttacaaaa attctggtaa 360
 ggtctttgat tccccatgat gaagccattc attgagcatt gtcattgtag gctgctcga 420
 ttcacgaaga agagtttcta caagcgcttt tgcgtcggga tcgccggaga aagttgccag 480
 tcgctcgggc agtaagcgta gtacattgcc tcctttacat atttttttgc tagacattgc 540
 tccaggaata agatctcctc cttctctaag ctgttcgaga atgttatcaa cgtcgtcaaa 600
 gtcgtcaatc gactcatcaa taccctgac caagagaccg tttcgtctca gcagctcctg 660
 acctaaagag tacaattgag ctaaacattg gctgggtgggc atggatatgaa gatggagtac 720
 atggagggtg aaattcgggt tgttgagaag ttgtgtctcg agctgggcaa cgaggatcaa 780
 atagtccttt aataattttc gaatcgtagc gcatagggcg tggctcactg caccgtactc 840
 tgcacgactc tgaacctcaa cgaacgcctc cagcgccactg taatgtgttg ccatcttcaa 900

catggaccgt gtaaggtccc tcagagtagg atccagccca gacggcagtt ggaaagccgg 960
tcccgtaaat ctgtccttct ctgcagtagg gtcataattga gcctgggtatt gaattgtattg 1020
gccttcgaac cccatgaaaa caaacaatag gtcctccaga atcgcccttct cctgcgcatac 1080
agtagacaaa tcgcgtagtg gtttaggttg aagcgattga ggtagagttg aggacaacgg 1140
aggtacggat acacgactag ccagcggcgc agtagttag ggcatcaggg aggcgtgcgg 1200
gttccatggg gctggtaaga gtcaaaattg tagatattca gtctggacga atgtcttacc 1260
atctggggtc tcttttctt tcttccgcaa attgggactg agaggcccg cagtattagc 1320
cctccttgac cgcgacttat ctccctcccc tcggttccct gcgctgggag actctctcac 1380
tggatttctc gttcggcctt gcactctttc tttagtctga ataacgacgc gttcgggtgcg 1440
tttttcagat gtgacatgct ccctaggaac tttgctcttc tgggttgacg tgctcccgcg 1500
atgatccata ttttctgctt gcaatggagc tgtgccgccc cgtagaccgg ctctctcagc 1560
atcggcgacg cgactggacg caacgcgggg tcgtggcggg ttcattgtggc tgggtgcggcg 1620
gtcattgatg gacatgggccc gcatacaata gaagaaattg acgacgttcg gcgctgggga 1680
caagaaattg tgctggctct agccttgccg agtcccagc tttggttgga gcggtgggtg 1740
gtgttgctgc cttgatgctt gagatctccg tcaggcactt gcgacttgcg tagccatcat 1800
cgtctcagag cttcatccag agcttcagct tcatgaaact tctaccctt acgtcctcca 1860
ccctgactgc taattcgaga tactcctttg gagtcagcta ttatcctagt caatccggat 1920
ttcattgttc aaagatataa tctaaaatgt tcatcgcgcg atcggaatac ggtaagctcc 1980
atcagacctc ctcttaatac ctgcaatctg acctttcttc ttagaccgtg gaatcaagta 2040
ggataccttc cctctataac ctccgatacg ttattgcaac cagtctaact gtgataacca 2100
cagcaccttc tctccggaag gtcttttgtt ccaagttgaa tactcgctcg aagctatcaa 2160
gcttggttca accgctatcg gtgtatgtta ttcattttta tactcatctt ccggcatgga 2220
cactgaagtg tcgtaaacgg cggagcactt tataagcttc ttcgacaatg accgcaacga 2280
atccgctgac tgcttcaca ggtagcaaca tccgaaggtg tcatcttagg tgcgagaag 2340
cgcgtaacat ccacctgct cgaggcgctc tcagttgaga agattgtgga aattgaccag 2400
cacatcggat gtgctatgtc tggttgagc cagatgcccgt gcttttagtt gagcatgccc 2460
gcgttgaaac ccagaatcat gcctccact acgcggaacc tctgcgtgtc gagagctgta 2520

cccaggcgat ctgtgacttg gccctacgat tcggagagac tggagatgat gaggagagtg 2580
 tcatgagcag acctttcggc gtcgctcttc taattgctgg gattgacgag gatggctctc 2640
 agctgtacgt ctctctccct tctatccgag ccctgcttgc ctgtctttcg cctcgtttag 2700
 cactacatac ctcttatact acgaaaatta tccactgact cttgtctcta ccagatatca 2760
 cgctgaacct tccggtaagt tctaccgtta tgatgcgaag gccatcgggt ccggaagtga 2820
 gggggcacag gcagaactgc aaaatgaata ccatcgctcg ttgacacttg ccgaggctga 2880
 gacgctagtt ctgaaaacac ttaagcaagt catggaggag aagctagacg cgaagaacgt 2940
 tcagctggcg agcgtcacca aggagaaggg tttccgtatc tacaacgacg aggagatggg 3000
 acgcgctgtc gcgcagctag gtgggaatca atgaaggact actcagtcgg tttgtgatga 3060
 ggccgtaatg aaattttgtg gatacattac agggttacct tgactcacat agaaaagaac 3120
 gatgacctcg gctcatgacc atgaagcatt gcttctcctt tatgaaatgt agctcgctat 3180
 aatcccgagg atttgaaacg gtggagcaga tacgacttct atatacacta atgctgggtat 3240
 catagaggat tactcaaaca tagttttcgt caaagtgaac attcatcacc gaatcttata 3300
 gacgcagggc ttcagtacag ccgcttctc ctccggagtc atcccattat ccgcagccac 3360
 cgtcttctca ataaacttct tcttgccaga gccaggagcc ccagaagcag acacatgttt 3420
 acccttcgtc ggtgcaccgc ccgcctttac aaactccatc ttacgaaca tcttgttcga 3480
 tttatccaga gtctcagatt tcagaacaaa cccgcgtgtc ctgaagacct cgacaaaagc 3540
 agagatatca gtctcatcat cctgtgcggg acgggcatct tcagcataga tctccgcac 3600
 gtcgacatcc gagccggcat cgtcatcacc cgcgcgcttc ttcttgagtt tcttcttttc 3660
 ggctttcgtg agtgtccgtt tcgcgccgat ttgggctttc ttgcggtgca ctttgccaaa 3720
 gcgacttttt acttcgctga ccagcattc acccttaccg tcgctgcgga gaacgcgcca 3780
 cgcttcttcg acaaaggaaa ccagtttgt gccatcagg ctgaggcaga agatcgcaat 3840
 gtcagccgag ccatcttcca aaggtaggtc agaaatgtcg gctttagtaa tgggtgaatc 3900
 tttgggagcg tgtaggtcga agctgtggag cttcaagttc agcttcttgg cggaaggag 3960
 cagagcgcgg tggagttgtg cgtcaccgca gccaaagtcg acaatggtgc atgtaccgtt 4020
 tggccggcgc ggtaaggcca gacctcgga tttttggtcc ggcttgcttc ctttctttgg 4080
 ggcaggggag atggctctc gagtacggat ggcattgat tagccgtcaa cgggattgga 4140

aggccatgat tccttgactt gacgggagaa accggcgtgg tattcctcga atagttcagg 4200
 gtttgaagtg aacagctcga gagcctgcgt tgacggagta gtgtataggg ttctgttcaa 4260
 atgacggaaa cgggatgaga ttaacttctg ccgcatggcc tgctgcagag gtgtcaagac 4320
 agctgttgta gttgggggtg caaggggtat cgattcagca gtaggggctt cattgggagt 4380
 cgcttggttt tcttctcccg cctgttggtg ggagccctta ttcttggtct ttctcctcct 4440
 cttggcactc tttttctcct ctgcactacc atccgctcca gctaccactg tttcagtcgc 4500
 ctttgcagcc tgcc 4514

<210> 1811
 <211> 3384
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1811

tgaaaagggg aatcacttag aggttgtagc agagcattac ttcccaccag cgagaattaa 60
 ggggtggtaa ggtggttagg atgtttgaag tcagggctca aaatgagagt tgctcggggg 120
 ttagaggctc atcagtgaga ttttaagtggg gggagttaga cgcattcagc ggcttgtaaa 180
 taaagattgg atcattaatg tcttagatgc tgcgttagta aacagtgtct tagaaccctt 240
 gtaatctatc aacacttcaa cgctgcttt gctgcgtaac aaataaagtg cattgcacgc 300
 cacatacgtc tcgtacgtcg accatacatt tagcagtaag cacctactaa ctatatcagc 360
 tatagaacaa agctgcaggc tgccgagtga taataggatg ctctgagtga atagggtctt 420
 gaggttcggc catgggttta attgggggtt cgggggacaa atgaacttga atagaattgt 480
 ggtaaagtgt cttggatgtg aagagtgcg tagacagtgg acttactaga catggttgca 540
 actcctattc gagacagcca gtgtataggc aaaaaacctc tgtgtacgta gtactcgcag 600
 cagcaatgat tcacatcaaa attcttatag ggtatctgct gtcacttata cattaattat 660
 aagacaagcg ctctccccga gcaggggccc aattctccag ccactctcgc gctttaccaa 720
 ggtcactccc cgcgggttca accgcagcaa cgcaccaagc cagatcgtaa attttctcgc 780
 cagccgtccc atgattttcg gcggcaagca ttctggcaat attgcgccgt tgctgacctg 840
 cctgatcagt gcagaagtaa aacggtgcga tgtgtggccc cttgccctga agatctacgg 900
 cgtaaatcag aggtcgcacg agactcaaaa tagcggcagc gctgcacga tgcggccgag 960

tcagagagct ggtgacaatt ttgtttccca gttttgcagt actcgttctg gcaccatgat 1020
 ttaccgcacc ccttcattag ctgagagaga taacggcgct ctatgcgtcg atggagcact 1080
 ttccccctcg gatcgtaggt gtctacatat aaggggccga agcatatgct gcagagacct 1140
 atcggtgcgt tgccctggctt aattgtgctt tgcactccgc gcccatcgag tgtacgtccg 1200
 cagttttggt tcaggcagat ttgaggcgcg ggccgggaga ggccggtcgag atcggtggtg 1260
 cggaggtgtg tcttcatatc gcgcagccga acaatcttgt tgcaaagatg gcattcgttt 1320
 gttegtccgc catctacaag ttcattgcgggt gtaagaccgg agaccagcac ttccggatcg 1380
 tgcatactcg gatcagactc gccttgctgg ggcacctcca ggtgacagaa tgagcaaagt 1440
 atgggcttcg ctgggcagac agttgttcga tgttgagcaa ggtgctgaag tccttccgct 1500
 tcaaaccac aagcgcggca tgatgcctt gtatgaaaga tcaagtcatg tttatgctga 1560
 ctgccaggt catgcccga tgaagcgtca taaggacagt gccagtgatt ctgccattcg 1620
 ggagaccgtt tctggaaaac ttcgtggcaa tgggtgcata atacattgtt ccgaaagcaa 1680
 aaattctcgt gcaggacaaa cgttcttgaa gaaaccagc gctgacagtt cttgcatagg 1740
 acatcatcgg cgtcatgcgc atctgactcg gagcttccgt ggtcgacagt tgaagttgca 1800
 gataccaggc gcagttgata agatttagcg gaagcctgtt gttcatcagc tgtagcaaac 1860
 gcgtggactg aatatataca cgctcggca ttatccaatt cagcgttcgt tggcgcaatg 1920
 ctaatctgct tctgtgtctg gcttgagagc tcaccaaaga catgctcgtc catccgcggt 1980
 cgattcctct gacgagcaga aagaggactc gcgagcaacg taacatccgc atcgctctcc 2040
 cctacaaggt taatttctat ggtgcttcca gcctccatt ttcgaagtcc atagtccaca 2100
 tactgacctg gaagcacctg gccagtcact tcggcaccca gctcaagtac tccgccagca 2160
 gatgtgctc catcggtttt agacgcgcgg gaagctctcg ccagccgttt atgtagtgtt 2220
 tcgcgggcct gctcttcagt caaggcaaca atatccacct ccagatcagt atccacgaca 2280
 catataccct cccctgagg ctctaccttg tcgaccagaa atttgaagga ttcttctga 2340
 ccccggggca ctgtgagtgt ttccccggtc gtcaatgtgg tgtaattgct gcgtagatga 2400
 cgctctaaca gagctttcca atcatcggtg tcgtaaccag cctctagcgg gcgcaatcgg 2460
 acataagtac ccttaggcag ttgctcggcg tgaacggtta ctatgggggc gtcggcgctcc 2520
 ccaccttctt gggaaatgtc aagggttcc cgtaatgaag cactaagacc gatctcgctc 2580

tctctcgcgg agaactcgcg gatcccagcg tatatcacac gagaattttg ggtgttgacg 2640
agccggaatg tcagtggatg aggtaattgc tgctgtcggg ggacaccgtg ctgcggtgtg 2700
tgagactcag ccgcaaccgt acgggggacta aagaggccaa aggagctggg gtatggacgc 2760
agaggtcgct gtgacgatat ctcttgaagc ggagcggcgg cgagaagctg ttcgagagca 2820
gattgcggaa gaatgatcct gtttttatga aaaataacat tcagcataca aatctggcga 2880
taaaggcatt gaccttaggg aaccgaagag tgattaccta tctccagaga gtttctgtgt 2940
gtattgggga ggagtcacgg taaactgcga cgaccagcga agttgggtcct gttccctagc 3000
cataactttt tgcaaggctc aggtatcttc caccagggcg agcaacacat ccttaagcga 3060
ttgttggcca ctcgagttga cgtgaactga gtcttgttgc catcttcag aagataccgc 3120
ccggatttgt catcctcaaa cgctcttaag cagggtccatg tactttatat ccttactggc 3180
ctacatgtac ttcttcttaa tacacgaaca acaagaaaag caaaaaagag agggctggct 3240
tgtttcatta ttaatccaag gcaaccata cctgggtagc tgggtggtcat tcaaagagcg 3300
gaatggcatg ctatatgcgg ggtatacgat aatgctatca aacgcaacag atgaggtcat 3360
aaattacgtc ttcaaaaaga atct 3384

<210> 1812
<211> 2169
<212> DNA
<213> *Aspergillus nidulans*
<400> 1812

gtccaatcgt tattcctgat ttctcacacc cgtcgacaca tcgtacccta cttactgacg 60
agccggttct ggcggtgact atattgacca ctgcttcaag acatatgaaa ccaagcggag 120
atggtgcgaa ctcccggtgc ttctacattc atgatcgct ctgggtcatat ttgcgcggga 180
tgattgagcg tctgttttgg ggccaggaaa agtttggcgg caacggcatt gggatcaaca 240
aacctcgttc ctttgattta gctccctcct cagcgaaggt taatcataag ggtaatctga 300
gatctttggg cacgattgaa gcgttattga tacttacgga ctggcaccgc cggaatctac 360
attttcctcc tggagacgat gagaacgcat tacttgatct ggatgccag gctggccggt 420
acgacaaaga attagataat gacggtgaga ccacagcgca gcgaagctct agtgggtgcg 480
ctgagggcag actggccttc cagacgtggc tagagccagc ctggcgggtcg gaccggatgt 540

catggatggt actcagtact gctcaagcat tagcattcga gctcgggtgtg tttgaccaa 600
agaacgatac caaattatca gcagaaccgc cagctgagca aacgcgaaag cgtcgtctcc 660
gtcgacttat ctttgtgtat attacgcaga gcagtggccg tttgggcata ctttctatgc 720
tcccactacc acagtggacc gatgatatcc agccgacgcc actaaccggc gtgaaaggca 780
atgaggttga caaaatgcat gattgttggc ttggaatatt caagatcatg tatcaaagca 840
accagctcct gttcgcatct aacgaacaga cttctgattt gataagaagc ggccgttacc 900
gcgaccagat tgatcgattc cagcctttcc tccgagaatg gcgacagaac attgattcga 960
ctgagtgtag gtgcataatt gcctttcatt ggacaaatgc taaccatatt agtgcaccct 1020
gcaatgagac atatatgtat gattgaatat gaatacacac gtacgtttcc ttctcgaaac 1080
ttatgaccac ctggcttact tctctcaagg ttatcacgac aactctttag cattgcaggc 1140
tgtggtcgat cgggtggacga caatgtccaa cgaggccgct caggctcaga ataagccgac 1200
agcatcaaata aacgcgtcgt tccatgtgct aatggaattg taccgcgtca atgagccttt 1260
tattcaagaa gtcgttgatg cgtcgcgaag gattctgacc acagtgtcgt agggccttgg 1320
cccaggggac catttgaaac atgtcctgt cgggacgtgc tttcggattc tgtctggcat 1380
gatcttcatt ctttaaggtaa gtctttttct gaatctgaat gttgcgactc cgcattctaa 1440
catcttagac gttcaccctc ggtgcgaaag aagatgacgt gcgtgtctcc ctgcaccttc 1500
aggaccgcac cgttgaagca ctccgaacat gtgttgctga cgacatccac ctgagccacg 1560
ccatgccccg cctgctggag ctctcacga ctaatatccg cacacgcttc ctccgtttcg 1620
ccccctgga ccgcagtggg gacaacgaca gcaccagcgc cggccaggat cgcgcctccg 1680
ccccaacgtc tcgagccac tcgcctcgtt cagcagaagg cccgcttggc cgtcgagatg 1740
gctgaacaa cagccacacc tggccgtctg cgcaatcaac acataacaat caaataggcg 1800
gctatgcaga cgccatcct ccacgtcga caccctaac ctcggtccac gaccctctag 1860
ctggaattcc cgccaaccc atcaactcct ccaacatcaa cgtcaatttt atgccacccc 1920
cgccatctgt ctattacaac ttctaccaac cccgctcccc gccgcctca ggcgagatga 1980
acccttccaa tccaaattct ggttcagcgt ctccaatct cccctcgac tcgatgaatg 2040
agcagccagg tgtctcggat tgggtcgccc ttccgctaga ccagttcttc aactcctcga 2100
ctgcggctgt ggatcaaggg cttggtggga caggcccgat ggtgggtgag ttcgatatgc 2160

tgaggtttc

2169

<210> 1813
<211> 4014
<212> DNA
<213> *Aspergillus nidulans*

<400> 1813

catggttttca tggacaacag ggtctaattgt atccacgacg tattcccaga tgcacttgcc 60
gctgatgtct ttggcggttct tcatatcttt tgtgagacca ttgcgcttga aataatcctc 120
cacaatcatg tttcgctgat tccgaggaac gccgcgcttt ccaggcaaac cattcagtgc 180
tcaccaccgc ccagtgaagg ggcttgctca acagaacggc cctgatccgc ggccagatct 240
gacgctgttc agctagggctc tgggcctcgc agagcttttt cacctggccc tccagaccga 300
agactttgaa gatgtagcgg atcatcttga tggcggtggcg agaaccgccg gtctcataga 360
gtcctcggcc agaagatgag gtgaagacat gactgtgttc aagccaatac tggaaagcct 420
gacttgatag gtgagggctc agacgggaaa tcaaaagggt ccggaactcg ggatgctttc 480
cttcgccgaa gattttccaa acatcacggt gaccgagggc gatgaagctt gcaaccttga 540
gctcgatgag gtggttctgg ttggggttca agtcaacggc gtgcacgcgg cgcgggctct 600
tctgcagata gtctaggatg ttgtcaccag cacttgatg agccagtata acgtcgtcgc 660
gctttatgtt gagtagtctg tgggtcaacc gagggtcctc ccagttgaag gcatagatgt 720
actcattctt gaattgagtg tgtttcggga ggagatcatt atagaagatg cggtaatggt 780
ggttttgata gaaggcagca ggcaggggaa ggttggcgct caggttgacg acggccgact 840
catacgcttt agagtgaatc tcttgtgtgc tctggatgat tgcgttattc atctcctcgc 900
gatggtttgc tggagagaga taaggcgatt ctgtgaaaga agcgtccaac ttttctatgg 960
cctcacggct ggctgattc gggtagatgt ctttctggcg gccaatgaag atgtagtaag 1020
ggatgcctcc gagtaagtag ttacgctcac tagcagaaat gacagttcca aaccgatatt 1080
ccaaatagtc tcggcgagcg gcatcgaggt tcacacggtc tgcctcaaac caagcgcgcc 1140
agaacgcacg acccagccag ttaacatgtc ggttaaagac accgccaata tagttcctgg 1200
aggagacatc gacaatgctt tggacttttc gagcattagt gtttcttctc attgctagct 1260
gcaaacctgg accctaccgt agaaatcaca aacaccaag agaccagacg gcttcaccaa 1320

tttgcttagt gagtccacca cgctgtaata atctattact gtcagtggct gttcgagaat 1380
 tgcataaaac gagtccttac ctggaatcat tgacaggcta taactcattg tgaccagatc 1440
 agcaccggct cctacgctct ttagaggatc aatatggctc tctggcaatt ggaaggcgcg 1500
 tgcgctcctgg caaacgacag tgacattctt ccaccttagt cgttcgaacc gctggcgagc 1560
 tacctcaagc agagaaggag aaagatcgac aaggtagaca tgagagaaga attcgggaac 1620
 gggcacgaac tcggccatag cctcgatatt gtatctagag ctgtcagaaa acgacagagg 1680
 aacgctgtgc tcatcttgat gcttaccggg taccgccacc aatctgcacc attcgttagt 1740
 ttttcggggc cagcgggaac acgagaacct tacatcgacc cagatcgctt tgcccttccg 1800
 aagctccttg ttctcgacct tgtacttgag ctgagcggca acaagacca gcatatcctc 1860
 ccgaccacgt agaaggcgct tccgggtagc gtcgtaaaca gtagcctggg gagcagtcaa 1920
 ttgacatcct gaaagccagt gaacagaaga tgagctcata cttgagtaga atagaagctc 1980
 tccaacgcat cttgttggcc gctcccacct ttatcatggg gtttcaggaa gctggcatag 2040
 atgaacctga ggtagacgga aatcccgtta ttgttatcga ccttgttgcg cttctgcgac 2100
 gccacgacga ggacaactgc gacaagcgcg cagacgaaga aagcagcgcc cgcaatggac 2160
 gcatagtgc ggtcgaagcc gctcagaagg aaccggctg ggccactggc aagagagctc 2220
 atggcgcaag tgggaaggaca cgaccagaag gacagaagag aacagactgc cccgaattga 2280
 gcattgagtc gggagggggc ctttcttcag tgaaataccc ctccatcgcc ggccggccat 2340
 cggggaagag gagctaagct tgccccctt gaccaccag gactgtctgt cgacagcggt 2400
 ggttccta at gtaagggaac gaggaagagt gcaaaggaca tgacgcccta tcaggagcac 2460
 acatgggccc ggcgcgagtt gggaatatcg actgaaaacg gaactgggtc aacagcggca 2520
 gaggtgcaact gagtagttag atagacgac ctagatccat tctcttgcaa ttggccccgt 2580
 aacacacccg ggggtggagt gcctagtgtt agaaccagtc cgatgcagcg tgcacgaggc 2640
 aaatggtcca ggactcgca cttctgctgg aagcatctgc agctgttcag agggcctatt 2700
 cagagtacag gccagcgcac gggctaggaa ccataaagcg gttggcaagt aggagagcag 2760
 cgtggagaca tgtgtgggaa tccggcgagg agaagaggag gaatccaaac ggtcggcaga 2820
 cgttcgggga gacactgaat agccagtata cttgggcggg tcggccaatc acagcactcc 2880
 attccaccac actttggcct tcgcattccg tacggtcaac atcttcaatt cgccagatgg 2940

cgaatttcag aggatttaga cggcgtcatt cagaatgaat taaatgttat tgattgttga 3000
tagcaagcta caagaatgag cagaggatta gctgtgttac taacgaagtt ggtgattata 3060
tatagtaagc tcatgcgaat atatcattaa actaggctag aatccacttt caaggtatct 3120
gaccgtagac tttgaatctt gaagtgtttc tgtctttcag cacggccata tgaatgcttt 3180
caggtagatg atgtcagcat atatccagcg acaccataac ctgcaatcaa ttgggaatcc 3240
gccaacacgt acctgccttt ctttccttga accactagca catcattatc gtcagtcatg 3300
gttggcgctc gttcttgatt tacttgctct ttttcttcac cttctcacta gcgtccatag 3360
ctaccccatc tctctgagat cgcacgtga gtttacagaa aaagaggggt tctcagaagc 3420
tgcttggatg ttcatgagaa catcttgagg tgccagtacc actattctcc cactgctcca 3480
gccgttagat catctcaccg aactagtacg ggtcaatcac tgatcctgat gatatatgtc 3540
aacgtgaaca gaactgacag catactccgc agcatcgcac aaggagacgg tagccgcggc 3600
aatgtttcac cccgtcgctg atcaagtttc acgatatcct ggtccgcaga ggcctcgcg 3660
agcttgcgca gctatgtcct tggtaaatgt ctctgggtga cgattcgggtg tgaatgatgc 3720
attcattcgt tgggctgttg cagaacacag ggaggctgga acgaaacgac gcccggttgt 3780
gtccagttct ccacgaagga tacttgaggc ggctagcttt ggtttgcaag cgtccgtcat 3840
atgcaacgat cgggtttgat acttcacacg agggagatgg tcaggtaagt aagtggatt 3900
attctattag tctgggacaa caggcttttc gagctggctg agcgagtatt tggactgctt 3960
aagcatagcc taagctcct gcttgcaaga gagttttttc tcctaaaatc tccc 4014

<210> 1814
<211> 3474
<212> DNA
<213> Aspergillus nidulans

<400> 1814

cctatattat ctggctatag aagacagctt gccttgttga aatggggcga accattctga 60
cggaagattc gacaacctag ctggttggat tcatagcctc aacggatttt cggttcattg 120
tccatcatat ggccttcgcg tttacaggct gggcgcagag gggccagga aaagggttt 180
ctcattgacc gtcaaacaga tatgaatgaa tcatgcagta cggccacata gggcatcaaa 240
gcgctgtcca tgggggtcgc tatgtatcaa ttgaccaa ttcctgtcc cgtcattac 300

ttgttacatg tcggtggtac catggtgaac cagtgaggct atttttatca tttcccttcc 360
 ctcatcgtga accacatgtc acgcacctc ttaacctggg ccggcgtgaa gtgctcgtaa 420
 cactcatcag aagaataatc cataaagttg tgtacagggt ccacacccgg gcttcctggg 480
 catgagtctt tgcgagcagg acatccatcg gtcggaatag actcctgggg tgtgtcttct 540
 atataatcac cctcgttgtc aaggagcaa gactccccct cgaaagtgtg caggagtccg 600
 ttccagtgc caatttcgtg tatggcggtt ccgcctcgtt tataatgcgt tagagacccc 660
 cctggcatag tttttgcaag cacgttgcat ccgtccttca catagctgga acgcagacta 720
 gtactgttaa tactcgggtc gggtaaagtg cagaagccga gaacgcttgc tgataactgt 780
 tccgaagtac cgagcagacg accctgagat tcggagcctg agagaacttg gagatcggac 840
 tggaagtaga cattgagggt tcggtagctg cctctacgga gggcatcttt catgctaagc 900
 tcgtcttcat tacgcgcca tttatcgttg atatggcgcg ttaccccttc gagacggtag 960
 cttattgaag cgttttgata tgcatcttgg aggtaagata acttattata gttagtccat 1020
 taatcaacat tatgtgatgg aaaaataggt gggctggcac acgaataaag atccagaact 1080
 aacctgagta gcaatcatc cgtccgaaac cacgtcgcca ctgccttgc tgctcacgac 1140
 atggaaccat acctctatct caatgggctc cagcgcctta cgacttcctt gctcgactat 1200
 gccatcattt tcgagagcgc tcaattttct aaattccgcc ttcaacgatt catctgggcc 1260
 tgcagtagca caatatcccc tgccccaacg aggaacagca agacaggttt gctgaaggaa 1320
 ggccagcata agaaccaggt cctggagtcg acgaagtga agcatctcgt ctgagggaat 1380
 gaacgtttct ggacttaccg agaagatggg caatattaaa aaagagtccc agcgttgcta 1440
 acagttacgc ggcatggtat gcaatcattg tcaattgttg gcattggaaa gattgttgaa 1500
 ccaggccggg aatgcgacag caagggatgc agaaaccacg gatggcggac ataggaaagg 1560
 agttcatttg tcccaaataa atactccgtg tccaaaacca aagacgcaac acgctgcagc 1620
 aattctaaca tataaggatt tgctgaaaat aaattggccc gtatgcgctt ttaccacctt 1680
 tggactctc aatcgtaaac acgtgctgc cctttaccaa attgagaaac tcgaaatgaa 1740
 gccgggatac cactcgaatc agaatcaagg ggcattgttg caagcattat tgatatacag 1800
 tatgtgaaaa cgaaaaggga aatacatgga aattgaacgc caaacaaaat aaaacttaac 1860
 gggaatgggc cccattccta tcatctcgcc cagtcgcgat agcggagcta tcctgttcgt 1920

tgttccaagt caaatatgca tgggtctccca gtttcttgaa gatgtcagct catgggtcgggt 1980
 tggaaaggaa aaaccttacc ttggacggac taggtgcgca attgtgaaca tagctccgag 2040
 aagaacgcag acacctccga caacaacgta ggcaattccc atgaatggat ttcggcctcc 2100
 aagaacactt cgggtggaaa ttagaataga tttggtaccg ccataatcag tgacgggaaa 2160
 agctagcatg ctgtcagcac tctacgtatg ttattactcc cattactatg aactcacgat 2220
 ctttgatgtc caaccgatat cgtcccgact gcatggattc gttgtcattt ctccgggaca 2280
 gcttgctaaa tgtgggcaat gcggctgttc tcatccaaac catgaaatcc tcatcttcat 2340
 gcagatttgg gattccactg tcgtagttag gatagcgttc tcgccaatg ggtggcggaa 2400
 ctaccgcacc tggttcgtac tcagtcttct tgatgagctc tttgtcactg tcccacgca 2460
 tacccttctt ggtcatattg tacgtctcag gatcaccacc gcggccgtta acaagtatag 2520
 ggttatttat tgtgtcattg aacatggagt tcgcgatgag tccgcaggga taataggcct 2580
 ttccgttttc atcgagcttg aggggatcgc atgagccacc attgatcgta gcgtttttga 2640
 cagcctttcc tttcagctga tccatatcaa ggctcttcac gtatcttcga tgattctggt 2700
 agaagttagt aagacggtag tacatgaaaa ccggcggccc gatagtatcc ggaatatcaa 2760
 acatcagtcg gcaatgatcc tctccattgt cgttacggaa acgttgccag gacggccggt 2820
 gatcgaaaga cgatttgaac gtatatttga atttatcatc agggatcgat acagcatccg 2880
 ttgtggcgtc cttgcagtct gaatagtcta tctaattc ttgaacctaa gagcaaaaat 2940
 caaagtcaga aagcaagatc aaggtacggg agagtcagat tgtacagttg aactagccca 3000
 tagcaataac ccaccgatag gggcaaaaat gactccgacg atgaaaaaga gaggtaaaac 3060
 actcttgggt gtcaaaatcg gcctgcagcc cgtcaactac taaccccagc ataagcattt 3120
 gaatttgcgg acttactgcc aggtcttttag acgttggtgc cggaaggcag tgtctgtatc 3180
 ctcaatcagt atcgtagaat cgtacggata atgaggagct ctcaattgct ggccttctgt 3240
 ttttgggctt cttatcaatg tcggtatctc ccctatgttc ttgttacta aagggtcaa 3300
 tactgttccc ctgtgaatga gacatagttt ctcataagac ccattccata gagaaatata 3360
 tatggatgta agcgcacgtg tgacaataag tattgtcgct gttgtctaag tagacaaacc 3420
 gtgggtggcg atataacggc ggttgctgctc ttggtaggat cgccccagga attc 3474

<210> 1815

<211> 3444
 <212> DNA
 <213> Aspergillus nidulans

<400> 1815

```

cagtggccca gatttcgccg gcgccaagga tctgttcggt aacaaacata tctccatcac 60
tgaacaccgg attaagtaat tgtcatgtcc gctcaaggta aaaacattcc tgcagtacct 120
caagaacatg gtgtgatgac ggtctgtagg atcagaagga aagatatcac ttcttgccctg 180
attgttcaag tagtcttttag ccgatacgtc aatgtctatt aagtcgtcct ggatcgtgag 240
gagcgagccg cacaagggaa gaatgtcacg tcttagaatg tcctccgaca atcctgatag 300
gacgcggagt tcagctagggt gcagtgagcg acgatatgcy agtgtgacag agctaagcac 360
accacggcaa aactcccaca tttcttcctt ttctctgagt tgtctcaata actgatcgta 420
ggagtcactc gtcatttgtgc gttgtgtgcc tttcgtcccg ttgtgggggt gccagctgt 480
taaggactgc tgctttgagg tgtctgagca gacatccatc ggtggccttc tcgattgttg 540
tgtcgtagcc ataggaagaa aactcggag gatcactagt ggcgaaatgg tttgggtttc 600
aagtcaagcg taacgcagtc gcagcttaga aatgggtgcta taaatgcgag gagaaatgag 660
atagcaagag cgcaaaggaa atcgaaacga acggccacga gatagtcctc agccgatcct 720
aagaaacaga aggacagagg tctcgtcccg ggggtttctt gagccttgggt ctggtctttt 780
cttattttat ttattcttga aagcgggttt gtaaagcatt ccctagagtt aattacctga 840
ggaaccgaca aggaagccaa aggatagaac aagggatata ctgacgaagt ttctagtcga 900
atgtcacttt taaactggga tcagatggcc tctttgacct tgcaaggctg tgttgcttca 960
gtgcaaagcg ggggtcagct gaagtgggtt gtctgacccc tgcccgttct taaccgcgag 1020
gattgcccac ctctcagacc atcgactcct tgccctgaggg tacggactga cacatgggggt 1080
agccgcacct gctacctagg catgagacag ctgtaatttc gccattcaac aacctatttt 1140
agccggagtt gaacgtcatg gtgtcaaatt ctctgagtc ctccgccgag tcctctgtca 1200
agagtcaaca gaaaaaaaaa gcaaaaatgc atggcactat cgaccatgcc ccgccgccgc 1260
gcgtgggttg ctgaagagcc tacctccacc ctaccctgtt tcccctgtga atagctttga 1320
ctatggcggt cccctccttc gaagccagcc catccttctg aaaggtaagc gtatatgtgt 1380
ttcatgaacg tgatattggt gagattgcgg gaataaaatg ctattttggg gagtccctgac 1440

```

atcctacatg atcctgcccc catgttacgt ctttgaacc tgtagttagc ggccagtgtc 1500
 gtctcaaatt tgtagtaat tgatactaaa tcataggcaa accattgtag tctatgcgcg 1560
 ttaaggtttg ccagcatctt tcgtttcgtt gaggcagat aggggcaaga taaggcacgt 1620
 tggcttgagc gtgaaatgaa cttcagcgtg ggtaaatctt accttgtcgg acgggggtggg 1680
 gtataggaca aagcttccga tcaacacatc ttcctttggc atttaggctg attttgcccc 1740
 ggagctaadc ttaatcaggc tagcagagta tgaccgtgac agattcatag tgcaggtaca 1800
 catttcatca aattacgcca cccgaaagct ccaacccttt attcgaccgc cacctctgtg 1860
 ctttatgtgc taaggtagcc gaaacagccc aaagcttggc cagattcgca tggaacaaat 1920
 atcacgggca tgtgatgttg ctcatgtcgg cgattgacca ggaaataccg tatggttcca 1980
 cgatgggctg gaagcttgac ggaagcggaa taagaattgc acttcacagg aaagggttaa 2040
 aggcataatc tcttcaacac actgagatgg agacaataag agatacatta gaatccatat 2100
 tccacggata gaccgtgcag aaccggcag cttcatgaca cagacgatac ggcttcttaa 2160
 cccgaaaata tttgacctag cgagggttaag agtgttgaac tgagaatcct acctgaggct 2220
 tgagatcttg aactagctat tgcaatgtat gagccgaagt aatacagagg acacgttctt 2280
 gaccaagaac tgttgtaaat tgttgcaaaa tgggtgtgctt agtagtaaatt ttcagggtta 2340
 taatcggagt gcgagacca gtccagatag tccagcagcc accaataata tatattctgg 2400
 aagagaatta atatctcta acgtatgtgc gcttaactag atgcggttga ttcttaacgg 2460
 gtgtggctag aaggactggc tacgctcaat gcttatcggc cagaaggctc tgggcgacat 2520
 atctgcagat attcttaacg atgtaggaaa atatagctta gtgtgttgca gtatcgttac 2580
 aaagcatagc agaccgtccc tcaccaggac attgtccgca tgatattaat gcatactgaa 2640
 tttggccggt ccaggaatag tatcatttag atatatattt accaacaatg cattcatcga 2700
 tatggcgctt atgagttcta tattcggtta tacaggctct gagaatgaac tcccaacata 2760
 caaccgcaa ttctttacat gcgccatgtg ttccacctag gtaagggaac ctcaacctac 2820
 cccaccggca acatttgctt ataggagct aacaatgagc tcctccaacc caagctcgcg 2880
 cgcgcgccga atccaagccg ccaaatatgc tttatcaaag tgggtccata aagactagcc 2940
 attcgagatg ccaattgatc aaatgtgata cccataccac tgctatgggt ccggaagcgc 3000
 acacggctat tgtgcgtttg atcttgagca atgcacctcg cgacctctgc aacgtcgtgg 3060

aagtcaaaaa agccctcgga ttcggcacca gtggcacagt gcgacttagc cgcgagaaac 3120
 gtagaattga attcctcgcg tcgtcggacg gtgcgcgac gccgatgact gaaattgttc 3180
 ggtagagacc gataggcagt gcgcatgcgc gcgacaatct ttccaagaac gcttcgcttg 3240
 cccacttgaa agccgtgaat cctcagacc cgtcgggctag tgaagagtac gccatcattg 3300
 attctgcgtt ggccttacia gccccgcgt gaagaatggc ccggccagac gagacgaaat 3360
 gtagcggcac ccgccgggaa tggcccaggt agtaatgttt gtgtggacag caggtggctg 3420
 actggagcga ggtatagtgg tttta 3444

<210> 1816
 <211> 2623
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1816

cctccatgta ctgtttgatt gcgtcggctc gtcgcttgct ttaaaggtta atggaagttt 60
 gaaacggcgg ctgggtacct ttgcacggct gaggtcgccg agttgagtct cgatagtgca 120
 gaggtagtcg attagctttt gttgcggtat cttggtgccg tcgtagtaaa tcattagggc 180
 ttttgggaga tcttggttag taaggcatac tagctgacat cagaaaaatct tacaatttcc 240
 acagccgacc aagtttatca agccgtttga tactgagata tcgcctgctg cctcgtctgag 300
 cacttttttc agcgcggtga ctctgtagcg gtggttcaga tcaaaggcac caacgccgta 360
 gtcaatcaga aggtagtcac caccggccta ggaaactgtt agatcggcag cttatcagga 420
 atgtccttta ttacctgtcg gtaggaaaca agcggctggt tccctttctc tggaatttga 480
 tgcacgatgc cagagacccg tgttgacgag gacatggctg gaggcaaaga agaggctaga 540
 ggagttatac taccgaagtc ttcccccttc tgacagcatt gcacaatgtc agatataaat 600
 ctctccagct cattgcgcgc cagtagagta tctttcaatg acgtagctct gaatttcaat 660
 ttgtctccag ctttgacctg tcctagtctc cacaggctct ctttgacaat tgtatgactg 720
 ctaacaaagc caccaagatc tgggtgcatct tgccgggaaaa tcaccgggtc gtcacctgtc 780
 cagttgattg atccaatggc gtatccacac tcgattaggt tagaagggtg tgcaccgccc 840
 tctcctccat ccggccgagc ccagggtggc ttaggaccaa gcagacgaat cccacccctt 900
 gcagcggtgt gcgaaatagt ccattctgcg ttgtagagca tgtctatact ctcgggcgcg 960

agatatacctt catcatacgg tcccggcatc gacataagtt cccagctgtc aggataactgc 1020
 gggataagat gctccggtaa acttaattca ttatccgact cagggatttg ggcggagata 1080
 gttagataat ctccagatgt aagctgtcga ccctggtaac ctccgacacc gaccatgggc 1140
 gcagtcgctt tggagccaaa ccactcagct atattgggga atccaccgag gacggcaagg 1200
 taagccctgc aaccgccacc cgtggctctc cctatcttca agcgttggcc tgccgatacc 1260
 tttaccctag accacatggg tacaggagct tcatccagtt tggcatcaat cgggtgcaccg 1320
 caaagtgaga ttaccgctgg tccaaggaaa cgtagctctg gcccgctcag cgtgatctct 1380
 aagccctcaa gaccgactgg gttgcccacc agagcattcg caatgcggaa cgcaacagaa 1440
 tccatcggcc cggagtgaca gaagcctcgg cctactgttg gacgaccggg ccagtcttga 1500
 atcagcgtat aagcgccacc ggagatgaca tcaatagcag ctagattgta ttcgaaatta 1560
 ttcaagaact tagtcaaggt gtttccagcg ttaaagtcct tgttggcaag gatttcagcc 1620
 agaaacccga ggtagtttg agggccacag atccgtgacc cagttaggat gtctctcagt 1680
 ccctcaatcg ctttttgctt gctcgatgca tgatacatga cctttgcaag aagaggatct 1740
 attccttgctc aggattctct tgcaggtaca ggatttgcac aaagtcttac cgtagttcgc 1800
 ggacactttg attcccctgt acaccacagt atcaattctt gatcctgtgg tttccttcca 1860
 atccacgtcc tggagtatcc cagggcaagg agcaaagtcc ctgactgggt tctccgcata 1920
 cactcgagcc tcaatggcaa acccttgttg agcgcctacc ggaatgctcg agagaaactc 1980
 tgcttcgaga ccttttctgc ctgacaactg ggcacccgct tgtcgaagca tgagtccac 2040
 caaatcaacg ccgtagcata gctcggtaat tccatgctca acttgaagac gtgtgttcat 2100
 ctccaagaag aaaaacttcc ccgattcgtc atccacgaga tactcaattg ttccagcgga 2160
 gccatagtca attgattcag cgaggcggac agcggcgtcg cacaggcctt tctgagctc 2220
 cggattcctg gttacaaagg ggcttggaca ttcttcaatc actttctggt gtctcctttg 2280
 gatggagcac tctctttccc caatggaaat agccttacct tgcccatttc caaaaacttg 2340
 gacctcaatg tgatggctag acggatagta acgctcgatg aagagtccag cgttcttgaa 2400
 gagagettca cccctggatt gtacagtctg aaacgattcc cgtacttctt tctcgggtgtt 2460
 gcaggtaagt aatcccattc cgccaccgcc agcggtgagg ttaagcatga cctgatgact 2520
 gtgagcgcag tgttatacta ggcacaaggc ggaaagaata caggaaatcc gagactttga 2580

gcgattttca cagcttgtgc ttgtcttgta acatgacctt gcg

2623

<210> 1817
<211> 2051
<212> DNA
<213> *Aspergillus nidulans*

<400> 1817

acctttactc tctgggttgg tcttaagcta cgataaaaat ccgttctatg ttgctctgca 60
gaggcagtac gggcatgagg tgtcgaatat gataacccgg ctaaatagatc aagtgttagc 120
ggctccaata aatgggtgtcc agtgtctttc cgcatataca tccaacattg ccgcgctcat 180
tcctcgctgg ccgcagcttt ccgagccctt gattcaggca ttgagcattg tccatgacct 240
agcagaacca aaagacgacc acagcgggta cggcccgga caccaaatgg tccccatgg 300
gcatcaacaa gcaatggata caatatacag cctcgttcgg tcggtagacg agctatatca 360
gactcacatt actaaaaaat ccccttgat aactaacgag gccagtgcc cagtgtctcg 420
tcataattca aacacataca tggccctgtg caatcagagc gcaagcttag cctcgcagat 480
tgccgacgat ctgtctatac aggttcttga tgacgctccg ccggttagtt tgccaattat 540
tggtttttac ggttgagat ttggcgttct caaaaagcac atcatggacg gccgaatgga 600
gctccgtgtc gctgggattg acacaatgca aggtgacttt gtcaacgtct attctcagta 660
tatgcgaaga gatatacct ctggactgca taatcctgtt gtccaattta tgctcaagat 720
gctgagggag aataggattg tcgagtacat ggtcagcatc gaatcccatc cccaactgat 780
tagtagaagc cataacatag taggcttctt tggtgttacg gggacatata ctgatgcgga 840
taccgacact atttgaaaa cggtcacaga aagcccgga cctcgaacgg tgtctgaagt 900
gctcggaatg cttatgaaga cattcagtct gcatcatgat ttatctggtc ttctttatct 960
atgttccaag ttgttgagc tgcctttgac ccattttgac cagcgaatgg tggagtctg 1020
cgaacaacta tttcacgttc tgcgtgaaag aaatccgatc agacaagact cctttgacag 1080
tgtacacgtc gatgtgaggc cgttacgtct gtgcgtgcgc ctaattcgcg agagtgtgtc 1140
gaccgaagac cttgccgtcg atcaaaaagc ttccctgcaa aaattcgctg gtggccaact 1200
aagttccttt atggatgtag ggcttagcga tgccgataag atggatatct atgagagatg 1260
cgttcaggat atcgccgaaa agaatacatt cagcgtgggc agcatccaag ccctaaatgc 1320

tcttctcagc agtcaagatt cgcaagagat ccggaagctt gctaccgagt tcaatctcac 1380
atacctgctt atttccgaga tggctgaagt agtgcaaggg aaccgaacag attttgcgga 1440
taccttttca agaaatggct tcatttcccg tgttcaaagc ctttcccgga ttattgaaag 1500
gatgctgat tccattactc cggaactcgg tgatatctta tggcagaaca tcttcatgtc 1560
ctcatctctt cccaacaag gaagaagaat tctctgggat atgttctgcg caatcactag 1620
gcacgtcgtg acaggggaatc cgctcattga ccgctgcac caatattacc tacctaagct 1680
gtcgccctcc gcagattatt ccctcgaggt gctcgcgctt gccaaacaga ctataaatta 1740
cgagattcgc ttcaaccctc cgtcctctgt cgccgacaac gaagtaattt cgattcctgg 1800
aatggataga atatggaact ttatcctgac tgcaccccca aactcaatcg aagccgatgc 1860
gactgctttt gccatagagg tctatcttga tcataacatc atccatcgct ctcccagttc 1920
atctgttgag gcgaccacat ggctttgggt gacagttgtg ttgatcactc aaatccgcgg 1980
catcaaagct gaaattgtac tcgggtgacc agcagatgtg aagaatgatg gttgtggaag 2040
acctagtgat g 2051

<210> 1818
<211> 2498
<212> DNA
<213> *Aspergillus nidulans*

<400> 1818

atgtagggta tatgtaatta taatacgaat ctactatttg ctcaattctt tgggtgcttta 60
gtcccagata tctgctctgc tggctctgcg ttgatgctag ctaaaaggac cgatgccacc 120
tcgaaaccgg tctgagtcga gacgagcgat ttttacgggg gggggctctc aaagagtgtg 180
gtcctccgta gacgaggcac caatccagca tggaaagaca gcacgtgtcc tgccgcagtg 240
gatgacgagt caagcaacgt caagagtttg gcaagaaaag acaagcgta caggaaactc 300
tcaggctctgc ccgcccacg gaatgacagc cggcgcccc accacgtgca gaatcggggc 360
ccccattgg ccgccaacca aaccataagc tcttcctaag ctgttcctaa gctgcctgcc 420
gagccagcgc caaggcgcca agataaacc ggctcgatcg gggttcaagt ctcggcgaat 480
ggggagggac cctgcacgaa cgtggacggg cacgtagtgg tagaggccag aacgagagac 540
agcggccgat ggcatgcagg cttctggaaa gtggctcagg gtggtcgggc gtcgagactc 600

ggggtgtttca ggtcagctcg tgcagctggc gcagttgggtg cagctcgtgc agctcgtggg 660
 cgctcatggc ccgccaagt cgcgaacggc cgtctacacg tgggtgatgt gctgacagac 720
 agacataaaa ggactccaac gtcacctggt ttcgggtccct gggtttctgtg tctgtctcat 780
 cccggtcagt ctagacttca cagcagtcaa gatgggtgctc gaccagtaca cctacatctt 840
 gccattggc accatctttg ccatgctgga tgcctataac aatggagcca gtacgtgacc 900
 tctctgctgc tgetgcttct gctgcttctg ctgcttcttt tgcctctgcg ttggtagtat 960
 tgctgttctg ttactggctc tgtcgtgct actgctactg ctactgctgc cctgctgct 1020
 gccagcgac gtactgaccg cgcaacagac gatgtcgcca actcctgggc caccagcgtc 1080
 tcttcccgt cgatctcta ccgccaggcc atggtcttcg gcaccatctt cgagttcctc 1140
 ggcgcgtga ccgtggcgcc cgcaccggc acacgatcaa gaacggaatc attcccccg 1200
 aagcctttga gggcaacggc ggcgtccaga tgctcgctt tgcgtgcgc ctggccggcg 1260
 cctctcatg ggtgatgtgg tgcaccggc actctacgca cgtctcgtcg acttactcgc 1320
 tcgtctctgc catcgccggc gtcggcgctc caacggccgg cgcctcctcc gtccaatggg 1380
 gctggaacaa gggcaacggg ttggggcgcca tcttcggcg cctgggcatg ccccgccat 1440
 ctccggctgt ttcggtgcta tcatttctt cctcatcaag ttcgtcgtcc acatgcggcg 1500
 caaccccgct cctgggtctg tctggaccgc gcccttcttc ttccttatcg ccggcaccgt 1560
 ctgctgtctc tccatcgtct acaagggtc gcccaacctg ggcctttcca aaaagccgcc 1620
 cggctgggtc gccggcgtga ccctgggcac tggcgggcgc gctgcctgc tctccgcctt 1680
 cttcttcgtc ccgttcgcgc acgcccgtgt catcaagaag gactacacc tcaagtgggtg 1740
 gatgttctc tacggcccca tctcttcag ccgtccggcc ccggcggacg ctacctcgc 1800
 cgagctctcc agcgtcccca actacgcgt catgcaggac gacggcctcc cgcccgactc 1860
 gccagagacc ctgctcgacg agccccctcc gccagccgcc cagtcggaaa agaaccctc 1920
 tgettcagct accgaggctc agctcgacta taaggagctc gtcgctcgc gccaggagcg 1980
 ttccacgcc aaactccgac gcggccggc ccccttggcc tgggcatgc gcaccctcca 2040
 cgacaaccog atcggtccg gcgagatcta cgagctgcac aacatcaaga tctgtctaa 2100
 gcgtattcct gccatgatca ccgttggaact gctctatggt ctgcactacg acattcacgc 2160
 cgcgcagtcg ggtatccatg ggacccccga gggggccgc atggagcgag tgtatgcca 2220

tgccaccaag tatcccaatg aggtcgagca tacctactcc tttgtccaga tcctgacggc 2280
 ctgcaactgcc tcttttgcgc acggcgccaa cgacatcggg aactccgttg ggccgtgggc 2340
 ggttctctac tctgcctgga ccaccggcaa ggccagttag tcgaaagcgg aggttcctgt 2400
 ctggcagctc gctgtgctgg cgattatgat ctcgattggg cttgtcacat acgggtacaa 2460
 tatcatgaaa ggtactttgc cttttccctt tacctttc 2498

<210> 1819
 <211> 3323
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 1819

gcacccctgt gtcaacggta tagcgatgca ccattcctag gtgcatgggt ccggatcctc 60
 gatctcgttc gcctttgggt gcacagagcc ggaccacgaa gattaaaaag gtatcagctc 120
 gttctcttct tttcaccagt ggctttctta tctctgcctc ttttgttctc tgtgccttgt 180
 ctctcccca tcatgatgat gttagtgttg ctgagatact gaattgcttg gctgctagcg 240
 gagcaggagg actttgatcc atcatactct tgacgtactc gcttgttgca tctcaagaca 300
 ggatgactca gtacctggca tatcagtttg ccggggattc gcccagtgcg gcacgtgaca 360
 tgtttggtca gttaagctat cggctctgtt ttcggccggg ggaagagcgc cctcagttta 420
 acattgcgta ccgatgggtg gaggatgaag caacaactat tctttggact tttgacgtcg 480
 aggtgatcaa gagagttata cgtttcaagc ttttctctga cgaacagttt ccacggatgg 540
 cgcttcacgc tcgaccaact tccacagtgg acgatctcct caagggactt tttgactctc 600
 aggaaagagt attctatgct aacctaccgc acgctcaaaa agtggacgcc attctacagc 660
 gatgcaagcc tactgctccg cccatgattt cgtggggctg gctcccagcc cggatggaga 720
 taggcgggac gggcgataac ttggaatctt tagccgtcgc caaggccatt gatgccgaaa 780
 gtcactttca tttcacccgt ataacatttg aggagctggg ccggtattcg ctgggttacc 840
 cgtctggcca agtggaatgg ttcttgccgc agcatacatg tttctatgcc cacctgttgg 900
 atcacctgca tgcatttccc gagcaggttg agagatacgc ggaggttgag aaggtttgtg 960
 gctttttaaa ggtgattgtg acattcttgt gcagactgac tgagcttccc atagcacctt 1020
 cagactcgaa gcccctttgc ccatcgcgct gtgattagtg ctctacaaga tgcaggttac 1080

gcgctcgaac tgccatgcat gacacccggg ttcggattct ttgctggagc aattcaacgt 1140
 cttttcaatg aactttctgaa cttgaagttg attttgaagg tgctcaatgt cttaggagtt 1200
 cgatttgcg cgttggtactt gcacgcccag gaaatggact ggtcgcggcc gttcagcatc 1260
 gtcttctctt ttcttgagga catggacagc tcggattcgc cagtgaagctt tgctcgtaat 1320
 ctgaccagat ctgtcgagcg ggattttgcc ttactgattg aaggggggtac ttggacaaa 1380
 agtgtggcta atcgtctgtc ggaacgttgg cagcttctct ctgtagaagt ttgggaatgt 1440
 tgcaaggcgc ttccagaaac gatccggttt atccaagaat gtttagaggt aagtcacgc 1500
 caccaggat gattgtctgg ttggctaaca ccctgcagcc tctattgact ttgcggaact 1560
 accattccct gactgccatt ctcaagggc ttcacaagta ccgcgtttcc gaatcttcgc 1620
 tcgtccgcct tgaaaacgga acaactgccc tgaatctgaa ccaactgctt ccttctgaga 1680
 tggtatacct cctcaatccg tcacagaact acgcgctata tcggcagcaa tatcagcagg 1740
 cgccacggat tcccttcctc attcctcact tgtatgagta tcacagctt ggtgagccta 1800
 ttcttcaaaa cctctatgag caaatgagcg ctgtcattcc tcagctctaa tgcgatgcac 1860
 tcggatggat gctgggacat acatatgcga cgaaatagc tgaaagtgt cggtgccgac 1920
 ctgatggct ataacagcaa aacgatccat cccggcccgat caatagaata atacgaaatc 1980
 tggtgggttt ttgtttgttc cctttgcccc tttccccgaa gggcataatc actcggcttt 2040
 cgcgggactg tttttgattg attgaattgg cgtgtactct cgcttattgt gtcacgacgc 2100
 tactgatatg tactcttagc gaattagact acatcaggtg caggatgaga ttaaggtgta 2160
 ttctccgact gaacagttaa ggaatgagca ttccagaccg tcagaccgc ttcttcggct 2220
 ccttcacgga gccaccttca gcataccaa aaacacccag gcagtacaaa agccgattca 2280
 caaacagaaa ggccgtaacc ccaacattgc cccaggtgag cgcattccac ccaccgacat 2340
 caaagaaaag cgctgggccc atggcaaggt aggtcacgta gatatgccct acatcaccaa 2400
 tggccagagc gaccaagtag ttgcgcagca ccttcggctc cgaggtggcg tagagcacgc 2460
 cggcgccaag gagcgccata agcccgtaaa cattcgccag ctgataggcg agggcgaagg 2520
 aagttgcctg gacttccagc tcctccggcg caggggataa tggatatctg ccgacgatga 2580
 atccctgcag gtcgaagatt ggagctaacc agccgccgat cctgggtttt ggtaagctgc 2640
 ggagcgtcgc gtgtctatct ttgtcctgcg atggagggga tttcatgatt acgcagacac 2700

agttgaatag gggttgggca cgtacaggggt tatgggctca aatatagcaa aaacgatatg 2760
 gggccagggtt gggaggattg tggctggcat tgttttattg tgcttgctga tcagtggcaa 2820
 agagtgggtt gaaattgatt atcgtgctca atgtcgagta atacgccgc agggaaaatt 2880
 cctcagacct gcaactagag gacggagtgg ggntgttggg gctctgaagc tgaagctgaa 2940
 agatgtatgg ccattatgc gtgctttata ctgntgctga ttcagcatc tgagctcaca 3000
 tgataagggg ttcgatctct gattgtctgg ctgagctttt cttccccaag cacacagcac 3060
 attaatatta ttctaagcaa tgagatttcc acgcaagaga ctggngtctg agtctctcag 3120
 agttttatag tgctagccat ctttcttgat tgtgccttcc cggcccagga gacgaaattg 3180
 actttcggcg atgatccaac ggaatttcgc cgcactacat gaatccttgt cgcgacttct 3240
 tacctcgatt gttctttcga agcgggttcat tccgaactag atcctttgcc ttagccagcg 3300
 catggagccg aattagcctt ttg 3323

<210> 1820
 <211> 1051
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1820

tacgtgacct accttgccat gggccagcgc ttttcttga tgcgggtggg tggaatgcgc 60
 tcacctgggg caatgttggg gttacggcct tactgtgcga gacccggggtc gtcgtcgggg 120
 tgggtggtcaa gggggagaaa gagaccaata ttgactcata gaaggactga agtcgccgac 180
 tagatgaaag ctacggagtg aaggagtggt actctcggtg gtagataaga agagagagac 240
 caaacagggg gcagagtata acttgagagac tacgtgatac gccaggggtgt ttcgagagac 300
 gaggcaacca cgactgatgt tgactggatt cctgcttggg taggtatttg actttccaag 360
 cactttcacg gtcctgggat ggggggcaac tatggaacgg tactgtaatt cgggctttag 420
 ttgatagcag ttccaagtgg ccgatataag agtattgtga gggatgtcca aatcaataag 480
 atatgtccaa actttatata gtggttgagg ctctctgat ggcaccaagt ttcctgctt 540
 ctttcagatt aagagaagat aggtatatgt agaccaggac catcgtagac tagtaaagaa 600
 aagatgaaaa agagaaattc gtttcccatc ctcaatcgcc tgacagcctc ttccagcacc 660
 actcactcct atggcaatgc ttcttctca tcccttatct gacgttcttc tgggtgctcc 720

agaccacgca gctgctgcat aacgccagag ctgatattct ccgcgattag gcgctaattt 780
 gtctcatctg tcgactcagg cacttaagcc ttaaagggtga cgtgagcgct tggcaaagag 840
 cctttgccga cactagcgat ggcggcttcc cgagcgctg taaggcatac tggctgttaa 900
 tacctcaaca cgggtgggtag agttgatggt cttgaccagg gtgatttgca gcaagtagca 960
 ccacctgacg ggaggtgatg gtggagtagc aaggaagtat cccagatctg agagaaaggg 1020
 gttagatggt gctgtcagat tttagaggat g 1051

<210> 1821
 <211> 4284
 <212> DNA
 <213> Aspergillus nidulans

<400> 1821

gaacactcgt ccgtcgcctt atcaagctcc ataatcgctg gactagttac tgactcggaa 60
 ctttctcttt gtccattoga tactccttca atctcaggcg tcttcatctt ttgtgccatt 120
 tatgacgtcc ttgggtccaat tttatttttt ccttcacata gtacttagcg gcattctgtca 180
 acgccttttg tcgttcctcc ttttcccaac ctctactttt taggttctgc tattgttttc 240
 cggagggtta tcttagaatg gatcaggcca tctacatctc ctcatctagt gaagatggat 300
 ttaatgatga tccacctctc ttcgatgaag gcgacaattt tcaggaacag ctaccggacg 360
 aagagcggtt tgctgcttac ttcgacagag agactcctga agagttgttt ccagacaggt 420
 ttcccaaaag gcaaaggatc catggccccg gggacgtcgc tctcgaccaa atgctttcaa 480
 gtccgcttgc attccggggc cctgattctc cgcagtcttc aatggcagcg gcagctgatg 540
 gtgccaatat actcttcatg cagatttttag agatatttcc tggcatcagc cacacgtacg 600
 ttaacgatcc tgatagccca aaaaaccgtg gcatttcggc tcggcgcgga tctcaaagca 660
 cgtgggttttc aactggcgat attaagagat agcatctatg aggagatcct cggtcagaaa 720
 tcgtatccta aacaagacag tgagaacggc aaaaggaaaa gggaagagtc tgaagaggcc 780
 gacattagct gggaacgtac ttacaaaac gcaacaaaca gtcccgaata cttcgaggca 840
 gcgtaagcca cctatcatga taggagtcac tgttggttgca aactgatcag tttatacagg 900
 tctgcttttc tgggaccga atttccatgg gtgccgatga gtcacattaa gaaagtcctc 960
 attgataagg gacgccttta tcacgcattc gtagctcttt actctgacga taaccttctt 1020

gagcaacgga agtatcaata tgtgaggttg aaaagtcaga gaagtacgaa ctctcccaa 1080
aagtacaccc ctcttcgtga cactcttata cgtgagatca acgcagcgag aaaacatgta 1140
gaagaactgc agagtgagtg gcctgtcttc ttcctagctc aatgtaatta ttctcattgt 1200
tcctactagt cactttgctc aaaaagaagg aagaagagga ggcggaagag gcgaacgagg 1260
aggaacacat tcggacaggc agtctcattg agtgccattg ctgttacgcc gatgtcccgt 1320
caaatcgatg tattccgtgc gatggagacg accttcactt cttttgtttc acgtgtattc 1380
gcagatcgcc cgacaaccaa attggtatga tgaaatacat actacaatgc ttcgacgtca 1440
gcggttgtca agcttcgttc aatcgtcagc aactcagga aatcttaggc ccagtagtca 1500
tggacaaact ggattcccta caacaagaag acgagatccg aaaggcaggc cttgaggggc 1560
ttgaggattg ccctttttgt tcctacaagg ccgtcttgcc gcctgtggaa gaagacaggg 1620
aattccgctg cgagaactct caatgcaaag tggtagctg tcgtttgtgc aaagagaaaa 1680
gccacatccc ccaaacttgc gaagaatata gaaaggacaa ggggctctct gaaagacacc 1740
aggtagaaga ggccatgagc aatgctctaa tacgaaaatg ccccaaatgc cggctcaaga 1800
ttatcaaaga gtatggatgc aataagatgc aatgtacgaa gtgccatact ctcatgtgct 1860
atgtgtgcca gaaggatata acgaaagagg gctatgccca tttcggacgc gccggatgtc 1920
cccaggacga tatacatagc caagaccgtg atgacagaga gattcagaga gctgagcggg 1980
ctgctatcga taagattcta gcagagaatc cggatatatc cgaggagcag attcgagtgg 2040
gccatgagaa aacaaatgct caaactcgcg gagttcgtag agaccgcggg ctgcaaccag 2100
caattcaaat gcgggatgct atgagagtta tgagggcgga catggggggg ttctaccctc 2160
aacagcacca gcatgctaata acagctgcgc aaagacaact ccccgctctac cctccgccag 2220
cttacaatgt accataccct atggactatg gcactatgtt caaccacact ttccctggct 2280
ttaatgtcct tcaaaggggt ctccagccgg gcaacctccc agctcagcct gcggttatgc 2340
agcccatggg agtgggcttg gccaaacctc ctgcaaactt tcaccacag gacattcaga 2400
atatcaccgc gtttccccct cagcaaagtc tacctcggaa tcaaaacgca gcttatcgcg 2460
gtgtcggttt cggacccttt tgagttcctt aaagaagcaa tccagctcca cgtctacctt 2520
ctttcccgtt tggcagtaca acttcacctc atacacctc cgaaatttat ggcctaaata 2580
attttgata ttcgattcaa tcttggtcgt tggagttaac ctacgttccg ccgtataccc 2640

agaaaagcgt tatttgctt tcacactgag cgtttcttgt tccagtcttt tttccctcct 2700
 cgtacttcta ccgtctcatt cttttctaga ggggtctgat acagacactg atggtgcact 2760
 gactatactg caacgcagca ttctgtttcg cgattattgt cctactccct gaaacgaact 2820
 tccattcccc ttaactgtcc aaacattttt cgtaccaga aggcatacaa ctttcagaac 2880
 ttagactcat catacatgcg atgcattttc tgcatttcca ttatatctgc tctaatatgt 2940
 gcataggatc catccatacg agtttgtcct gtactctcct tgggcactta atgcgtggcg 3000
 tattcaaccc catccgtaag accaaccatg aaatgctcac tattcactca ccgatatcga 3060
 atatgcttat atctctctcc tgacacacct atacttcagc caagatgaga taaaaaatgg 3120
 gaggtcccc tgtgcccccg ccaactgaag cgccttctgc accaccatag ctggctgacg 3180
 tcaaaccttg ctgcagggac cgatatcttt cgaattccat acggttcggg ccacactgtt 3240
 atcgactcca gctatcctat gaatgcagaa ccagccagta gaccacatag cttgatgcca 3300
 ggcagtcaat cagacctcgg ctatggcttt ctagacgtag attgaacgca aataactgac 3360
 actgtatgtc gtgtttaatt ttcttcccta cagagctact caatcatatg aaatactacc 3420
 ttgggaagct tgtcccttg gcttcaacc atgagtacgg gtgattattg agaggctcca 3480
 gctcatatgg ataccgactt gactcgacct accttcgcac tgcgtgctgc tgttaacggg 3540
 gggaaggatg gtaacactca tagctaaggc tagatagtta gatttgctag taggaaccgt 3600
 gtaaaaaaac tccgacagga caagacgga cgacaaagta caggcagtgg tatgaatggg 3660
 aagggtcgat gaaggatgga aaggagaaga gaagagagaa gagaggaaag gaatgttcac 3720
 gtgagagaat atgaaatggc ggaatgaaag agatgatgaa cctgatctat gtaaagcca 3780
 tgcgagtccc aaaattcgtc cgctccccat tttatatatt tgcaccactc attggacgac 3840
 gataccagaa tttcacttca tccatcatat atgttcgac attggtcacg ctaaaacaag 3900
 aagtaatgag gtaaaaaact gtaagaaac gaagcacccc cgaatgctcc acagtagtag 3960
 aaaacttggc aagcagaaaa tatgagcagc aagtcagttc atttatggcg gatgctcaga 4020
 atccaccggt tcattgaact tctgccgtgc ctcttccacc cataactcga gacgaagtgc 4080
 tccggcttct acacgacgta ccggcactgt tttggcacgg ccggttgaca ctttcggggg 4140
 cggttggtgc ggccaccgt tcttgagctt cgaaacggaa tatggagccg aacatgatcg 4200
 gagatgaact ttgcctggtt ccgccacaac ccaggtctgt tcttctgttg tggccccgc 4260

aggaggtaa gcatcctcgc ggaa

4284

<210> 1822
<211> 5044
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 1822

cagagaaata cctcactcat ggtgcttcgt gcccgctctt tccagctaaa cagcaccccta 60
ttgccgggtt gccgatttat catgaacgat agtaaccaa gcaccagcta ggtcatccgg 120
aacgtagagg gcctcagcct ggggtaggat agccaccttg aatctgcctc gccgtcggtta 180
cataccgaaa tccccacatt tgcgtagtga ctataacaag tcttgagttc agaatcattg 240
aactgttcga actgcgatga gatctcgtca cccgtaatcc taacaatacg accgtgtcat 300
tgtcggttgg ttaaagggtg agcaagaaaa tacggcacga ccatcacgtt gcaggagaat 360
cgtcggtgcc tgctagagcg gcttcgagcc gagccttctt ggcccgcgc ttcattctcgc 420
gcttgaaaag aggccttctc ggcccatccg catctggctc agggcctgta gatgccttcc 480
ttttcaaatt gtcgccattg ttatcagcgt ttagcttagc acctgtatcc ttacaatgg 540
ccacagaagc agctgcttcg gaagcaggag ggatttgtcc accgtcaaca acgtcgatga 600
taccgcgcca gctgggtccg ttcagtcggg ctagagcagt aactttcctt gtttccgcgc 660
tgatcgctc cttgccagc tctgtgaca aacccatac acatgccaga ttaatcacat 720
cgaacggagc gcgacacct aatgccctt tggcctcact cgacacaatg attccgcgac 780
cacgggctgc gcgaatcagg gccatcgctg tgccgatcag atttcgacgt gcttctagtc 840
cgcttctgt gactcctggg ccgtagcata tttcgaagcg gataccgcga gcgatagcag 900
cagaaagcat cttgaacttg aagtataag ggtgcctgat tgagaggtct aaggaaatga 960
tgtcgattc tgcattggtg catgcattca gtaacgctt ctcgttggtt ggggcgcacg 1020
caaccagatc ataagcctga gctatactgg taaggcgtg attctgcgcg gggctctgaga 1080
ggggtatgtt gaggcgcgtg aggagcgtaa ggtctttcgg ggcgtcgctg ggaagcggcg 1140
gcgggtagg gtttggggg agttttccgt tgatagtctg cgaaagggca acggttgtgt 1200
aaccactta ctgtcaggtt agcttttcat gtggccatat tcaacctgaa aaacgcccgc 1260

tggtcgtgtg gccccgggcg tggccagggg agaaaaaggg taaaaaatgc ggcatacgtt 1320
 cggcgagaaa gcttagcggt gcagagatct caggatcacc cgggctataa ggcacgttca 1380
 gatcgtagta catgacgaac cgttagagtt taaaaagggg ccaatgccag cttctgttgt 1440
 tgtcctctgc tcctcagcaa agaaagaaca agctcagaac tgtcccagaa aggtaagcca 1500
 cagtaccgcg atcaatgttg ttccgtgata gccgcacgtt tcatgacagc agaccaaadc 1560
 tggccccgtg actctaaagg cggagcgtca agtcggggtc aatccactat tatcagcaga 1620
 ataggttgaa agagcctaac tttctcacca gtgatagctc cagacgatag cacagctgcg 1680
 acccatcaaa tcgcctcggg tgcgcttcct cttgcggtcg ctgctgtctg tctatcaagc 1740
 ttgcgctgat ttctcacgcc atcccagttc atcccaacgc accgtccac caaccccgcc 1800
 gccgcttttc gccagtctga atatccaatt gtgggcttga taccaacatt gcttttcagc 1860
 cgccatcacc atggcgcgcg tctacgttga tgtcaataag cacatgccac ggtcctactg 1920
 ggactatgac agcgtgaaca tttcatgggg cgtcctggag aactacgagg tggtcgcaa 1980
 aatcgggtctg ttccattca gtatcgtcga gatttgagga ttttgacta atcgtgtctc 2040
 atgcaggccg cggaaagtac tcggaagtgt ttgaaggaat caacattgtc aactaccaga 2100
 agtgtgtcat caaggttcta aagcccgta agaagaagaa gatcaagcga gagatcaaga 2160
 ttctccaaaa tctggcaggt ggacctaatg tggtcgctt gcttgatgtt gttcgcgaca 2220
 atcagagcac gaccccgagt ttagtttttg aatatgtcaa taataccgac ttccgtacgc 2280
 tatacccgcg cttttctgac tatgatgtcc gcttctacat ctacgaactt gtgaaagcgt 2340
 tggatttctg ccacagcaag ggcacatgc atcgcgatgt caagccgcac aatgtcatga 2400
 tcgatcatga gaagcgaaag gtttgatgcg ttctgtttt gaatgaatga gctctgattt 2460
 tcttctagct tcgcctgatt gattggggtc tagctgaatt ctaccacaaa ggcacggaat 2520
 ataacgtgcg agtcgcctca cgctacttca agggccctga attgctcgtg gatttccaag 2580
 aatatgacta ctccctggac atgtgggtgc tcgggtctat gtttgcttcg atgatcttcc 2640
 gcaaggagcc tttcttccat ggcaacagca actccgatca gttggtcaag atcgccaaag 2700
 tgcttggaac tgaggaacta ttcgagtatc ttgacaaata tgagatcgag cttgatcctc 2760
 agtacgacga gatcctttcc cgcttccctc gcaagccttg gcaatccttt gtcaacgcgg 2820
 agaaccagcg attcatcagt gatgaagcga tagacttctt ggacaagcta cttcgttatg 2880

accatgcagt aagcctactc aatgcatctc cgcaaaggat atctcgctga cctgcattta 2940
 ggaacgcctc accgctcagg aagccatggc tcatecttat ttgcacaaa tcagagccga 3000
 agaggcggct aatcgaagta ctgcatcctc atgagtcgtc ttacgatcat acatgccgtt 3060
 atcttgatct agaaacacct cgctgtctag accttttccg atgataatta tcgttctacg 3120
 cgaaccttac gaatcctctt accacaatat tctgaatttg gtctacgtgg agaaatacct 3180
 gtgaagatca gcagtgaggt tatgggactc tttcacttgt gctggatttt attgaaagat 3240
 gccgggggtc aaggactggg ggaaatgggc ggagcgacga cgaacaactg acataaattt 3300
 acctctgttg ggtattaacc ctacagccct ttccattggc gcgttgagcg ggtagcaatt 3360
 cctgtggcag aatcggcgtg cggatattgt tacttttgtg gtttgcgcgc gcggtcagaa 3420
 ctccatctgg ggccaacgct tgcttttctt actctgtctc ctcttgagta gttggactgg 3480
 tgttcatgga aatttttctc ttcaactcct acaacctcct ctctgcatta tttatgctca 3540
 tcatecttat tccttttcta ctatgtcct tcgtggtttt gattgcagct atcgggacat 3600
 tcatacattg ttatcattga atggcgcggg ggtagttcg acagtcatat aatacactca 3660
 tgattcatac acatgctgta ccgctatgtc ttgcgcttca gttgaatgag tcagaagcag 3720
 aggaataggt cacgtgcccc gagatttggc cggacgtcaa gttattgcgc ttcataattaa 3780
 tcccttgagg acccatgtag acttagcttt tcgagcagcc atccgcttgt tttgttcggg 3840
 gatgttctag acaatttaca ctattgtcag gccaaactga attcatcatc tttcctctaa 3900
 cagcattgca ctactgggga ctcatcaag cccgcagtg ccagacttga ttcgttccgc 3960
 tctctgttca gcgcctggga aatttaattt gccgcattt cccacaacgt ccgacccctc 4020
 cccctcttat cccttgtcgc cgtttgagtc atcgggtggtc aagatactta tccgacattt 4080
 cgtggcgaga gcggcgctta ggagacttgc tctccaatc tatcgatctt tttcaaggat 4140
 ggctcaagac tcagcttcca tgaaccaag tcagcttcat ccagctaac ctacagtcgt 4200
 cggatggaag aactaatgac tgaccttctg acagctgggtg agccgacagg cccgaagggt 4260
 gacgttctc ctgttgga taatggccaa cagaacgctg gccaggatgg agccgcgcca 4320
 aaggtgaaaa ctgagaaaga acgtaagtcg ccgcaaaaag ggaacgatct accacatcat 4380
 attcaatatc atctcgtctt gctgactgga ctatgcctgc ttagtgagc gagagcgcaa 4440
 aaaagccgag aagttgaaga agtttcagga gaaacaggca aaggctgcag caaaaactac 4500

gacccccaaa gccgaaaaga aagcgcccaa ggtcgaaaag gacaagacag cagacgcgta 4560
tgatcctaaa gttattgagg ctggacgata ccaatggtgg gaggaacgcg gccttttcaa 4620
gcctgagttc ggccccgatg gcaagggtcaa gcctgagggc tacttcgtta ttccaatccc 4680
ccctcccaac gttaccgatg cgctgcacat gggtcacgct ctcacaaatg cccttcaaga 4740
cactatgatt cgctggcagc ggatgaaggg caagactacc ctgtggctgc ccggaatgga 4800
tcacgccggt atctccactc agagcgtggt tgagaaaatg ctttggaaga aggaaaagaa 4860
gacacgccat gacctgngtc gcaaagcgtt tctggaaaga gtctgggatt ggaaacacga 4920
gtaccatggc aatatcngta atgctttgcg aagagtcnga ggctcttttg attggactcg 4980
cgaggctttt acgatggatg acaaactctt cgcagccgta ctgaaacttt gtccgtcttc 5040
atga 5044

<210> 1823
<211> 4977
<212> DNA
<213> *Aspergillus nidulans*

<400> 1823

ccgcgtgtcc gaaactgttg gaataaacac atgctcaggg aggaaggaaa gaagagtgc 60
tctgtatcga tgacacttac gtagcctact gaggaacaga tacctttatc gatactatgc 120
atatctctcg atagttattc aatttatcta tattcataca acataaaagc tttggatcct 180
ctggggttgg agtcgtggcc tagccgttta tgtcatgtga tttccgtagg ccctatgtag 240
tctatattgg ttagttgggt tgatttgcca tgtgattgat acctgcaacg aacgattgca 300
ttgatgtgcc taatggagca gctgggacct gtcataacg caatgtgatt atcgaatgat 360
tgaacgagcg aggtgctgga cgccttatct gccctcctgt acttccaagg ccaatctttt 420
ctgcgccttt agtgtattta ctgggatctc gcctgtaccg gtcctaggcg gctcgacagc 480
tgtccatata aacgttgttt tgagcccttt gcataacctg tatgaagttt taatcaacct 540
gcagactagc atacagtacg aacatgctgt atagccctta tatttgata tactaggatt 600
ttactcaagg gttatagtct cattaggaga ttctgcgaaa tgtgctcttg gctgttgcc 660
ggggactccc caaaacctg cgcgaattag caggtttggg ctgggattct ggccctgggc 720
cggttgcagg ctttgtcatg gtctagctat atacacagga agcaaataag ataaggcgtt 780

aggataccaa aaggatgagg cttgtataac caagaaggct aggatctggc ttttaacgaga 840
 tatgaaggca gctatgtagg gcaaaactaa gtcacacgta actccaatgg ttttttctta 900
 tagttgaaaa gaaaagattg gccttttgca ccaggaccta gagctatatt gttgagaact 960
 acttcagcag ggtagattag catgttaact agataaagac accgatgcca cgtaagccca 1020
 atgatagagg aacgaatagt caaggtaata caggacaaga ccttgggacg ctctgaccg 1080
 gacgatctcc cacggactga aatatactta tggggatata tgactaaacc ccagtatcaa 1140
 cgtcattacg aagtctatct gaaacaagta gctaagcccg atggttccac tgatgtagtt 1200
 tctcactggg aaaggctcgt tgggtctgat cgcttgctg gggcttgatt gaccttttgc 1260
 cgaagacccc cgacttccga catttggctc agggggagta gttgtaacaa ttaaagaggc 1320
 ccttaccact gttaatcact gaaaacggca aaccagctg ccatgctact ttcataagcc 1380
 ctaaatagcc tgcgtaaact cactaaatgt caagttttct acctgcagtg atgttataat 1440
 attatttgta tacgctacaa atgtttcagt tatctgcttg tcgtagtagc tagcagacca 1500
 ggggagaaaa ataaagaaaa tagtcgccgc gtgaatactg gccatcaggt gatcaacaat 1560
 gcaggggtgcg ccgcacataa agtagcacat tccccgcaa ttcactctct gtgttcccat 1620
 gtcgtacaca ccctaacaa tcacattggc tttcccaaag atgctatctt ttggtctcgc 1680
 aaacgacgcc tggggtcac cctgggtggc cctccatta gccgtgatct tatatattgt 1740
 agtgctcggg gtatatcgcc tattctttca tctttatcg cgctttccgg gccctgtcct 1800
 cgcagctttg actgtctggc acgagttcta ttacgacgga atccggcgag gcctgtatac 1860
 ttttgagatt cagcgcacgc atgaaaagta cgggcccggt gtccggatca gtcccaacga 1920
 actccacgct aacgagcctt cctttattga tgagctgtac gcgggatcgg ggaagaggcg 1980
 tgacaagtac ccctactcca cgtgccagtt cggattccg gacagcgttt ttgggacccc 2040
 gggacatgac ctccatcgcc tgcgacggg cgtctcagc agattcttct cgaaaacctc 2100
 agtgacgaag ctcgagccta taatcgagaa tgccatcggg aaactctgca cgcagctcga 2160
 gagctattct gggtcgcagc aaccctgaa gatggacatg gcctttagtt gcatgacgac 2220
 tgacgtagtg actgagtacg ccttcgctaa aagctacaat tttctggact caccacggt 2280
 cgaacccaac ttccaccgcc ccattgttgc cggggctgat ctgggtccgt ggggtcaagca 2340
 gtttcccggt ctgctaaagg tgatgaacga cctcccaaaa tggatcctga cgagaatcaa 2400

ccccgaggcg gcagtctaca tccagttcca agaagaccta cggagacaga tccgtgaggt 2460
gcaatcacag gtcgataagg gagagtcgaa tgggaagatt ccgaccattt ttcacgaact 2520
cttgaccggg gatctgccag aacaggagaa acggattgag cgcctctggc aggaaggtca 2580
aattgtttgtg ggtgccggta cggagaccac tgcattggaca ctctctgtca cgctgttcta 2640
cctgctcgac aaccgcgcga tcatgcgcca atttcaagag gagcttgagc ggatcattcc 2700
tgatgcggca cagtctgtga cttggcatca gttggagcaa ctcccgtatc ttagtgccgt 2760
gatctgcgag ggctccgtc tatcatacgg agtgagcagt cgattgcaac gcatcaaccc 2820
ccttggaacc ctctgggtgc ggtctcggga tgcgaaaggc ggccacacg gaaagggccg 2880
ctgggtggag tatgagatcc ccaaggggac gccgctcggg atgacttcca cctgatcca 2940
taccaatccc gaactgttcc cggatccgca tgagttcaag cccgagcgat ggctcgatgg 3000
tgcaggaaaa cgccatcatt cacttgacgg gtacctgttg tctttttctc gcgggagtcg 3060
tcagtgcatt ggtatcaagt aagagcagcc tgctccctcc ccagcaggga gcctttgcta 3120
ggcgtctaca gtattgggcg atcttttgct gacagaccca cagtcttgct tacgccgaac 3180
tctacatggg actaggcttg ttgattcgac gccttgcca tcgcctagaa ctctttgaaa 3240
ccaccagcgc agatgttgag atccactacg aacgctttct gccgacacct aaagacggaa 3300
cacagggcat cagggttctg gtccatccgg aatcagaata atggcgacga tgccgatttt 3360
cttccgatgg aaatagtttt ggatccaccc tcgtgctctg gacagcgttg cctgtcgggg 3420
tatcaaccac acaggaaggt gaccaatcta gttgactttg tttgacaagt tgaatttctt 3480
ctaattgttag cggcgctca tggctgcgct gtgcccgcg ggtggacgtg aatcagcctt 3540
acagctgcgt tgctgttcgg agcatgtgaa gcacggaatt gtggcctagc tcaactgaat 3600
ttgcagtacg aaggctcgcc gtttgcatgt tgatttgttc gtgatatgtt catgatttgt 3660
tctttttccc atgaatctcg ataatccctg ttaccttggt ggtaaaccgc tgttgttgtg 3720
cttctatcag cctcatcca tggattgttt gaacaaggat aagaatttctg attcgaataa 3780
ggaatacaga ttaaaaccgt tctgacctta ttgtgaagag gtggcatcta tcagtcagcc 3840
cagcgcttgc catacccctc attgggctgc agatccatac ttcataggag cgaagtgtt 3900
tttagtggtt acccacciaag acccggttgc ctcgaacccc gaacttcaac atctcccag 3960
tgctcgtaaa acgagcgaaa tcgaacgcgg cctctagcct tttcacagcg cgatgtcacc 4020

tcactaaatt gggttgaacg gtcttgacac gttttccgcc tcgcttgacg gccatgatcc 4080
 ttgccttcgc tcgacctctc tgcggagact ttagggcttg gagggtgaaa ctgcatgtct 4140
 ataggccata tctgttgacg cctatggtag cagaaagctt gggccgccac accaaagaaa 4200
 taggagactt tggacacctc atgaatggtc atcccagacc cctcgtctcg cgttgatccg 4260
 accacaacaa atggtcgtgg ccaatggccg tggtcgtgca gctacgacgg acactaattt 4320
 tgcgacgacc actgtcgatc tgtgacggcg acgacagcgt gtgaatagct ccgcatttcg 4380
 cgttctggag cagggttccg cgctgtagag ggaaaaggag ttggagatca ccgagcggac 4440
 atcgtgcctc gttctcgcgc actgctgcag ctgtccacag gaatccagct tcgctattct 4500
 gattctcatc gtgtgcgaga agattgatag tatcttggag aaggtgtcgc gtgtgggagt 4560
 tggatctcta ccggtcctc cagcattacg aaacatccca gcagcttttc atgtggttgg 4620
 ggaagtacaa aatcaacgta atgaaggagc actgccaggt tttggcgacg ttggttacgt 4680
 tctagctttg ttggttcgtg gctcctcgcg gtagccagaa ggagtgcacat aggttgtaaa 4740
 tgagagactc agctgcgcgg tctcactaca gtgaactagg ggattaatgc atcgcaactg 4800
 ctactcaata tcagactgaa agtcatgggtg gggatatatc ggtgttattg gcctatTTTT 4860
 ctgccttgta ccttggtcgc ttaacagcca gaggacgata gtacggcaac gcagctcgag 4920
 tattctggat tatgaaaaga tatacaaaaa gtagcgtagg gaagcatcta aggtctg 4977

<210> 1824
 <211> 4418
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1824
 cctgcgtaca gatggtgtgg gtagcgggtc ctgacggact ggactcagcc tcgttttagag 60
 gctaagtcta ataaggtaag cctattcgga gtgaatatgg cagaatgcac cttttggctc 120
 atagacgggt tcgtgactga ccatataatt ttactcgggc ccatttgccg tatccatcga 180
 acagtcatat gcaacgactg taacggcact gcagagcaga caaatgcaga tcgaaggcct 240
 cttggttgaa ggtctatccc ttcaatcagc ggcgccctgg cacagacttc agtctcagcg 300
 tggcgaactc cagtcacgcc acaaatagga atacttttgt ggcaccgacc tcgctctctt 360
 acggccaccc tgcatatcac gccgatagtt gccgttctgg ttttcgagat aggagtgttg 420

acgttcggag ctgcacaaat gtcacaaact ccacttttaa ttacacaaac atgcgccatc 480
 ggtctactct gagtatatac ggccttcctg cagcgaatcc ccgaacctcg ccgctgccac 540
 ttgagccgct tctccaagtc ccaaccaccg attgaactct catcttcgcc ttataaaagt 600
 tggcgctagc agttgaggct gagactcaga ctacagaacca ggacaagacc agacgaacca 660
 ttggggcact tgagtcttgt cttgtcagtg actgtcatca agcatcttcc gtaagcagac 720
 gccaacgcag agaagaatca aaacaggcgg tcagggtatg atcatgtgcg gtgtatgtag 780
 accccatcct acagaaaata acgcaatcta tgtgagaacg cgcagtcctc tacctctgct 840
 ttgtatcagt gatgagcaaa tcccagagat ttctcgtttt cttccccgct tcgacggcat 900
 cttcagcatg gctaacgaat acgagccctg gcggccctat ggagaagggtt acgtggagta 960
 tcggccatgc taccggctta ggctccttca tgcaagccag ttacggctct acacttgaac 1020
 gggcaagcta gccttccaaa agatccagtg agttgcttgc tatgggttaag cctagaccga 1080
 atctttggct taggctcggg catggctcgt acactgtccc gtttggtctc atcacgggag 1140
 agcctcagtg aggctactga tcgttcgaca tactatgatt ggctgatttc aacgggatgc 1200
 caacgtcaat gcacatcttg aggattccat accagtctgt tccgtcttgg tcaatctcgg 1260
 ctgcggactg tagtggtatg gctaacccaa cgaggcttat cgacgtctta accatgccaa 1320
 atcgtcaggt ttcaccgctg acacaccaag tattgtggcg ttcgagttct tgcccgaacta 1380
 taaacagatt tccggctgaa gtggataacg agctttacca gtgccgctgg tcagattagg 1440
 tagttggatg catatcgacg tagatctttc gcaactccaag gaaaatgctc acctgtcgtg 1500
 tcagaaactg cacttgatca aattagaatg ttacacatca atgggtccctc gggttcagcgt 1560
 ctgtgccttt tgggccccca actatgtgct tccattgcac tgctgaggcg tgatatgaaa 1620
 cataacacaa aacagttaat tgaccagtca cttgttacaa gatgttggtt gttcaaagtt 1680
 gtgagacgaa tttttgctag cctctctgca ttgaaaagg atggcaagat gcagcgaaga 1740
 gcagatctgt cacatcactt tcagagcacg atactgagga aaccgcatgc atcttacaag 1800
 ccactgctgc gcatacatc tgaagtctgt tgcgtaccaa tcggactagt ccttcatacg 1860
 gcattctctt gggtatcagg atttttgatg gtccggaccc tcaactgtac gaagtacaaa 1920
 agcctcaaat ccacgacggt ccccaagaga ctcatgaatg accctcagaa tccttttggc 1980
 tctcgagaaa ccagtatcta cagatcctat tgggtatggc gtccagcacg gacccgacat 2040

ctggcgctcag agtgggcatg gtaatacgat actacactct ggaatgtag atttgattat 2100
 ccttattccc gagcatctac tttcattgaa taatacagtt tacctttctca tgcacatatac 2160
 tttaggtgca ggaccttatg actcggatta tctgcacttt gacctcatac caccgagagc 2220
 acagacagag acacctagac agagttaatc aatccgacgg atctctgccca taccacttga 2280
 tagacatcca caaactggac tcaagtaacc cgaaagagag tctagaccag gaatttcatg 2340
 gcatgacacg gcacgacctg ccacaaaaag taatctagct ggtaccaaac cctttggaag 2400
 gggttcaggac aggtcgaagc tcaaaataga tgaagaactt gaccggttg gactagccta 2460
 acagatttac caagttactc cttgattaac gacagatata acctaccata acaaacgtga 2520
 taggtaggtta cagtagcagc agcaatagtg gtaatggatg gaatgaatac gtaggggttaa 2580
 ggattatatt acactatcaa gttgaatagg agagtccacc ctgccttcga cgctcctcac 2640
 gcccgttcgg tattgcttcc ttcagcttac gtggccataa aggtttcggc aagattccag 2700
 caggctgtat ctacaattat ccagtgcggt ttgacgtcga gttccccctt caccctcaac 2760
 cttccgtcaa acagccagaa acatcttcaa ttgtccagtg atatggtaag aaaagtctat 2820
 cacagctatc tgtacaggtta aactcggaga gcgctcttag cgactcgtgt catagtactt 2880
 gaggcgcggc tttgcatttc tcgtccatgc tatgttgcca acggagccag ttgcgttcca 2940
 gcagctcaac ggctgggtggg aagtgggatg cctagccagc aggggaatggg ggcgagtgga 3000
 gagacagccg gatacgagac tttagctgaa gcttctgtt gtttcttgta tctgctattg 3060
 ctgctctatt ctagagcgtg gccattaaga tgggctgaac aattcgagaa cggacttggc 3120
 tcctatttcc tgagtgaaga tgggtgggtt gtctatagta caagaaggtc aggtaaggag 3180
 tataccagtt ccttactcgg ttttttactg agcatgtgtt tcttgagag cgatatttgg 3240
 aaggagacgg gggttttcta cttacaataa ttgcttctta tgctgccata gcctccaaca 3300
 gtctcgtcac taccagcacg aaggatggtg gaagtccact gtttctgagc caccagacgg 3360
 cccctgagag gcacctttgg ctaagacttt gcgagctttt cttcttgac gcgcatgatt 3420
 gttgattggg aataaaggca agtccagact gtggacctga aagagaaagt gggtagtag 3480
 cgagaagga gatgaaagaa tcgtgttaaa gaggaggaat aaaaaaaaaa agaggatgag 3540
 aaggcgccaa agagaggata aagttgagtg gataacacaa tgatagcatg tttttcaatg 3600
 actttgacac aagaaaggtc caaaactacc acgcatacac catcgcaatt aggatagtcg 3660

acgttttgaa ctgggtcaca attgcttgca tgttcaattc gcttctatag tttgtaatca 3720
ggaccgttgt caatatcgaa tggggatgct ccttgccgtt tgggtctactg caacccatga 3780
gcatcaattt ctcccttgac cactgtgacc gtcatttctt atggagcttt taccgaccaa 3840
cagtacggac acgagttgat cgcgcagcgc gtttatatat atgtcggcct gttacgaaag 3900
caaagttcct ttctagacag tcgtgccggc tctcggaaga gtgcataggc cttcttactt 3960
ctattcgtac gatgatcaag ctttaagttgc tagcaatact gcaggaacat acgaaaggcc 4020
tatacattgt accacgagac ctccctgccgt gaggacatgc gccgcattac caacctcaac 4080
atccagcagc ttcgactgcc attcttttaa cttgctgtca ttcaagtttt tcgtatgttt 4140
tcttaatcga ctggaaaaga acgaaagaga cgaaggacct gtacagactt ttggagtatt 4200
tcccggcaga cacctcgttg aattgccggc ttttaagcac gattctaaga gagccacaag 4260
gagatttgaa aaaatacccg ggagacagat ggcagaagat tgcgattctc cctgcaagtt 4320
gaaccctcgc aacgaacggg tctaattggc gcacaaagaa gaccttcagt tcaaaagtgt 4380
gctctagtta ttgaagaatg caggttgaat catgataa 4418

<210> 1825
<211> 3779
<212> DNA
<213> *Aspergillus nidulans*
<400> 1825

tactcgttct ctataccgcg ttcaaaccgc caccatggcg actgaagtac agaagatcaa 60
ggtcaagaac cccgtcgtgg agttggacgg tgatgaggta ggttttatcc tgagcgttca 120
aggaagagcc gcatgaaaaa taaatcttca attgcgttgt accccgcctt gcatggcctt 180
gcgttgtgcg actgcgcctt atatcatggc cgatttgacc ctccggagccg cattttcgtt 240
ctggccctcc gcaggtgcgg ggagaaacgg cgaaagttgc cttgctttct gctggatcag 300
cgtcaatacc cggaggttct agccttgacg ccaacaagcg tgcttgaagc ttatatcaca 360
tgtcactgac aagtactctt cctagatgac ccgcattatc tggaaggaga tcagggaaaa 420
ggtgagtcca cacttatgat cctctgcac atatcatgat gtagcttccg tcaactggccg 480
aaccctaagc taacggttac tcccatcata gttgatcttg ccgtaagttg atattgtacc 540
tcggcttggg tgcgtcgtgg ctaagatagg ctagtttctt cgatattgac ctcaagtact 600

acgacctggt atgtcttgaa tgccttgctc ccattttcag tgcactgac ttgctttagg 660
 gtcttgagta ccgtgaccag accgatgaca aggtcaccac cgagtccgct gaggccatca 720
 agaagtatgg tgcggtgtc aagtgcgcca ccatcactcc tgatgaggcc cgtgttgagg 780
 agttcaagct gaagaagagt aagcattata tgctcactgc gcggaagagc tgactgacaa 840
 aacaacccta gtgtggctgt ctctaacgg tactatccgt aacatcctgt atgtcacctt 900
 taccttttga aatcccttgc tattgcagtg tgctgatacc atcaagtggc ggtactgtct 960
 tccgtgagcc cattgtcatt cctgcattc ctgcctcgt ccccgatgg actaagccca 1020
 tcatcatcgg tcgtcatgct ttcggtgacc agtaccgtgc taccgaccgt gtgatccctg 1080
 ggcttgcaa gcttgagctc gtctacaccc ccgagggcgg ccagcctgag gctatcaagg 1140
 tctttgattt ccctggcggg ggtgttacc agactcagta caacaccgat gagtcgattc 1200
 gcggcttcgc ccacgccagt ttcaagcttg ccttgactaa gggccttcct ctctacatga 1260
 gcaccaagaa cactattctg aagaagtacg atggccgctt caaggacatc ttccaagaga 1320
 tcttcgagtc cgactacaag aaggaatttg atgccaaggg catctggtac gagcacctgc 1380
 tcattgatga catggctcgt caaatgatca agagcgaggg tggtttcac atggctttga 1440
 agagtgagtg catctaaaac agttgatgct gtcgtcgact aacccttta gactacgatg 1500
 gtgacgttca gtccgacatt gttgccagg gcttcggctc cctgggtctg atgacctcca 1560
 cactcatcac ccctgacggc caggcctttg agtetgaagc tgcccacggc accgtcaccc 1620
 gtcactaccg cgagcaccag aagggccggc agacctccac caacccatt gcctccatct 1680
 tcgcctggac ccgtggtctt atccagcgtg gtaagctcga cgaaaccccc gacgttgtca 1740
 agttcgccga ggagctcgag cgcgcttgta tcgatgttgt caacgaggag ggtatcatga 1800
 ccaaggacct tgctctgtcc tgcggccgca aggagcgga cgcgtgggtt accacccgcg 1860
 agtacatggc tgccgtcgag cgccgactca gggcaaaactt gaaggcccgct ctatagatat 1920
 atcatgatct agcgttttgc ttacttttat tgctgcattt ctaaaatata acgataccta 1980
 ttcatgaaga ctgcgttggc tagattctag ctagagttat tgggtccaag ataggaacat 2040
 ttgactacca tattgtacac ttaactgagt ggttgaggag agaactctgtc tttgtattac 2100
 gaacagtga gtacagtcaa tactactgcc tattgtctgt caataggagt cctgagcgcc 2160
 tgttcttata gcttatccct ataatgtgca tcgctcgtg agcttgcaac cacatcgacc 2220

acgacatttg tcttgacaac ccgagagtgc tggcgatatt ggcccgtctc gtgggtccgtt 2280
 catattttgac ttgtaataat atttcatgat atctttttgc ctctcaagta cgccgtgcta 2340
 tccgcccttt tcttgctact tactgcttcc agcaagctag gttacataac attccaagga 2400
 tagctgacag tgcacccttg gctcagaact gtgcacgacc aactggatgt tcttccggtc 2460
 tctagattca gactggatta ttactggccg ccacggggcc ttgacgcaat accaagcgtg 2520
 ctactaccat attcaggact accggctttt caaccgacct catctccacg cccatagtgc 2580
 ttccggctgct gtccctgacg acgcgccaga atctcatgct tatggctttc tttgctacgc 2640
 ctaagggtccc tgtcagggtat ttgcagggca gaagtgattt cgggcatata ttgtgcccgg 2700
 aggtgcagga tgtatgtact acctgtcagc ataacctttg tctctgtggc gactatcaca 2760
 gtggctctac ggctctttac acgcattcgc ttgggtgtgc cgccctgggt ggatgattgg 2820
 tttctgggtgc ttgccctggg aaataccatc ttcagttcaa tgcaccatct gggctaacgg 2880
 ttgattacag atgacggact acgccttctt cggtatcctg attgctgggt ggatttgctt 2940
 acatgcatat cttggagcta caaagtactg acgttagaca gaaaatgcca acggcctggg 3000
 gaagccgaaa gagtctctta ccttgggtca atatcgattt cacctcaagg tatgcagcct 3060
 gacacctcca ttatcggtaa ctgggaactt gcgaatgaca ctggtagctg ctttggatat 3120
 ccgttccttt atacaacctc tccttaaacc tgacgaaagt gtcgatggtc ctcttatacc 3180
 tgogtctttt cccgtctaga cactatcaga taatattgaa gatactgctg ggattggctg 3240
 ctctcaccgg aatgtacatg gtgcttggca cgctgttcgt ctgcgttccg atccatacgt 3300
 tttgggatcg acaaaatgtg gatgagaatt gtgtctcgcg agcgggtgggt tggatatctca 3360
 ctgctgccct ccagatcgct ggagacttga ctcttgtgat ttgcctatg cccaaattgg 3420
 tcatgctgcg cgtccctttg aggcagaagg tttgcctgat agtgggtatt gctcttgggt 3480
 tgttgtacgt ttcttctccc caggttatta tggacaacga ccagcgtaa actaacggat 3540
 atgattaccc agtattgtcg caacaagtgc agcccggatc gactccctga tcacgctcgt 3600
 aaattcaaaa gacctacca gttagtttag cctctcagat gttgccgagt gaagaaaagc 3660
 taacatgagg tacttactca gaagctaacg gctaatacgc aacctgggtc ttggtggaaa 3720
 ttaatgttgc gatcatctgc gcaagtctga caacattcag acagctcatt atacagata 3779

<210> 1826

<211> 4837
 <212> DNA
 <213> Aspergillus nidulans

<400> 1826

```

caagaacttc ctaactgaag agacccttgc cttcttggtc aagctggcta agcaagctgg 60
ggtcgaggag ctccgcgacc agatgttcgc tggcgagccc atcaaattca ctgagaaccg 120
tgcagtctac cacgctgctc tgcgtaatgt tagcaaccag ccaatgcagg tcaatggcaa 180
gagcgttggt gaggatgtca actccgtcct cgagcacatg aaggagttct ccgagcaagt 240
gaggagtggc gagtggaagg gttacactgg caagaaaatc aatactatca tcaacattgg 300
catcgggtgt tctgacctgt aagttttgtc acctgagtca gcagcaatga tattctgacg 360
cgcgcatcag cggccctgtc atggttactg aagccctcaa accctacggc caccctgac 420
tcaagctgca cttcgtctcc aacattgacg gcacacacat cgctgaggcc ttgaaggact 480
cagatcctga gaccacactg ttcttgatcg cgtccaagac cttcaccacc gctgagacca 540
ctaccaacgc caacactgcg aagtcattgg tctttgagca tgcaaaggat ggcgcccaca 600
tcgccaagca cttcgtcgtc ttttctacca acgcagagga ggtcgccaaa tttggcattg 660
acaccaagaa catgttcggt tttgagtcac gggttgggtg tcgctactca gtctggagtg 720
cgattggtct gtccgttgcc ctctacattg gctacgacaa cttccaccag ttcttgcg 780
gtgcacacgc catggacaag cacttcgcgc agactcctct ggagcagaac atccccgttc 840
tcgggcggtc ttttgagcgt ctggtacagt gacttcttcg gtgctcaaac ccatctcgtt 900
gctcctttcg accaatacct gcaccgcttc cccgcctacc tccagcaact ttccatggag 960
agcaacggaa aggccatcac ccgtaccggc gaatatgtca aatacactac cggccctgtc 1020
ttgttcggcg agcccgctac caacgcccag cacagcttct tccagctgct ccaccagggc 1080
accaagctca tccccgccga cttcatcatg gccgctgagt cgcacaaccc tgttgagggt 1140
ggaaagcacc agcgcatgct ggcctcgaac ttctcgccc agtctgaggc actgatggtc 1200
ggaaagaccc ctgagcaggt caaggccgag ggtgctgctg acaacctggt gcctcacaag 1260
accttccttg gtaaccgccc gacgacctcc attctggccc agaagattac acccgccgcc 1320
ctgggcgctc tcatcactta ctatgagcac ctgaccttca cagaaggagc tatctggaac 1380
ataaactcct tcgaccagtg ggggtgctgag ctcggaagg tcctcgcgaa gaagattcag 1440

```

aaggaactgg aaaccgaggg cgagggcagt ggtcacgact cctccaccag tgggtctactc 1500
ctcgccttca agaagaaggc gaagcttgcg tagcgccctt tttattttgg ccctagggag 1560
aaaagcagaa aagttgtgaa taattgacga gaacatgagt ggtacatctt cgggtgttttt 1620
tctttggtct tcggaatcaa atgtttaata atacgatagt atgatcaatt aaacatttta 1680
ttgaattcat atccagtaaa aattccattg ttttcgcacg aactgggtggc ggccaggcgc 1740
cccgttgcat ggtcgctaag gccttgagcg agcggagaat cgccgactcc aagggttgctt 1800
gctgggtcaa ccaccgtgtc tcctctcggc attcatcttt ttagaccaag tcattatcaa 1860
tacattgtaa ctcatacctt agccgcgtgt tcagctattc accgaatcag ctgtgcgcgg 1920
tatccaatat gacttctgcg ggaagaatgt ttctccctg gacctgggtt gcttcatgct 1980
tgtttcaaat tgcggctgcg gggagaactg atggctacgc atacggccag ccgatgccag 2040
taacctgttt gaatcggaca atgtgagtag aacctggagc actgagtcta agaagtatcg 2100
agacttcctt ccatgatcaa gtactgacgc cgttttctgt acccagcgac tccgggtgaac 2160
atgtatgtct gacctcaata ccgtgataca cttccaaacc atttccaacc taagcaacca 2220
cagaacaacc tactgaaca ggttactaaa ttatcactac gctagataac cgacgatctc 2280
ggaaaactcc aattcatccc cttcccaaca tgcaaagaga cctccgcccc cctcgccctc 2340
cgctacgggtg tctccgaatc agtcaattgc accatcgagg cctacctga tgaactctac 2400
catctactcg aatattacgt ccactcagac gtcccatga cgtgccgctt gccaccgcg 2460
cccctcgact ccagttctgc aacggattcc aagaccgacg agcagaatga cggaaaataac 2520
ggcggtgata atgtctctac gctagaggac aatggaccgc catacacgcc aatcacgttc 2580
gactgcagg gaactctgca aaaaagccac ctgcacatct ggacggacat gaatgtttta 2640
gcgcacaata tccgcagggt accgtcgcca gagaagacaa agaccgcgaa aaaggctaag 2700
gagaaaggct atatggtcgc gggaacggca tactcggttc cggaattcga gtattctctt 2760
ctccacggca aggggaagaa aaaagataac gggaagaagt cagacgaaga gaaagaagct 2820
tctgtgttg ccgaggccgc ccgcgagccc tggacagaag gacacgggac aaaagtgatc 2880
cgcggtgagc cgctgacttt cacgttccat gtaagctgga ttgaaggcgg ccgaggcatt 2940
gggtggccgg gccgtgatat ttcggtgtcg tcttcgtcct tgtccgggtt ttggtggttg 3000
ctctcgaagg tgattttctt tggaattgcg gcgtcagtgg gcgcgttggt cgcgctttat 3060

tgggagcgga atggcaacgg aatcgtgggc agacggaggg gttggaaggg agatggggtc 3120
 ttgggtgttc cagctgttgg taagggggcc gtgggtatat catttgga aa cgggtcgaga 3180
 acgaacggat atgggtacgg agggatttct gccaatgggt ctgggggtgg atatggcggg 3240
 tttgcgagtg gaaagagaga ttgatgggtg tagcttggtc tgggtgttgg ctacattgtc 3300
 ggggatctgt aaatataaaa cgttgcatat tttgtttata gccatacaa tgcgaccgtt 3360
 cacgtctaaa aaacaatgca gaaactcttc agtacatggg aatatacaca tcaacttgat 3420
 aacccttata tttgtcga aa agtagatgg gcatactgcc tacctaccac cttgcgccc 3480
 tcatcctctg gatctttcca accgtatgcg caaatgaata agcaaacagc tttctccatc 3540
 ttgaatccg caagtcttc ctcactctgg ccctccgaac atgatacttc tgggtccaagt 3600
 actgatactt aacattattc tccttgagaa ttcccgaag tctcttgagc gcgacttcca 3660
 aatcttgtcc gcgctcagg acaacagcta catcacgacc cagcgtcgga ttaagcttga 3720
 ggtcgaccct gcggcggttc tgacgaggaa ccgcgctggg gcttttgccg ctagagatgc 3780
 cagtgccaga ttccggcagtc tgctgactgg atgcttcgtt tctagacggc gcgcggtttt 3840
 gacggccagt gctgagattg agacgggtga ggacttcgtc gatgttgccc ggggtacttg 3900
 ggcggaggag ctgggttcgg gggggcggag atgcgggtgt agtgggtgta tcgggtgttg 3960
 tctcggaggc gttgttggtt ggggttgagg aagaaaagcg gagcgattga ttttgtctgg 4020
 tgaggaggaa ttggctgtgt aaaattgatt ggcgagttga gaggaggaag tgttgtcgcc 4080
 gtcgttgtcg gccttgaacg gaggcagcga gttaaagatc gctccattgt tccgtcttgc 4140
 cttcggactc gatctgaagt gaaaaaata actccagtac aatgacgct ctcaacaatt 4200
 ccttcttgac tcaaactgga ggcatgggaa ggagcggcag tcaccaagg cgtgggtcgag 4260
 acgagatatt gcagctccgg cttcattttt ccagatcgga agtctccaat caatcacgtg 4320
 atgttccttc agatagtatt tgattatttc aagaacgttc agcaatattc gcaactcata 4380
 aagcacacca aatataccaa gcatccagaa tgctctcaat cacaatagct aacctccac 4440
 gcataagccg cgatgcgctc tcggccctca tctctctgc atccacgct agcaaactag 4500
 caatcattga cgtgcgagac tctggtaagt gaccttgatc actcactcct gcagtcacta 4560
 acataatatt tagaccagct tggcggccat atcgtctcct caacctgggt tcccagctcg 4620
 aactagatg tccgcatacc ggaactcgtg cggaccctga aagataaaga gaaagtcgtc 4680

ttccactgcg cgctcagcca gcagcgcgga ctttctgcag cgctaaaata cgcgcgcgag 4740
 cgcgaaagga tgctaggaag tgaagaaagc cacaagcagg aggttttctgt gctagagggga 4800
 gggtttgtcc agtggcagga gatgtatgga aaggatg 4837

<210> 1827
 <211> 2671
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1827

gacaggagtt agtgaaagga ccacccacg cacaaagaaa cgagccgaat gcgaacacag 60
 gcaagcgtcc ctcaccagcg acaacaggga ccagaggaga gcacaccgca ggaggccgag 120
 cccgacccga cagcagccgc caaagacggc ctaaaccagg accccggggc ccagaaactg 180
 gctgaggacg tgccaaaact gatgcccgcac tacagggagc acgggaagtg cgaaggcagc 240
 acctctgcgt cacggccagc ttctcacggc tatccaggga aaggctactc atcatggcac 300
 attaccgggc gatgcctttt acaactggga ccggtctgga ccacgttgct agtttgaccg 360
 agattcatct acatgcatgt atgacactcc cagcgcacgc tcctctgata cggccactgt 420
 tcgcgatctg ataaacacat tcttagtgat acttggcagc gatcaagtcc atactgcggc 480
 atcagagctc ctccgcaatt cactgcagtt tgttcgattg ctggacactc acaaagtggc 540
 ctacacatctt gcgcccaact tctttctaac caaggtgctt gacagcttga gggaaaaccc 600
 aacgttcacg gcagacctgt cgagccttaa ggctctgatt tccggcgggg agtctaattg 660
 ggttgtgacc tgcgacaagc tcacgaggga acttcgccgt cgaggtgtcc aagccgaagt 720
 gattcgctcc ggcttcggga tgaccgagac atgtgcagga tccatctact ctcgggcttg 780
 cccatcgat gatatcaggc agtcccttga atttgcgagt cttgggtcct gcatccccgg 840
 catgcacatg cgtattatga gcatcacaga gcccggaag ctagctgcac ccggcgagtc 900
 tggagagctc caagtgcag gtccggtcgt atttgaccac tactacaacg atgagacggc 960
 gaccagaaac gccttcacgc cggatggctg gttcataact ggggatttgg gctggatcga 1020
 cgatgccggc aacttgaacc tggctggctg gaccaaagac accatcatcg tcaatgggtg 1080
 caaatggagc tcgaccgagc tagaagcggc tattgaggag gaagcggttt ctggcctggt 1140
 gcgttcgttc acagtagttg tgccgaccgc cctcctggc tcggccactg aggaaattgc 1200

tgctgtctac tcgccggcgt acgccccga ggactatcac gcgagatatg agaccgcgca 1260
 ggtcatttcc aagacagtct cactgctgac aggacaaaag cctgcgcgcc ttatccccct 1320
 gcctcagtca cttctggaga agtcgtcgct tggtaaaata tcgcacagca aggtgcggtgc 1380
 tgcactcgag agcggcgagt acgcgtcgat tgagcgcgca gaccagttga ttctggcgca 1440
 ataccgccag ttcaagtggc gccctgcaaa gtctgacagt gaaagagctg tgcagaaagc 1500
 cttggttgag tttctgcaag tgccctgctga ggggattaat atggatgatt ctattttacga 1560
 cttgggtgtg agctcgttga atctgatatt gctgaggctc acgcttcaga ggatgctaga 1620
 cccaagatc gatatcccat tgtctatcat attgaataag tgagatccca cattcccttc 1680
 aaagaccaa tacaactgt tcgttaatgg ctccgcagtc cgacccttg agcaatcgca 1740
 aggtcgattg actcatcccg ctctagttaa gctggataca atgcgatcgt gccactgcag 1800
 caacacagac acggtggtac accgttgttc tgcattccacc ctggaagcgg cgaagtcttg 1860
 gtattcgttg cccttctgct acacttcccg acgcggcccg tgtacgcgct gcgtactcga 1920
 ggttatggct caaacgagca attattcggc tccatcgagg aaactgtgga gacgtatgca 1980
 acacagattc gccaagttca gccgcattgg ccgtatgcaa tcgcagggtta ctcttggga 2040
 tccacactgg cctttgaagt agccaaagt ctggaagcgc agggagagga ggtaaatttc 2100
 tggcgagcat tgactatccg ccgcattattg ccactacgt gcgcgacttg aattggaccg 2160
 acgtgctgct acatattgcc ttctttcttg agcttattga ccagaagacc attggtcgag 2220
 tcacaacctt acctgaacac gcttagaccg acagactgta ctgacaccaa atcttgaata 2280
 taggcgaatg ctaaccgggc agagccctat ccattgacac cagcatctgg ggttattagc 2340
 aaattccgtg actttcgcgt aacattaaga cgtatatctc tagggaaagg gagtatctgt 2400
 tctttttagg agatcctact cctatcagac ctgtactatg tattgaagag acagtttgct 2460
 ctggcccatt ttctgaaaat tttatttatg atgtcctatc taaccaaatt ctacagttcc 2520
 attttctctt cccaagttaa gctcaaagtc cagggtttaa attttctctt tatcatctct 2580
 tttaaatttc ttctcttaa ttcttatctt cttcttatct cttcatctta tttctatttt 2640
 tctccctcct ctcttactta tcattcttta t 2671

<210> 1828
 <211> 2635
 <212> DNA

<213> Aspergillus nidulans

<400> 1828

cgtaacactt cctacgaaat gaccttcaga tctgcatacc caaagataaa tttgctcttc 60
gccagccatg aggataaggc tgccatcgcg agagcagtag ccgagcacga tctggctcctt 120
cacttcgctc tgagcgcaga ccatctccct tcagctgagg caatcgtctc cgggttgga 180
gcacgaggag gaggaattta cattcatacg agcggaacgg atgtccttct tgatccgcac 240
gagaacagca ctcgagcggc gagggaaatgt gtgttaagac ttttgatgac tgggagggt 300
ttggggagct tgtgtctttg cctgggtatgt cacttcggct accctacctt catccttcca 360
cgggtgtgaac ggattaaccg gtaaattaga tgctgcccc caccgcaacg tggacaaatt 420
tgtcctgtca tctggctcag acaccctcaa gaccgcaatc atatgcccct cactgtata 480
cggcgcaggc cggggcttga tctcgcagcg ctgagaccag attccaaacc tagcgaaact 540
tattcttcaa caaaaaagg gcctgcaact gtccgacggt aagacattgt ggaactgtgt 600
gcatgtctac gatctctcgc gattgtatgt gcggttcac gagcagtcga tttccagcgg 660
ggaattgacc tggaatgagg aaggctacta cctcgtcgaa agcgggacgt atttatgggg 720
cgatatatcc agaaggatca caaacgaagc gtacgttctt ggtctcctgc cctcagagca 780
gatgatggtt gtggagatga aagaccgca tctcctagcg cccgctgggc ggctgtggg 840
caattatgcg gtcaaggcaa aggcggttcg ggcgcaaga ttgctaggct ggactcctat 900
cgaggggagc ctagaacaga aaattccagc aattgtactg gccgaagcga agtccctggg 960
cctgtagacc aaggtcgcag gagaggacga ggtcattgta taccagacc cgggtataac 1020
atgcaagtat atatcataac gcatgacctg accacgcaca cgtacccaac cagatacaaa 1080
agaaaatgtg gccgagatta agccctgtgg ctgacagagc cgatttgtcg ccagtatgc 1140
aagccctatg cggatatgac aggtcccagc tctcagaggc agtcactgga caccacaatg 1200
caagtgttga tgggtggcctg aaaattggcg aatgatgcca cgccacacag ccccgttcca 1260
gggttgactt ccctcgtggg tctggggtat tgccgtccaa tcaaagagtg tccccagtt 1320
tgagtttttt tgaggggttg attgtctgat gatcaatata cagaatccac ccagttact 1380
ccgatacccg gactatcgaa ttcaagtcgg agaggcgtct gtcaatttcc aaggaagaat 1440
atgcgccgag gattttgtaa cagtatcgca tgatatgatg gccgacataa tcacccggcc 1500

gtaccctatc ctatcacccg ccaaagcagg gatcacccgc ctagccgtat gcaggctgga 1560
 atctccacca ctgccagcga gtgccagact tggatcaccc cgaccagggc aggggtgcag 1620
 ccacagatta tagctgtcta aaaccgcgga tcaggaacat gtttacttta tttttgtgct 1680
 ctgtcttcca tgggataaca cttctgggaa actgtacaga actccataca tgttcaaatt 1740
 acggctaaag ccagtcacga ggcttttccc cataatgatc gacagcgagg ctttctctta 1800
 ttccgcagcc ccaggggcag ggtccacgcg ctatccggcc aagagccgaa tccgtcaatc 1860
 agcgaccttg cagagacgct aggcacggag tacggatggg tgcgatacta ccgtgatgcg 1920
 gggggagcgc ttggttagga aggtgactcg tgcagctgca gagcagagag gatcctggag 1980
 tgccagcagc ccacttcgct tctgatttgg accgatggat gggcgagtcc aagacagaac 2040
 aaagtgcgat gccgggtata aagagggcag atgcgccagt gtcgccgggt ggaagttaca 2100
 agtagaagga aaggagaaac gaaactagtc aaaatgtcac tcctatcgag ggctatgtta 2160
 cccttacttc aagtttctct gattggcgct ggctcacct ccgcggccac accgtacgcc 2220
 ctgcaacaac ccccttgac aacagattgg acggaagaag tcggcacgaa cccgtggcct 2280
 gagtatactc ggccccagct acagcggccg caatggcaga acttgaacgg ggtctggcag 2340
 tatcgggatg ctagaaatgc ggctgcaatt gattcgccgc cctttgggca gagtcttgat 2400
 acggaggtgt tggtgccatc ttgtttggag agtgggtctt ctggtaagcc tccgcaattg 2460
 cttgatctcc ttcaccaatg caacggggga tgagagggca ctggccatat atattgacga 2520
 tgttgaatag gtctccaagg ccaaagccta ttctactcat ggctttcgac aaactttact 2580
 gtttctgagg actggcaagg caacagtgtc ctcgtaatct ttggacagtg gcaat 2635

<210> 1829
 <211> 3284
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1829

tctctggttg ctgcctagc ttataaatta cttgaaagat gatgagtcag taagaggcta 60
 tcctctcgga tatatggcaa aatagagtaa aataagaaca cttccttttg cagcatttct 120
 ggaaccattc aaaatatatt cttctgccaa actctcttgc acacccttc cggtggctga 180
 gaacatatgc taaagagcca acgttgctgt agcggctgtg gctgagtttc cttagtgtag 240

ttacctaaga ccagtatact tatgtctagt ggaatattat ctcaattaac cactatatat 300
 cttatcaatc aatatctctc taggaaccta ttgcaaattt caggactagc ttcattcattt 360
 cctcgtgcgc atgtgtatta taactgtact tttgtccaca ataagtagct gatatagtag 420
 aagattgagc gtatacaatt atctttacca tagatgagta atatgctcag gacatgcgat 480
 tatgcattgc tggcgcagga gaacgtgttg gtagaagcgt catcatgaat tgccttgcca 540
 gagacataca gaccgagacc gcaactgtagt agacaatctg tcagcaactg caagtgggtat 600
 atttgcgatg acattggtaa ggccactcac catgcacccg ccaacaagaa caatcagcac 660
 gtttatgata gcgaggcaga tttttctggg cgacgagaac cacttcccggt agttaatgtg 720
 cagccagtat acaccaccaa gtccgtaact aaaccaactg gcaaaaaggg agctctgcga 780
 tggaaggaca gaaagcatta gttacgagga atcatataat ttggctgata cgcagctgta 840
 gcaagactta cgataagact gagcaggctg ctgaagaccg ggatcgcgtc cgcaataatc 900
 caggcaatga tccagcaggt caagccgatg gcaatccaag agccaacaga cagcaaatcc 960
 cggcgatgca tgcggtctgt tccgcgaaag agacggacgt agatgtactt gaggccaatg 1020
 tggccgttga ccacgccagc gccacaatc tgagattgtt agttgcaaata agaataagga 1080
 agaaataatc tagtggggag agcgttaaac gtaccgtggg gatggcaata ccgtacgcta 1140
 cttttttcag cacggggcct gcagagccca gcgcaggcga atcgacggtc tggccggcat 1200
 agtagtagat tacgacggcg gcaatgacgt aaaagatgat ctcaaagtgc tgcagcatgt 1260
 acagagcctt gggaaagtcc ctgggctccc tcatttcagc cagaagacca aagaacgccca 1320
 cgtgcgcgca gtaggcgaac acgatattgg tcacggcggt aaaggcatgg aaaaggctcgg 1380
 tgtcgacggt gccctttagg gtagtagacg cgcggccttg gactccaacg ccaaccatgg 1440
 tgattatgac agcagtaaag atactggcaa aggtgaacc cgtcaagggt gagcaatcag 1500
 tattttatc gctccggaga gaggaacaga tgcacgtaca catgcaggag atataggtca 1560
 tattcttcat ggtacgggga agcgagccga gcatgcagac gacgaatcca acagtcgtga 1620
 agaccatagt gcagggtgcca tgctcagtaa tagtgttcat catgacgctg aaggtcaaga 1680
 tgtgacttcc catgatgaag atagagaaga ggagctggcc aatgccgaag agtcccgtc 1740
 cgaatgcacc gagcaagaca tcaccagcgt cagccagatt ctggacgtgg ggatagcgtt 1800
 ggtggaactg tccaataaca tagcctgtgt aagtagcgag gagaccaggt ccaataatca 1860

ggacaagagc gctaggatga accgttagct cgcgtgatca gtatcagtcc agcgacgtct 1920
 atggacgtct ctccagcaca ctcacggagc aagccccagc tgggcaagag tgcgtggcaa 1980
 tgacagaaca ccgagcgata ctgattcagc aatcataact agggttgccca ggattagata 2040
 ttgctccgcc cgctatgtgc ataaaagatg ccgtaaaact cacacattcc agtttgcctg 2100
 caatcggggc atacttgtaa gacaaacgct ttcggcctat ctgaagctct agacttacca 2160
 ccactccatg gttttgtact tgacttctgc gttggactca tctccaaatg cgtccacgta 2220
 acgcggcatc tgggccttct cgtcctcgtc cctccatcct ggctctgcgt ccactggacc 2280
 gggggcggtg ctgactttgt cagggtcat ttttctgggt ctgagtgagt atcgacgaag 2340
 tcttctgggc caaaattctc ttgtatggcg atggtaaaac tcttaatagc cgcaccaacc 2400
 ccggaactcg gccagattac aaaacgcgcc ccgcgtgaga cagcttatca acgcaacaat 2460
 gcaagataat gtaataatta atggtaaaaa aagttgcaga aaattcaagc cttcttgtgt 2520
 gtagttaagc atctccaat gagaagcttg gcctggggat ctattagata accattagtt 2580
 aacggaaatc gagctccacc ccgactgtag ccgcaataat gactaacgct atggtcgtgc 2640
 ctgcataaat gcgcttaacc agggatatctg tgagcattag agggcatgca cctgcgagac 2700
 acgaaaaatc taaaacccta gcgtccaaca agccgtcaag tttggttggg gcagccttga 2760
 gtggtccgca aagccaccaa gagccagcac taggatatct cccgttgatc agaaagacgc 2820
 gcacgaattg tgtaaataca gagtccttg atctgcggtc tcatggctaa gtctggaaat 2880
 ttgagctgaa cccaagaatg ctaaggcatt gagttcacga ctctggtaag agatagcgt 2940
 gtcgctgccca gaaggcgata cgcaatctac catcgtttat tccatgcatg agagatcgaa 3000
 ctcgtgcaat ttgttcaggc agacaaaggc atagctctc catgtccata ataagaggta 3060
 gcaaaaggag gccctaatat caggtagaat ccaccaagaa attcaggatc agcaaatgct 3120
 gctcgaaaag ggcggtaggc agtgcacaa gtaccactt tagatatcaa atggctgctc 3180
 gcgaacttta ttctcgaagg agcctagacg atgctgtcag tttctggttt accagatggt 3240
 ccaagattat cgtgcgttat ggagagacgc tttctcagc gtgg 3284

<210> 1830
 <211> 2089
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1830

taactatcac cctagacagg atggcttcta atccactaat attgttttct ttcgtctacc 60
ggacttaggg attcggggct cgagttctag taccctgact tcttcccaa gaaaagctgc 120
agctactgta gatcagagcg gtgattcagc taaatctact cggggatgct gagttagaca 180
tacatcattc atagcagact ggactaattc aacaaaccag ggagacaaaa cataaacaaa 240
cgagacacag atcaatttag taaagtatgc aaactcaaag agaccccgct tccccatat 300
aaggaaaacg aataatctcc cctttcattg tcattgcctc caagtaccct gtgataagtg 360
gatcgatacc agcttgcaat gcgcgctcag tccactcggc catggaaacc tccttgaagg 420
ggcacgcgaa caatgtctcc attcggccct tgaagtcctt cattgagacc ttgtgcccgc 480
tggagtgggtg cctgactcgt gcggcagact tgctctccct tgattcagca gacagagcgt 540
ctgcggcgat cgtcgcagct accctgtgta catcctcgaa atcaagatac ccttcgaagt 600
tttcaaacg cggaacacag cgtgtgagct tggagtactt cagaagagcg ttcaggggcat 660
cctcgtttgg cgcttctca ccgaacactg cacacggacg atggattgta acagggagtc 720
cggatgcaag gttggcgact gattcaagga gccgttact ggccatttg ctggcggtaa 780
acccctcaga gccatctgta ttgggtaggg aggacgaaac tgaggctgga gggagactag 840
tgctgccgga gagcaaggtc acgcggttgg acgagatgaa atggatggga attctacaca 900
aaagagcgat ggccgccaag aactttgttg agtcgacgtt tgaagcgcgc agcgaagagt 960
agttgttcag gcagtgtcct gtgctgccgg cgtggatgat gacgtctagg gacgattgaa 1020
gaactgctat ttcggtcttg gtcaaccca gacttggcgt gaggagacta ccggtgtaaa 1080
tgctgatctt ttctgacgt gggaggcgag gtatgtcctc ggcaggaaca gctacgcaat 1140
gcactcgttc gactagtggg ttgtggagga gggactgaag gatgtttttg ccgagaaaac 1200
tggtagatcc ggtaagcaag atatcctgac ggtcatgggc cttcgtttga cgtgttgaga 1260
attggttctt ggcggcataa atgaggtctt gtgtcagggc tgtctcagaa tccaattga 1320
tactgttgc atgggacgt tgatgatctt cctttcggcg actgattcgc cgcgccattt 1380
ggccgagagt cggaactgg tagagctctg caacggggat agaaacgcca atggattcct 1440
tgatagctcc ctggagtctg accagtaaca tggagttcc acctcgcata aaaaaatccg 1500
aatcagcgtc tagtcgtgac gggccaccgg aggccgggag caccttctcc catagcagac 1560

gtagctcgcc ttctgcgagg ctgagatgtc ttgcagtatc ggtgcctgta cccgccgcgc 1620
 tctcagtgcg ctgagttggc agaggcaggg ccatgatagc cttcctatca actttcctgt 1680
 tggcgttgat tggcaggcgg tccagggaaa cgactacgga tgggagcatg tactgtggca 1740
 ggggaaggtc tctagcgagc tgctgaagtc ttgagttgtc gacgttgtct ccaagaggga 1800
 cgacgtgagc gacgagcaat ggccaacccg aaccgaacc agaataaaca gttacgacgg 1860
 cttcggacac cagatcattc ccagtgggtga gtatgctgtt ggcaatctca tcgagctcaa 1920
 tccgcaaacc atttagtttg acctgattgt cgccgtccat gcggcccata aaaatcagcg 1980
 tgccatcctc cgtgagacaa cccatatctc cggaataatgt acatcttcgt ccaaccgcgg 2040
 gtaatgtcct ctgggctagc gaagggatcc cgaacgaata tcgtgtcgg 2089

<210> 1831
 <211> 2050
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1831

aggatcacct accccacgcc gagcgcgtag ccatctggta tttatgagct tactcacatc 60
 gagtggctgc aggggatgtt taaaattagt cggacatgaa gcgccattca atttaggagt 120
 aaggagtaca ttaaattgtat ttaagagtag ctatgctcgg taaaaacctt gcgtgtctat 180
 ttactgttca ctcttctcac atcaatctca taccgcctct gatttacaaa atcctagtat 240
 ggcgcctgaa tatctggatc acaggtgaga agcaagaatc ctgtcgcact agctgatgct 300
 gacctaggta gaacactctc tggcgggtatt gtgaatctca ccgtagggcc ctcggagacc 360
 ccgtttgatg tccatatega gctactgtgc gaccgatcac cgtactttga caatctacta 420
 gagaatcggg ataccgaaat atcccttcaa gagctcgtgt tccccgatga cgtccccgaa 480
 gtctttgccg acttcatctc ctgggtatac tgccgggaaaa tcagcgggtgc taggattgca 540
 agaaaattgt ctcggtcact gcatttattc cagctatgga cacttgca gaattccaa 600
 gtacctgaac ttcaagatat agcctttgca atttgcaaag agctcttaga cgccgagcct 660
 gctaagggtg taggctccga ggccgttcaa catgcttact cgcattccag tccaggctct 720
 agtatccgcc aacttgcatg ggatatgtgg gcagcgaggg catcggattt caaaatcctg 780
 cgatcccggg tgaacttgcc ttcagaattt atagcagatc tgaacgccac ccggcttaga 840

actcagaagt tgttcgcgtt tgagggtatac atgctccatc ctgtcaccaa ccatgatgac 900
 cgtctatgta cgtttgtcac taacctgaac tacgcaaagg ctgaaaagga taccctcgat 960
 actccttttt cagttgcacc aatttccaag cagtccgaac ctacaatttc agatgattca 1020
 ccgcgtcgcg cgtcagcggc gcaactcgcc cataacaaag ataaagccct ttcttcttgg 1080
 cggcgagatc ctgatcagat atcccgactg ccgcgcgagg tcctgatttt tacgactccg 1140
 gtatcccgag cccttgcacc gtcagcatca agactaccaa gatctggccg acgtaaagtc 1200
 cgagttaagc tgccaccgtc aacagaccgc tcatatacca agttctcgac gaagtcaatt 1260
 ttgggcgaac tatacaggat cgaaaataat ggtgaaaagg tgtaagcagt cagagttgat 1320
 ggtcttttcc tggaagagag cgggtaatga acattttata gctgaatgag aaataacagt 1380
 cgttcatggt atagcactta gctcaaggaa agtgaggcag attagtcggt aacgagttgc 1440
 ttgctttgcc tatacaccca gctaacccta cttcacgtgt agccgtgcgc tataaatacc 1500
 ctatttaaca tcccttgga tagtgctttg ggtatcggtt tattaatata acccaaggat 1560
 gtagatctac tcttgatata agctatcacg gggcttcgcg tcttgctgcg ttctgcggtc 1620
 cctcttttct tcttaggcgc tgttgatggt tgcgacgtag caactattca tgggatcgtc 1680
 tgtatagaaa atgtgccgga cttgccccaa ttagagcaag aaaagaccgc caaggcaagt 1740
 gataccttgc gaatttaact tcttcagtca aatctgaaag atatttcaag ggtcttggtg 1800
 atatatcgca atgtttgctg gaggcgcggc tacacggacc caacagacaa gtagccatga 1860
 cgccaggaga taatttacag ctctgaggtc ttggttctta agataggtaa tgttcctgcc 1920
 tcatagggac gaatgaaggt gacacatact tcgtagctga cgagatgcgg tggaccgttg 1980
 ccgtctagcc cgttcatatc ttgaggatat ccaaactaga cagtaccgat gtagtaccgt 2040
 cagagcttat 2050

<210> 1832
 <211> 1581
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1832

aatacacct gagcaatgcc cgaagtaaga gaaaagcaac agatgaacaa cccatgcata 60
 taaagacgag ccaatttctc tgaaacatcg tttaaagtaa aaagagaaga aaagaagaaa 120

tattcgagaga acaccgacgg acccaagtta aataaaggaa caaaaaaaaaa ttggaaaaaa 180
aaaagaaaag tacagttcag agagaaagag aaaggatgag atacataacc ctgccatgag 240
ctgcacgagc aactgtgac ttcaacaaac aaaaagtga tattagtcaa agcggaactg 300
gaagcgatca ttctgtcga ctgcgcttag tgccgtgtgg attccacgag ccgtcaccta 360
cgccttggtt ctgaggaaag aagccggtat tgaaaccctg gttgggacct tggaagccac 420
ctataactgg gaaaaaatga atggtagat atctaggga aacatatacc ggtagtaggt 480
gtatgtgatg taccttgcag gcccatgttc cctcctatcc cgcccatcat tggattcata 540
cctccagcca tcggattcat gcccatgcca ccattggac ccatgtttgg catacccatc 600
atgttgggtc cgccagccat gccgccgcca cggccacgca ttccgcctgg tccgcgcgc 660
atgtttccgc ccatcatacc gccacggcca ccgaatccgt agttgcccat ggccatttga 720
ttaccctgga acccggcgc gaccataggg ttgttgaaac cgcccatggg gttattgaaa 780
ttgcggttga cgtagccggg catgttcgac atccctccgc gttgttgaa ccctcctcta 840
cctccacgga accctccgc catgttgccc atgccaaaat ttgcgttggt ctggtttgga 900
gaattgaatc ctccggttcg cgcattgtcc ttgcgcatgg gttgtcttt agggagtgt 960
cggaatggat tcggaatggg gctagtatag ttgactagga acttgctcc actctgtcct 1020
gtagtggaaa gggagtcgat gtggtgctta gtggctgttg cggcggggag agatgtgaac 1080
tctaggaatg cctgactgta gagagaacac acatgagtac cggatgtgac atactaaagc 1140
tcgacaactt accctttact ctttccatta accctgtgtt cgctgaaagt tacatctttc 1200
agctcgtcct cgcacccggc ttgcgtgtc cagcctcgga tatcatcatc ttagtccac 1260
cagtgttaact ctgagatgag tagcgcaggc gtcgcgtcag gatcaaccgg gcgttcgtcg 1320
agttccttgc gtttcacacc ctgttgggga gttgtgtctt tctgcatttg ttgattattt 1380
gtgtctgatt gtgttacagg cgcgccattt gttgtgacgt tgggttggtg ctgaatagt 1440
ccggagtctg tggagttgcc actgttttga gcgttatcgg acgcatcgag aatgagatct 1500
gtgtcttcct gttcatgtc atggtcctgt ttgaagtcgc cttgatcatt ggcgtgttac 1560
cactaccatc tccatagatg t 1581

<210> 1833
<211> 2134
<212> DNA

<213> Aspergillus nidulans

<400> 1833

atcgttgggtg tagaagcggtt tcgagatcga tgccccaact ctctcagccg ggggtatacgg 60
ccaccatcag acttgtacga catcgtgcga cgctaagtcc aatttccagc tccagtctcc 120
cggatatcga ttagaacgtg ggcggggata gtgtgaaggt agaatcattc cgtcttgagt 180
tgaatagcta tattatgaag aaactggaaa caattgtcca gtaagcattg tcggcaatgc 240
gagaagaaag gagcacactt agcacctagc aaacatggat atggtgggtg tatctgcaag 300
tatgaaactg gaaaagtgcg gttcgcgcga gcgatgtaga tctaagcttg taaagacgga 360
agaatgcaac cacagacttt gttgagtaga aaaggaaacc agcctctcca acagaacata 420
gatgatgtcg cgggggggga aatgaggcag ctagttagat atgaagctgc agctcgatca 480
tgacaaggca aagcaataag aaataggcga caagggtgtac atgccaagc ggtatagtgc 540
gagatatgca ggcgctccgc cacaggcagg tccgctgtgg ctaagatggc gaaatagatc 600
cgagctgggc ctgcacgacc acgtcagagt cgcatatact ttcaggccac gcctaaattc 660
gaaaaggcat ggggtataccg aggaacttaa gctgtgctg taacaacgca aaataaacga 720
gagtagaaga tgtgagagat gcgattgcgg cagtctgtac ttgcgataga tctggaatct 780
gggccttttt caacgtgaga acgtgcctcg cgctaaattt caaccctgct ggggcctctg 840
ggtctagtgg ggaattcaga tccccattcg caggggagcg atccatctaa agacgaccat 900
gagggatcct ggcgcgatgt gcgagatcga cgccgggtct gcattcgaga ttggtgtgac 960
gaaggcaatc attggtgaac atgctgcacg ttcgtctttg cagtatcaac ttcagctatc 1020
tctcgaaggg taagagggtc aacggcacca ggcgtcgttg gtcgataaaa ctggtgggta 1080
acgggatgaa gacaattcga ccacttttc tcaatatttg caagcgacga caggtacgaa 1140
tctcacatca actcaaaagg acgcggtatg accggcttta aaagcgggtg ggccgtgcga 1200
ggaaggtgac aggttgaagc cggggcgagt ggcggaagat agcgagaga cggcttaagc 1260
agaacgacca taggcaaac agagaacaat atcagaatct ccactagctg atgatcgaga 1320
caaaccgcgt tgatagtttg atgggcagag aaaatatgca gtagcttagg actctccttg 1380
gccagtagtg ttgctggagc agaatggtct gatttgatgt aaagtcggat aatttgcccc 1440
taggctgctg gggagatctt tctggcagta cagtacagtc agcagtcggt caggtgctgg 1500

tcaactgcact tactgggtcac tgaccacggc cgatcactac cggagacacc gaactcgacg 1560
 tacagagtac gtgtgagacg ctacgtaccc caactgactt ttagcaatgc atcaagtcag 1620
 tttcgagttt ctgcgcatcat ttgcgcatatg tcccagttgg ttgcgccgga ttcccaaaat 1680
 aaggcatact tgccccacca ctgcgcaatgc attacgagca gggcgagta ccaactacaa 1740
 gacctcgact ctggacagct aagtgggaatt tctacaccgg cattattgga cactcgagac 1800
 tttcttgcta acaattaacc ttcgttgggt agtgggaatac cctgacgata cacaatagaa 1860
 gcgaggcctg tagaaagttc gctccgagtc cgaacgtttc gttgcacagc caacacaagt 1920
 gaccggctat cgcgagccca gattggggcaa aagaaagttg tcttgtcaca gagaacgtga 1980
 atgctgagaa gtgtggcctc gaccagtgac gggcttgag gcattcccag tattgtgatt 2040
 tcttgaagct gagacctccg cgcagagtta cgtttggaac gggccgtgaa ccaaacagag 2100
 tcgcactctg gttctgaacg gttggcagtt ggat 2134

<210> 1834
 <211> 9968
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1834

atctacagca acaccacgtg agtcgccggc cattggtgct gtgccgcgcg gcagtcgcaa 60
 atgccaatcg taacgtaacg ccaatgccaa cgcatttgcc agcaacagct ccctgtatcg 120
 ctcccagtcg caggccgaca tgacggggct ttccccgagc gtgcgcaaca tgaccacctc 180
 gtcgcagtcg ctgctgggct tgccagcagg aacgagctat ggctcgttct cgggccaatt 240
 ccagcccact agtacgtcaa atctgtgtc caggagttca gactcgtcgc ggcagctgag 300
 gagctcgtat gactctttgc agggagtcca gaggaatatg aatccagtga cgaattaccg 360
 gcatacttca ctgaactcgc aaacgtgtc accgcatgcg caggggctga gtacatctcc 420
 acagcagtcg ttggatcgga tgcagcagct tcagaggcaa tcgccacata cgcagtcgac 480
 ttccgctccg tctaattgct cgcgatgct ctgcgattcc cagaaccagc aatatacgca 540
 gtatcagcaa tottcgccgt atcagacaca gtccggtcaa tatcagcagc cagtgtctca 600
 atatcagcaa ccccaaaaga cgcaaccaac tcagtaccaa cagccgcagc aatatcgaca 660
 gccgcagcag gctcagtata cgcgcgagac gcagagctct ccttacctgc ctacagcga 720

gtaccctcag tatccttcgt cacagcagcc gccatatcag cagctacaga actaccaaca 780
 gcagcagaag tcggcccaag taccacaatc gagccagcag agctatccgc agcaaacgca 840
 aataccgcag acaagccaac aaaactatca acaagcgtcg gctcagcgag caccgcagac 900
 gagcccggt aagcagggat atcagcagaa ctgcagctcg gccagcaag cgccacagct 960
 gagtcaacag agttatgcac cacaagccca gaagtcagcg caaggaccgc aggcgagccc 1020
 ggtgaaacag agttaccagc agccgggcca gaaaccgtca cagcagggcc aacagagcta 1080
 tcagcataca gcgcaaagtt cagctcagca acttcacag tcgagccaac agagctttct 1140
 gcttagttcc gccaggtac cacagtcgag tcaacagaag gggtatcagc aagcgtctac 1200
 tcagcaagta ccgcagtcta gtcagccgag ttatcctcag caagtaaata aaccagcgca 1260
 gctaccacag ttgagccagc aacagagtta cctgccggga ccgactcaag tgtcccaatc 1320
 aagccagcaa aaaagttatc agcaagcagg tcagcaagga ctgcaatcga gccaacagag 1380
 ctatccacag caggcgcaga catctgcca agcgcagtcg agcccgcatg tacaacagta 1440
 tcagcaacat gcgcagaaat cccatcatgt actacatcct caggcgcagc aagtgcagca 1500
 aaatcagaaa gccgctcgac cttctcaacc atctcaggct caggctaagc cttcaccatt 1560
 gcagtcgcag caagctcagc aagtgcagg tcaagctaac cacacttctg catcaaagtc 1620
 ccaccagcg caagcaaadc ctccagctca acgggctgtc caacagggtcc aggcctcagca 1680
 accagctcaa tctcaaaaaga cgtctcagca ggcgagaaat cagcaaacc tgccaaacca 1740
 ggcttaccag caattctatt ctccagcatg gcaacaagct cagcggttcac cgtaccagac 1800
 tcatatgcag aatcctcagt atccgtatac ataccagcct cagtttgctc aacagtacat 1860
 gcaatcgcca caattacgga cttcgcagcg aaccagcag cagtaccagt cacagcagtc 1920
 ccaaaccctt caatctcagt ctccgcagca atcagtcagc cagaaacagc caacaacca 1980
 attgcagcag gagcagcaac cgcggtcaca agcacaagcg caacctcaga aaccgcctgc 2040
 acagaccaat caattagctt caaacctcc cgctaaagag ccaaagaaga agaaagctag 2100
 caagaaggag gccaagcaga agcctgctgc gtctcaagct gtatctcaga ctgcgtccca 2160
 acctgcaccg caagccaggg catctcaaac tgctgcgtca caggcgccgc cacaggccaa 2220
 gggctctcaa gtcaccgcgc agtcctcagc ctctcagccg tacgcctccc agacttatgg 2280
 ttcccaagcg ccggcctatc aattccacgc ccaagcatcc caaccatacg caccacaagc 2340

acacactcag caaaatactt ttcaaactac tacctcccaa gcacatgctg ccccaacaaa 2400
 ctctttccaa actaacacgt ctcaatcaca tggccaagct cattctttcc aagttcccgt 2460
 ttcacaaccg catgcctccc agatgaacac ctttcaggcc acgcctcaag caaattccct 2520
 gggagctcaa ggctcccaac ctacgcaa at cccttctcag ccgtcaaccc aaccgaaagt 2580
 tgaatcggtg tctcaacaat ctcaaccgtc tcagcaagtc cagcctacaa ccaacgggaa 2640
 tggacagggt tcgggtacat ttatcacaga aaaccaacg cagaagaaga ccaaacctgg 2700
 agaccccaat cacactccca gaaagcgagg ccgtccgcgg aagcaaccgg gcgaagcaac 2760
 aaagccgcgg aaaccgaaga gaccagaaa tccggatggc actggtgact tatctgcagc 2820
 attgcctcca aatctagctg ccatcccggt ggtgggtatt ccgttttcca tagctccgaa 2880
 tccgcgcgct gctcctccag cttctacggc gtccagcgca ccgcccgggc ctgtaatcgg 2940
 actggatggt aatccgattc cgcagaagcg caagcgtgga cggcctcgta agtctgaggc 3000
 ggacgggacg cctcgtaa ac caccggccacc gcgggatcca aaccggccga aagggaactg 3060
 gcggcctcgt gggcgacccc ggaaggtgga cgtgctggca aggaagaaac tagaagagga 3120
 gcaagcagca gccgcgcgg ccgcgcgtca tgctgcggat caaaatagtc agcctggagc 3180
 cggccaacct gcagccactc aagcgccacc cagtcaagca caacatggcc acatgcaagc 3240
 tgggcacgtc caagtcaaag tcaatcaaac tagtcaggga cagccaagca aaggacaagg 3300
 aaaaatccac cagtggcagg tcaatcaggc caaccagagc cagtcagcc aagcacaagc 3360
 caaccaagcg ccaacgaatc gcgcacaagt caccatcaa actagtcaag ggcaggccac 3420
 acaagggcag gcccaatggc agattagtca agggaaatct ggctcggggc gagagcaagt 3480
 cggtaagga caatttgac aatctgtgca ggcaccgtct ggacagacca atcagtatgc 3540
 gcaagggact caccgggac atgcacacc ttgcgatggc catccatcgc aagcgcccgt 3600
 tcagcctcag tctcaaaatc aggtgccag acctcaaggc cagcagcaaa tgcagcccca 3660
 gcagcacgct cggcacactc acgcgcagca agcgagcca atgcagaatc agttgcgggg 3720
 gagcccatg caaagcatgc aagctagccc gatgcaatcc atgcaggcga gtccgctgca 3780
 gaaccagata ggccagagac aacctgtgca gcggcctcct gtgcagacat cgagtcaacg 3840
 acctcagtcg cacttgcaag ctcaggtgaa cgccaaaccg cagatgcagg tccagccaca 3900
 aaaagcgag cctcagatgc agaaccacat gcaggccaaa ccggttgtgc acgctcagac 3960

gaccaagact caggggcaga cccagcaggt acagcaggca cagcaagccc aggttcaaca 4020
 agcgccagcc cagggtcage cgcagaaggc tcaggttcag cagctggctc agccattgca 4080
 gatgcagcga caggcgccgt cgccgatgca gacaccggcg cagcggcccc atcaaccgca 4140
 cctcttgggg catggccagt cgcagttgca tcacgcgcag gcacagcagg ggcagatcca 4200
 ggggcaagcc cagactcggg ctccgacttc gcaagctcag gcgcagacgc acaatctcgg 4260
 caaggcacac cctcacgctc aaccaactca acaagctcat tcacgtatc ccaactactc 4320
 taccactcc tctactcta cccactctc tactccgc caatccgccc aatccgcatc 4380
 gtaccgcac tcgcaccgt accaaccaca attccaggag cagataccgc agctgcacat 4440
 gcactcgcag ctccaccacc tcaaccagca acatcctgtc tactcacaat tctcgcaaag 4500
 acaacagcag ccatcgatga cgctcaaccc gcagaccggg cagaagcggc cgtcctcggg 4560
 gctggacgac gatccccgga aacgcgcgta tatcatgcc catcagctct agcagtcctt 4620
 tgtttgggtg tctgagatac catggcgcaa ctctctctga ttacggtctt ttccttggtg 4680
 cttggttggt ttgcttgctt ctagccggat cttggttggt aatgccta atctgggcttc 4740
 attttctctg ttcggttgct aggtcaggtc ttgcatttct atttatttac ataataatta 4800
 gcgctagcat tgacatatat aatcaacgct caataccag tggccgtgaa aaggcccagc 4860
 tgcaacgttc tctgttcta gtcgtcgtag tagcagtgcc aaccgctcta aaccattcac 4920
 acccttcttc cctctcatc tttccagctc caatccctaa tttgggtccc tttccatcgc 4980
 cattcctacc acactctcta tatccctca gacgcccct taccacttg ccaacctcat 5040
 caagtaagcc cagatcaaca cccgttctca cccgttctc ctcaaacatc ttcaccaaac 5100
 tcaccgtatc cacattcccc ctgcccccg gcgcaaacgg gcaccctccc agtcagcaa 5160
 cactcccgtc aaagaccctg accccaactt catacgccgc ccacacattc tccagtcccc 5220
 taccocgggt atcgtggaaa tggcacgcca acctgtccac gggaactccg ttctcaagaa 5280
 gatacctcag taacgaggaa gtgagaccgg gggacccga tccatctgtg tcaactcaacg 5340
 caatttcate agccccagac tcaagtaaga atctcgtaca gtgcagcaca gcagacggat 5400
 ccgttggttc acgctgatt gggtcagtga agatacacga tatatacccg cggactcgcg 5460
 ggattccggc tttttttgca gcgaccgtca cctcggggc tcgaagaagc ccgtcgtcaa 5520
 cagagcaatt gatgttgca tggctgaagg gcgcggtggc ggagatgaag acgcatatgg 5580

atcttatggg tggccggggt gagtgcgaga gcaggaggga tagccctttg aggttgggca 5640
ggaggatggg aaggcagaag ccctctcgcg gctcaagtgc cagttcaaatt tcagtctcgg 5700
actcgaagct agactcgctt tgctggcttg actctgactc tgactctgag tctgactcag 5760
aagcagaggc tggcccgccg ccccgaggact gtgacagccg cctgacaacc cgatgtccaa 5820
gcacagccct ccaatccgcc aactgcgga ccaccttttg agacacgacc gaggcgatct 5880
cgatcgtctg tagaccggtg cctgctagcc ggcgatcag ggcgaccttg atctcagtgg 5940
ggatgaactc ggggatgttc tgcaggccgt cgcgcgggga gacttcgacg atatggacct 6000
gcggttcaat ttctatctca tctcattttt tatgctcatt ttcattctca ttttccttcc 6060
gaagcccagt ctctggctct ggcttgagct catggtagag gcgcataatg acttcgtaca 6120
atagagtggg atagccaggt tagcgggtga gcgggttagg gttagatacg atatatgtag 6180
ataatcagag gatactctgc ccctcagctc aagtcagagc tcaagtcagt aagcttacag 6240
tataatatag tacaattaga tctgatcgaa gtagcaaaga taagaggata agagggaaaa 6300
tagcccgcg gataatagtc cgcagtcagt ctgaatcggg ccgaggctga gcagtgcgg 6360
cgatgacgac atgtatggaa tgtatggagc gtatggagtg taagggtcat ggaaagcgcg 6420
agttcgagaa gccgggagaa gaacctctgc cggatcata cgtcgacgcg gattgtcctg 6480
gctatgacgg gcagtgcgag tgaccagct ggctgcttaa agattggctg ccacattggc 6540
tgccactgcc atggtactgt accggtacgg tattgttacc gttacaattg taccacacc 6600
gtatccatat cgtatggata ccatacgccg gttgtatgcg gaccgtattc gtctgtccgt 6660
ttttcgtacc taccgtacct cccgtgtcta ccttcgtat cttcatacct cccgtaaaaa 6720
tgcccgatct gtttgtctga cgtgagagtg aggtgcact aactacgct gcaactgggg 6780
ttgggctggc cggagaataa atacagcaat acagaagata taaaagaag gatcgaagaa 6840
ggacatactc tggcctgtat tattgtccta aaaacgctca ttgatcaatt gagcgcccg 6900
tgcctgtaaa actggagcaa ccctgagaaa gtagggcttg ctagggtgc gggggagccc 6960
gttccccagc agccggttcg tctagagag gtttgagcac tcccttcag aggtaatcga 7020
ggtcagcaat tccgtcaatc aggtgcagat gcaggagaca gcaaatcaag gtcgctgcat 7080
tagatgagct agatgagtgt gcattgtctt gtgctgtctt gtgctcgga gggtcggaac 7140
tccgcacttc accatgacgg aacgccttct ctttcgagtt aatctcttaa tctatttctc 7200

cctaaaccta ggcacccaag cacgctttga gctgacttgg cctggttatca agctggactc 7260
cccaaccgat tccccgcttg cttggctgtg gggactgcag ctgacgagcc atgcaggctt 7320
ctgcgactgt tggtattatt atgactatga ttattattat ttaaacaatcg gcaatcccc 7380
cagttctctc caccctgttg cctacccaaa cgagtcctct gactagagat atctctagat 7440
atccaagcct tcagagacca tgcacggcct tgtcgcgcgc ctgctctgcg ggctggctgt 7500
cgcagcgcgc agctgcccag cgcgcgcacc atcgtctggc acgtcgaaa cgctcaagta 7560
caactacctg agcgcgccaga acaacggcac atcggcggtg ctggctccacg accagctcag 7620
caacgctgct gccagactc gctgcgctgc cattggggag tcgctctacc ccttcgcgtc 7680
tgcccccgc gccaacgcga ctgagctggc gcatcagttt gactacctgg tctatgccc 7740
ggacctgcgc cgcgaccaag acgtctgggt ggccggcgca gatgcaggaa aaggaggaaa 7800
aggaggagac tgccaggcgt attcgcccag ccagagagag gtcgtgtctg tcccctgcga 7860
ccgccgactg ccggcgctgt gcaactgcaa tgtgccccg actcgggata tcgaccggac 7920
tgtcgtgccc tcgtccaagg tcacogtttc gaccgcgggt tacacactga ccggcatacc 7980
gcgatgcgcg gtccttcggg ttcctcggca tcccgctcgc cgacccccct gttgggtgagc 8040
tgcgctcttg gcctccgcgg gactactctg gccctaaacg catcgacgcc accagactcg 8100
gcgcctcatg tatccagtcg gtctctggct ttgcgcgtcg cgcgacatct ccgaggactg 8160
cctgtacttg aacgtcttca cgccaatcgt gcccgagcgg ccggcatag tgcgcaagcc 8220
cgtcgcggtc tacttctacg gtggcgccct caccagcggg accgcgtcga tcatcgacta 8280
cgacggcggc aatttcgcca gtcgcaacga tctcgtcgtc gtcaccgtca attaccgtct 8340
cggcgcgctc ggctggctag ccacgggtaa cctgaccacc ggcagctacg gcacccgaga 8400
ccagatcctc gccctccgct gggcgcaggc gaatatcgca gcttttggcg gcgacccag 8460
ccacgtcacc atctttggcc agtcggctgg cggccagagc gtcgtcgcgc tgcctcctc 8520
gaccgcgcgc cgcggctctt tctccggcgc cctcatccag tccgctcctg tcgaccttcc 8580
ctggtacacc cggcaagtct acagtgaatt ggtcgtcccc cacgtcgcgc aagctgtggg 8640
ctgcggtaac gcgacgactg agtccgagtc tgcgtgctc cgctgcttgc gcagtctgcc 8700
ggcgacatcc ttcctcgaca actcgacggc ctttgaagcc gccacatcgg caatcgcaac 8760
cgacgtcgc gactcctacc tgcattgtct gcagctcctc gctcgtattg aaccctttat 8820

gcccatggtc gacgactccg actcggcttc gggcgtcatc gacaaccaat tccaccgctt 8880
 ggtctcggaa aacactctcc ccaaccgcgt cccgaccttc ttcacgacga cgccggacga 8940
 agcagccctg tacgtgaacc ggctgggtgcc cgaactcgga tcggcgcaat cgggcctcaa 9000
 caccctgctc ggtcttgctt acccgceccc cctcgctctc gcgctcatca atgcaaccgc 9060
 attccctaca gacacaaagc agccagattc tgtccgtatc gagggcgctt ccgctcttac 9120
 ccacagtga tggctcgtgtc ctctcgcgca cctcctccgg gtcgccgtcc cgggcacatt 9180
 tccgaccctg tacagcgcac agatcactga cgggcatgcy cagagcaacg gctcgacacc 9240
 ggatatttgc aagccgaacg ccatctacaa tgcgacctgc cactcaaacy atgttctgcc 9300
 ggcgtgggga acgctgaatt ccaagacgat tgacgtactg ccgtactacg ggctcgtga 9360
 cctgaaacac agtcagtttt tgaatgatat ctttggttcc tttttcaggt catatgaccc 9420
 gaatccggat cttgatatgc tccgtctgcy cgggagcgcy tatgaacata ccctcaatgt 9480
 attcggagcc gggatacaaga tcgatgagta tactcctgcc gaaaagaccg tgcctttgct 9540
 gggacgcctt cctggccgga cggccaatcc gggggttacg gagcagtgtg acgttttcga 9600
 ggcgtatggg tatacctttg agaacgcctt ctttacggag gcttgattca ctgaagaggg 9660
 aggttggttt ggtgttttag agtcgtaggg ggctggatat aatgaagtca tggatatatac 9720
 atatacggtc tgcgttagta gatatccaat aatgcataaa gagattaatt gataccactc 9780
 cgtgcaaagt gtgcaggaat ataggaccat attctgtata tttgttcata atctagcaga 9840
 atccatgttg agagtcaggg tcgttatcag tacctttgct gacttgatag ggaggagtac 9900
 aaagttttct tgtaggtccc agccagactt cgccatctca acaaggggat atttgcgcca 9960
 cttcaccc 9968

<210> 1835
 <211> 2092
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1835

ttaatcagtc tgggtgtcagt ggtaacaccg gtagctttct gattggcggc ctattacggc 60
 ccaggaacga actatacaga aaggttcacg aatttacgat ctagccaagt aattgggtga 120
 tgttgatgtg actagaaatt cagatccagg gaaccgagtc ggagcgttgg aaaacaacga 180

cgctgcgcg atatacaagg tatgtaaata cttacacact ttgtgcggtta gactatattc 240
 tagcacatcc atatttcggt taaatgctaa ccggcaaatg acccatacca agaaacaatg 300
 ctgcgaaatc aggtaccttc tatctagccg agccgtccgg ccagcggtttt gaatattgat 360
 ggatttgtcc agatgctcgg ttttgtcatc ttggggaacc cggaggacgc tgctccgcca 420
 aggccaagt atcataccgt accggccccc agcaatgctg ttgcccctcg tgacagtga 480
 gatttttggc ggataaacca ctgcatctgg gctaaactga aagttgggag agacggaaaa 540
 agcaatcagc tgcggctatt gatgttggat gaaggggtcg aaggctctag taaggctttt 600
 ggggtgctct agatggacat tttccgcggc ccgcggggca gctattccag ttaaaatgtt 660
 atctttggag cggagatgcg cctcgtgaa gcatgtgctt ggtcattgtc tatggtaatt 720
 gttgatctga aggtgtaggt tgagatagtg gctttgcttt tcgtacattc accgtatatt 780
 acctccggcg gggtagctgt accctgtgca gcgatgtccc agaataacgc ccgccttaga 840
 gtagccgctg gtcattattg caccgaaatg gattaattgc taagccttac tcaggctgac 900
 tacggcttcc gctgaccaac aggacacaaa ggtcaggatc atctgttgag tgagtgtctc 960
 ctgttggtga ccggtgaaga ttgaacagca ccagttccag aagtgtccca ccgcgacatc 1020
 accgtcccca cctgccgttt cgatgtcttc gagttcaacc cctccatcct ttttctgtac 1080
 agttccccc cccgtcttct ctttccatcc ttctcttctc ctctccctt ctttttccat 1140
 tgccctgctc ttgctccaat cccccctttt atttatatac ccagacaagg caggtttgat 1200
 tactagacag tacggtgttc taccatccg gcaactctga aagctctctg accgcggctt 1260
 tccccctca acagataccg caatcatggg ttacaccgag cttgatcaat tggccatcaa 1320
 caccatccgg cttcttgagg tatgcctctt cctgaactcc ctcttctttt agttctgtgt 1380
 tttgtggtgc tcttcgtaat caccacgcgc cccctggagt ttgcgagaa tgaggtcacg 1440
 gaattgggag tcagacgctg ccgccgataa actcaatcca ttgagccctc atcgcgttat 1500
 tgtttgata ctgttcgctg cgattactcc gctccgggga ccgagttgca cagtgtcatt 1560
 gataaaaagc gttggaatga cgttatacta acagcattcc aggttgatgc caccgcaaag 1620
 gcgaactccg gtcaccccg tgcccctatg ggcatggccc cgggtggcca cgttctcttc 1680
 aacaagttca tgaagttcaa cccaagaac cccgaatggg ctaaccgtga ccgatttgtc 1740
 ctctcgatg aagcccattt ctcttgcgag tacgatcttc gctaactgc tcgctatagc 1800

aacggccacg gctgcatgct ccaatatgct ctctccacc ttttcggata cggcattctcc 1860
atggatgacc tcaaggcggtt ccgtgtaagc aacaactcta ttcgttctca tactgatcat 1920
tcaggccggtt agttaattta tcaattctta tagcaactcg acagcattac tcttggtcac 1980
ccttgagggtt acaacacaac ccgtattgag gtgaccactt gttccccctcg ggcagggggtt 2040
atcccaacgc tgttgggtctt gccttttgcc caagctaaca gtgggtgtgt ct 2092

<210> 1836
<211> 2523
<212> DNA
<213> *Aspergillus nidulans*

<400> 1836

cgcattcaga agtgcacga gacttttggc cgacacaaca ccgacaagac gttgcccccg 60
aagcctgcgg ctgtcccgcc agaggagcg accgttcac tgcaaaagac tccccgagtc 120
ggccccgaca ccggctctcc cgaagtgcag gtcgcaatcc ttaccgcaa gattctgaat 180
ttgtctagac acttggaac tactaacaaa gacaagcaca acaagcgcaa cttacggctt 240
ctcggtcaca agcgacagaa gctactccga tatttgcgaa agaaggaaaag ggggtggcca 300
aggtggaaga atcttatgga tacgctcggg ttgtcagacg cttcgtggaa aggcgagatt 360
agcatgtaat ggttcaagcg tttgtacatt agttgtttct gaatctctct ccaacaaagc 420
gttggttgtt aactttacga tatttgacct ctggcgtgtt aggtctttcg acgtgcttc 480
tccgtctttc ttgtatagat acaatttcaa tcaactgccg tcaactgagg tatgttacgt 540
gtttcttggg gaagctacgt ggccagcaat atagacttcg aaggatattc tgtagctagc 600
tgagtctgag gtgctgcttc atctaagttt atcgctctca ccctaaatcc atgccaggca 660
gttaaagcta attttgacct gcaccgaaca atactgttcc agcctcgtct tccaatgcag 720
gcagttggct agggcgatg agcgcttaca gaactacaa cctcctgata tgaatcatat 780
ctaggttcat tccctaataa caagacagg caagaaagct acgtctatct ctttctacac 840
gtaaactgag ccaattgggt tgctgccagc ctatcgcccc gtcttattcg tatgctgcca 900
tgagtggacc tccgtataat tcactctcag agccagcaat acgtctgatt tctcttgggt 960
agcccacaat ggtgatgtta gctgaaccgc aacgttcaaa atgagaagtt aggaacaaga 1020
gtgatcgact aatgctgtga ctggacactg atggaggggc tctccaggaa tctaaacccg 1080

gcttaatcga tgagcatcct tatttcaa at taacacataa gatgatgata aggtcctttt 1140
 ccttacggac gaactacttt gactgacag cctatgaatc taccgaatgt tttatgaagg 1200
 gtggagccgg ggccaaaaca gatcataaag tgcagtactg accgctttct gggtttgggt 1260
 tctgccggca tgtaacttgt tcttggcacc tccttccccca agttaatttt ccctcacaac 1320
 ttaatttccg caacctcatc tcactctgctt tctaactctt caacatctca tcctaccgaa 1380
 ggtgagtaaa cttttgctag caccagcagt ctatgtcgca accatagaag attgtatcag 1440
 gacctttgag gagtctttgt gtcctaaaat tcttctctca ttctatatct tccgcacgcg 1500
 ctccccgatc ttcaggctcc aaatctgcca agcaaatctc tcaatgtaca tttccccttc 1560
 ttagctaaag ctcttgaatc gcaagtcgga cctcgtttta tcacagttac tcttcattga 1620
 ctttctctgt cgcgatattt cacgaagtcc ttgtctaate gcgcaaacac aaatatacag 1680
 tcagaatgcy taccggttct cagccagatt cacctggtgy cttcgctctc ctcgatgaca 1740
 ataaacgcgc tactcgctgt actaccagat caacgaggtc tgcttccaga gctgtttccc 1800
 aggaacctac tttgaacag cctgccgagc ctacaacaca accagcgact cgggtcaaaaa 1860
 cccaggcacg cactaccaag aagaccacta cgaaaaaagc cacctcgact acatcaactg 1920
 caaagcctca aactcgcaaa ggtgcgaggc gtggaacgcy aagtgccact cgaagggcgg 1980
 acacaatgcy accgaagaag tgcaagagag tgttgaaaag aacactcatg aactgtgcy 2040
 aacggataat aaggaaaatg ttgatgtcaa cactggagac cttgagtctc gccacttgc 2100
 gtcggattcg gctttaatgy aacctaaaga ttcagagcgt gaggaccaca cctatcattg 2160
 tttgtcagct ttttatgtca tcgtaaattt ctttcccctc tttttctatc tcccttttac 2220
 tctcaaagga gtcacaggaa tccagagatt cccagtccca aaatgtccga gtgctgcagg 2280
 atgccgaagg accacaggtg tacgcggata tcaagttgac cgtgaaccga tatatgccga 2340
 cttctccgcy ccggtcatca agggtcagat cgatagacca tttggtacct caagcccaa 2400
 gggacttacc ggtcttcgcy aagtacttgy cttaatccca tcccggagg agatgacttt 2460
 gaccatcctg cgagcgccaa tattggacta aacaaatatt gccctctcag gccaccctat 2520
 etc 2523

<210> 1837
 <211> 3464
 <212> DNA

<213> Aspergillus nidulans

<400> 1837

agcgcgcccc aaatcagctg ttctcgcac tgccgggaag tttgaagatc caaaaagtca 60
cattcggaac tcttctctta tatctcacac ctcgctagca ccattcggcc ggaatgcgaa 120
ccgccaaagg tcgaattctc tgagaaacga tgtcacgtcc ggtacatttg cgccggagtt 180
catcaaatca gaggatctcc gccacggcgc tgaccagatt cgtggacaag aaggggacaa 240
tgactttctg ggaaataaat acgtctggtt acgtgatccc gagaaggcct ttgtcaaagg 300
gttagtttta gaagagcaag atggagctcg attactggta cagacggatg atgggcaggt 360
atgagcaacc ggtgctaagg tcatccgcac acttacaatc tgcaagcaac gagaagtgga 420
cgtcgaccaa gttgatagag tcaatccggc aaagttcgac aaggcagatg atatggctga 480
gcttacacat ttgaacgaag cgtccgtggt gcataacctc cactctgat atctggcaga 540
tttgatttat gtaaggcttt atctttcttc cgcttggtgc caaagcctga ttgacaatac 600
gttactagac ctactcaggg ctgtttttgg tgacagtcaa cccttactgt cccctgccta 660
tctattccaa tgagtacatt aatatgtaca agggacaaag tcgcgaggag actcggccgc 720
atattttcgc catggccgat gaagcattta ggaatcttgt ggaagagggc gagaatcaga 780
gtatccttgt gacgtgagtc tttgcgacgc atccgtgtaa atgcaaattc tgacgcccgc 840
acagaggaga gtctggggca ggcaagacag ataacaccaa aaaagttatc cagtaccttg 900
cagccgttgc aacatcagat aatatgtact ctcgctcagg aagcaagcag atgaacaccc 960
tttcgcagca gattttgagg gcgaaccgca tctcagaggc atttggtaat tcgcagactg 1020
tcagaaacaa caactcatct cggttcggca agttcatcag aattgagttt tctcgatcag 1080
ggcagatttc aggtgcttcg atcgattggt atcttttgga gaaatcccgc gtggtgaaac 1140
ccaatttgca ggagagaaac taccacattt tttaaccaact actcaggggt gccgagccta 1200
aactaaagca aaagctgctt ctgtcgaact tacagatcga ggacttcgct tacaccagag 1260
aagggaaacga tacaattgct ggagtttctg acgaaaaaga atgggactcg ttgctcgagg 1320
ctttccatat catgaatttc tcggaagagg atcaaagtgt catccttcgc acagttgcag 1380
ctgtcctcca tctaggaaac attaccatcg tgaaagaaag tctacgggct gatcaagccg 1440
cccttagtcg agacgccctt gatagtgttc ataaagcatg ccagcttttg ggaattgaga 1500

ctgagccctt tgtcaagggc ttattacatc ccaaggtaaa ggcaggccgc gagtgggtag 1560
 agaaggtaca gactccggag caggttcggc tggcattaga tgcttttagca aagggtatct 1620
 acgaaagagg ttttgggtgac ctgtgtcaacc gcatcaacag ccgactggaa cgaaacactg 1680
 tcacgggtga agacagctac ttcacgcgtg tacttgatat cgctggtttt gagatcttcc 1740
 aaaacaacag ctttgaacaa ctctgcatca actacacaaa cgaaaagctg cagcagttct 1800
 tcaaccacca tatgtttgtc ttggagcagg aggaatacgc gcgggaacaa attgaatggc 1860
 agttcatcga ctttggcaaa gatttgcagc caacaattga cctcatcgaa gtcacaaacc 1920
 ctatcggtat tttttcttgc ctggatgagg actgcgtcat gcccaaagcc acggataaat 1980
 cgttcaccga gaagcttcat tcgctatggg acaccaagtc caccaagtat cgcgcctctc 2040
 gcctccgaca aggcctttatc ctcaccact atgcagccga ggtggagtat tccactgacg 2100
 gttggttga aaagaataaa gacccttga acgataacat aaccagactg ctgcatacct 2160
 cgcaagataa tcatattgca gctctgtttt cagactgtgg aaacgcagat gaggttgacc 2220
 atcccagaag tcgcgtgaag aaaggcttgt ttgcacagt ggcccaaaga cataaggaac 2280
 agttgtcaag tctcatgaat cagcttact caactaccc tcattttgtt cgggtgcatta 2340
 tcccgaacca caaaaaacgc ccgaagatgt tgaatgcccc cttggttctt gaccaattac 2400
 gctgcaatgg tgtcctggaa ggtattagaa ttgcgcgtac cgggttcccc aaccgattgt 2460
 cctttaatga attccgcaa cggtatgagg ttctttgccg ggatatgccc aaaagctata 2520
 tggatggaca gtctgccgcc cggataatgc tgcagaagct ggctctagat aaagcgtggt 2580
 ttagagtcgg ccgcaccaa gtgtttttcc gagctggcgt cctgcagag ttggaggaaa 2640
 aacgtgacga gctcatccgt acaatcatga cagattcca gtctgtagcg aggggttttg 2700
 ttcagcgcag gatctcaaac aaaaggctgt atcgtgcaga agcaacccat atcatccagc 2760
 acaacttccg agcctatttg gagatgaagg ccaaccctg gtggcgtttg ttctcgagaa 2820
 tgaaaccgct tcttggggag acacgtactg ctcaagaagt gaagagaaga gatgaaaaga 2880
 tcaaacaact cgagacgaaa atgaagcagg accaatccga acgccagaaa gttgaggaag 2940
 aaagacggcg agcggagata gagatacaac gaatccagca gaccctggag agcgaacggg 3000
 cattggccct tgacaaagaa gaaatcttca aaaggctgca agatcgcgag gtagagctca 3060
 gcgagaaact agcaggcgct attgccgacc aagaaaacct cgaagatcaa ctagacgaac 3120

taatccttgc gaaaaagaag acggacgaag agctcgacct gcgaaaaaca caactcgagc 3180
 aggccggaga gattatccag cgcctagagg ctgagaggaa ggagatgcag cagaagttgg 3240
 aggatctgga gcagaagctg cttgaggcac agagcagtgc ctcagagacg gaaaaccata 3300
 tgagggagct tggacaagag gtcaaaatgc tgcaaagtca tctcagtctg aaggagcggg 3360
 aactgcagga tttggaggca aaactgctga agaccgacca agatctggat gtcaagctgg 3420
 caaaaacatc aaaggaattg gaccgatcga agaaagaagt caag 3464

<210> 1838
 <211> 1993
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1838

ggtgccgcgg gagaggtaag gccgttgcgg gatgtagaag atgtcttcaa agcgaggctt 60
 cttcacgcgg ccgccgtaga cgggccagag cgcctagaat tcggaaaaga gaggatttgc 120
 cgcagccgtt agggccgaca atgaggaggt ggtcgccctgg gtggacggta aatgtgagtt 180
 tgccaacaag gacgtcacca ttgggggaaa cgatggggac atcgggtgaat tcgattgcgt 240
 cgctttcttc aacgatgccg cggccggaga gtacggcagc gttttcttct gttgaggcgg 300
 aggacacaag tttcttttcg aagcgtccgg ctaggaggtc gtccatcaca tcaagcaggg 360
 atgatacacg ggctgtgaaa cctgctagct cggagatttc cttgtaggag aacattagac 420
 ggccgaaggc gtctgatgag gagagtaaca ttcgtctatt agtgacaaaa cctgtttcac 480
 gcattagttc ctattcgagt acggttattc aaccgaaaag caataaggtc tcactttctg 540
 tacggtcacc cattgtctgg gtgacttgat cagagattct aaagaaaacc gggacactgc 600
 acagaatcaa acccagagcg cccagaagt acttgataac gaaatcctcc ataaatccgt 660
 ggtataggcg cctacgcagg attcgattca catgcttaat gagggtgaaa tagcccttgt 720
 ccaaggtgtc cttctcagct tcgtggccat gatatagagc aatttcttca cagtagtcga 780
 ttaacctcga atggagaaat ctgaactcgc cttccaggcg agcttcgctg gcaacgtatt 840
 taccgaacgg cggcgtcaat gcgcgcatga cgttggcaga tagttgaacc aagagactca 900
 taataaagag accttcacct ccaacactct tcgaaagcga gtaattgtag atcatcatgt 960
 caagtattgg cttggccaga ttagagtaaa gttccgcca gctatcagag aatcgggata 1020

cgtccactgt aatgagttga tcagggttct tgactcggtc gtccaaggcc gatatcgcat 1080
 agaaggtcac gtttgatagg tatttgctgt gaatgtgatc ggtaaggcgc ttgcggtagc 1140
 tgagtgcacg cttgcactga tgataagaca actatttcgg ggggaaacat gttagctacg 1200
 ttctgttccg acagcaatta gtttaaccct gaatgtgcat gatgctcacc atagagtttg 1260
 tgaacgtcgc aggcaccgca acaatcatcc accacaccag tcccagcaga aagtcctttc 1320
 cttttcctcg caccagattg ctgacaagcc gaccgtttag ctcagcaacg tacagactga 1380
 ggagcgtccg cagcaccaaa aagacactat ggcttatcaa caagcgtaac tctttactcc 1440
 gccagcccgg tatcacgac ttgagcagac gtgccaagtt ccggaagaat tcacgattaa 1500
 cgcccacctt cttccgtggt ttgtcgccgc catcgccgag actgctggtt cctgggtttc 1560
 tccgcagatc cacctgacgc tgaaacgccg ctttttgctc cgatatagca ttatgaatac 1620
 gctttgcgag ggcagcaaat agcgcgagat agactgcgcg agaaatatct gtgcgggtggc 1680
 ggaggtacaa tgatgccagg ctggagagaa tctgtcggac ggaacgttcc ctaggagatt 1740
 tcgactgagc agccatagtg acggaaatgg ccactcacgc aaggataaaa atgactttat 1800
 ccggaatcaa cgtaaggcaa catgaccagc ggcgatactt ctttgaggaa agtgatgata 1860
 ttgttgatg ttgcttgaag aatggtgaga tagctgaagt gcccacatgca tgtgaacgcg 1920
 gccaaaacac tccgcaaaac tggggatgga gccgaggtcg ggccagggtc gagttcgccc 1980
 atatatcacc cac 1993

<210> 1839
 <211> 3638
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1839
 ccggtatcat cgcgcttcat attcctatgg tgtggactgg attccaaaaa atgtcatgct 60
 caaaatcggg taggctgctg agaaggaggt gtatttattc gacgtttctt atgaattgat 120
 taaattctgc tggcatgaga agacaagcaa tgatatccat gggccgttta tggaggatgt 180
 ttaggtggaa gaagagcagg gcgccggcat ttgcttccta gctcctggta ttaatggaac 240
 tcctaataata ccaggtacag ggtcagcgac gcaattggaa attttctgaa ggatgatggc 300
 ctaggcacgc ctggccggat atgtgagact tgtatcaaag acacaggcaa gaggaaggat 360

attcccaagt ctgttgccat cgccaaacaa attgaccacc ctcagaagtc ttttctcggt 420
 cagccacagc ctagcggcac taagccggtg ggcagagggc tcataaaaca gcggtacctt 480
 aggttcctgt taagaagcag tatttaagag cccgaacaac aagtgtcaag tatcagttgt 540
 attcatcat cgttactcat aacgaaaagc gattttcgat gccaacgaca atgcaatgcg 600
 tgggcggtca tggagctcac gggcagatgg gcccaagtca atgatggatg cacttcaacg 660
 gatctggcgc tacctgacta ttaactacga ttacaactac agcccttggt gcttgccttac 720
 aggagccttc tgcttaatat gaacgcccag cccaatgct atgatgggtg tcactttgca 780
 tcaagaattc aaattgaacc cgttggtgtg ataaagaggt atgataagca tctagagcat 840
 cgagacgacg tcacagctga tcgaattaga agtaaaggaa atactcacca tgcccaaac 900
 aaagttaaca tcgcttctgg aggaaacggc taaggagtac gagggcaagg cttgtattgc 960
 ccacaccaag aaacaaaagc ttggtccctg tagctcccg gtatggagat ataaagtga 1020
 tttaacggat gtaaagccta tgtccaacga tagagcagta gtgcttttgc gcatatcggt 1080
 agttcgtatt tcattttgta taggagcgat aaatatatat tctgcaggct gagatttatg 1140
 tacttgatgt gccgttcata taaccacagt atattacacc atgtaggctc caggaacgag 1200
 cttctaattg gtcaagtcag aataccatag ccccgcgccg tgtctttatc acaatcgccc 1260
 cgctctgggt ttctgttctc aattccagga caattacagc cagattctcc tcagactttg 1320
 tattgacagt aagtaccggc cctatttcct gatcctctgc agctgttcaa aatatattct 1380
 atcaagtcatt aatactacaa ttggctcgca gagaattctg gaattcgaga tgtgcttcca 1440
 ctgggtcccc gcacctcaca actgccatat cattccatct gtttccatta ctctttcctg 1500
 tattcctaca aactgaccgc ggtccagaaa tatccttaga tcctatacat ctgggctcta 1560
 gtcgtacggt tgttgctaatt tcctgcccatt ctaatccgcc ctctcgaaac tccgaacctc 1620
 cgccctaagc gtccgtctga gagtcggcaa cgatacctga taaacatata acatgtcctt 1680
 ccaaccaaca ccgactgaca tccccgtcgc aattacaacc ccatttacat cttccccctc 1740
 cgacgaaccc cgctgcatt cagaacgccg cataactcca acatggaccg tccagcaggt 1800
 caaggcaaag ttggagacca tgactggcat accaccaagc agccaaaagc tccgtctcaa 1860
 gacaccggc cgtgcagaac attgggttga tggcgatgac acaataattg gggagtgggg 1920
 gttgacgcgg ggatgtgaga ttgaggtaca gttcatcaaa agaacaagaa aggtgatttg 1980

gtattaactg atgcctggat aggtccatga tacacggccc caagcggcac gagtgaattt 2040
 caccgacctc tcattcgtgg agaagtacgt cttccaaca gagacatacg aaagcctgcc 2100
 gaattcggtc cttgcgtgga agaagagcca gaagctgggg cggtttgatc cgaacgcgct 2160
 ttcgccagtt gaagcgatgg ctgagcaagc gaggaaggat aaggaggagg tcgagaaacg 2220
 tggttaagtat cttttgttcg cttatcacca aacctgtgtg gtgaacgatg agaatctggg 2280
 ggatggcggg tgctgttaat gacactctgc agacatctcc gtttcaaac gagcaatcat 2340
 tctcccttct tcaccacccc atgtccgccg tggcacgatc cgttcgttg gccccgtccc 2400
 ggcaatccca gttcccggtg ttgacataga gaccgtggac accccagcac tgcccatctg 2460
 ggtcgggatt gaactcgacg agccaacagg gaagaacgac gggagtgtca atgggaaacg 2520
 gtactttatg tgcccaaata ggtgcggagt ctttgtgaaa ccggagaagg tgcagggtggg 2580
 ggattttccg ccgcttgggc tggatgatga gttggacgag gacatggagg agatctaaac 2640
 tagagcaaaa ttgggggtatt atataaaagt atgctaactg actcaaatgt cgggtgagcc 2700
 cgggtgttct cgttctggct caaagagaaa tgttggaag gtaataaaat tgatagatgg 2760
 atacaacaac accgtaccag ggtaacatga gggcatcgct aaaacaaaaa cagtcggaac 2820
 agtgtcgaag ctacaccaac aagatgagaa acgttggaat ttggtaacgt aacggtatgc 2880
 aaaaagggtga gttgtaaagt cgctggaacc ggatcgggat aatagaacac ttaaggatgat 2940
 gttgcctttt caactcaagc agcgggcttc tgcttccct taggcctgcc tttaccggct 3000
 gtagccttct gtggcctgga acgtgctgga ggggtgtttg attcgccgtc aagcgcatcg 3060
 gtttttagacg cagaaccagg agcatcatct cctccgccg tgctagggac acagccctgg 3120
 gtgaagaaca atcgagcatc tttgttgat gtgtttgcga agctatagta gttacctatt 3180
 atgggtaagc ggtgcaaat gagtggtatg ggttgcgatt gtctaatact gaccacgggg 3240
 aacctgaaag acgcatecct tgccagcact aaattggacg cctgagatgt ccactagaac 3300
 tcgcccgttg acaacgtaga atatcatatg cattttcttc gcgttctttg gcttcttgac 3360
 tccgccgggg ggtagttcaa cgatgcctga gccgatgaat ggtgaactca gaagcttggc 3420
 gaacctgaat gatgcgcct tgacatctcg agtctcgata ccagacgggg cgtacgcgat 3480
 atctgtacgg cgtcagggtc gtcgattatt gatgaagggt ttggtgtacat acctaaaact 3540
 tctcctcgt ctagagctgt ctgtgtctca ttgtcccatt ttctgatata accatgtaaa 3600

acgcctccct tctcctcgta aggatctcgg tattggtc

3638

<210> 1840
<211> 2432
<212> DNA
<213> Aspergillus nidulans

<400> 1840

caatactcca taatctcgtg aaaaagggtct tcatgcacca agggctagac atctccttgc 60
gccaaataat gttctatctt attttagatc gcaccagtgt actaaactat cttgtcattc 120
taccaggaaa tatatcatgt aagcaaggat ccatcgcaac tcacttttcg gctaggccga 180
agctccaata gctggaagta cttttttttt acaatactcc tcaataagat catctagaac 240
attgcaaact tccatcagca atcagcacta ccatagcctg tccagcaaag ttagggctag 300
gctacagcat tctcctccta gctactcaac cctcgaaaat accactccgt ccccggtcat 360
ggacaatctc gacgactctg gatgcgattc ttggattttg ctgatatggg ggcaagttcc 420
tgttagaggg aaggcttgac atctgcctca gagccacccc gtatgataga gtcaggaagg 480
gccctcttca agatttagag gagctggatc tacgaaaatt ataacattct ttcgtccctt 540
ttgaagtcgg tgatagcgat cccttagaac ctgattcaga gaagtgcctc gttgaatact 600
gaacggcgca agctagggaa aagatgtcca aggtggtacg gagtgtagg tctactcgaa 660
gggtgaaggca agagttaggc catgatgcc aagtcacact tctttatgtc gtggcagact 720
ttctgcactt gagcagcggc tgtcatccct tgtctgcgtt caattcctcg gtcctaaat 780
cccataaatc tggccctctt gactaccaga tatcccagt ggccagtgtt cgacacgaga 840
cgccgttcag gcacaatccg aagctgcctc tagagtagag ggaagataga ttagacagag 900
aacaagttcc tgtgtcataa ggatctccca ttctctccag gatgtcaaac atccatggat 960
aatccagttc cttgagcact cagtgtcctc ttctccaagc tcagcaagct cttgagaaga 1020
ccgtgaacat cgccattgcg tatcaaacgc cgccacagca gcagtcctaa atgcctatca 1080
acgaaccttg caggcctcca cgcgtcttag tatggtttct cgagataccg ggccgacctt 1140
cttggtgggc gggacacagc tgaccgggca tgtagaatct agaaaccggc caagatttaa 1200
gctgatcaaa gcatcatata taaaatcgaa gcttcccatg cctatttcat acgcctggca 1260
ttagcgggtg acggtctcag acgttcgact ttagttcac gttatcgaga ggagacgagt 1320

aatatagtg acgtccgtaa agagcccata ggcacagggt tgctgtaaaa tatgattaat 1380
tgccacacga aaccaaagct ctagagatga tggattggct gacgggctat tcgcttgagc 1440
gtagattatg agatggcatt tggtagatga ttgagggtaa tgtggagggt cgagtgtcaa 1500
gtgtcaggct cgagtattgt gccaaagctcc acagcccag cttgatctgc tggagcttct 1560
ccaacttgct ccctgactgc tttttgttta atgtcagtc cacgatgtcg acgacgagat 1620
tgcctaacat cccgtctctt cgcaaatacc aactgatcca ggagcagtaa gttttggctg 1680
cagaatcaag ataaaatagt atctcattgt tatcagtga agcctgaaac atgcagctcc 1740
ccctgggggtc tatgtcagcc tcagtcctgg tgaccctct ctctggctct gcgatgatt 1800
cgctccgctcc ggtaagctac acttattgct attgaagatg cctctaata tctcgcttgc 1860
aggcccttac gcttcgcca tctccgatt ccgatacgc ttcccccgct cctatctga 1920
tcgcccaccg ctctgacat tcgtacgga cgtcttccat cccctcattg taccctcac 1980
cacatatact ttcagcactg gcgtatcaaa tgaagacct gtcagcgcaa cggatgaaga 2040
gcggttgccc ccgggagggt tcagtcctag acacgcattt cccattggt ttggaagggg 2100
gagacatgct ccctcatcga ggactgtgag tctcaatggc tcgaataaag ggggtgcaga 2160
ggtaaacctc cacaagatc ctacgcaaga gacttcagcg ccaaaccag atgagagcga 2220
gggcggggaa caagacgaca aagaagggga aggagaagaa cggacatctg ttgatattgc 2280
tccagcagaa gctccaaaaa tgaggatata agtcccggtt ctagagattc tagattacat 2340
ccgaacttcg ttcgatgatg aggtgtcct tgattctgtg ccgctcgagg ctgctgggaa 2400
ccaagtgcac ggcacgcatg gagagctcac cg 2432

<210> 1841
<211> 4627
<212> DNA
<213> *Aspergillus nidulans*
<400> 1841

attaggaact catcctgctg gagtttcacc ctgccctata tcatcttggc atacaaaaca 60
cccgttttta ctaccgggt tccatgggca gaatcttgac cgtgcttgct cgaactctaa 120
ggacgcagtc aaggcgaggc acagatggaa gagttgcaaa cgcgggcctc ataatggca 180
tacaatgct gaatcttgta tcttgaacaa aaataataga atctctatat gacggcatct 240

tttctttctg gttacgtaga ttgtttatat accgcacagc agtagctctc cccgttcctt 300
 ctctctctc acatggagct aagcactgac aagtcgacga atcgatgtat gtgttttgga 360
 accggagagt acaccgctta gaagaatgcc gtatactcaa cggtaaggat aaagcggaac 420
 ggaagccaga actaggacta tgtagtcgcg tccgcctggg tacagcgatg gccgcccga 480
 agcaggagtt ttttctcaa aggagcctgc gtaactgtaa cagtggcttc atctcaaagg 540
 gagacgacgc tgatgaggcc gatgcggaca tattgcaggc aagccgttcg acgatgcagt 600
 ctcttgcaa acgtgcgaat tcgtcttgct gtagtagacg cgggtggcata cagtagctgg 660
 gctgtgtctg cctcatgaat gcactacac aagattgtgc acagcctcat tctgcgttca 720
 ggaagactcc tgtctcttca gtaagaaaag acgtgatgtg gagtatgtca ggcgccgct 780
 tcattctcgc acctcgact ctccatctc aacctaaag tattcagcga cctgagtctt 840
 ttcagcagcc gcgtattcag aatcgacaat aaaccgcact gctgcgtccc ggctttttt 900
 tcctggcttt gggcgctctc cggtggcagt aactggaatg agaggggtgat gaagagcccc 960
 agtcgtcggg gctcctttt cgtctttga gctgttggtt gctggctcct tgcgcgagtc 1020
 ctttgtgagt ttgtcttcat caatcgagtt ggtgtaccgc gggagattct gttcttctgc 1080
 ctctttgttc aatggaatgc gtacggtgag gaagcggta cggggaaaat gagggccgac 1140
 ggctgtagca ctgcggttgt gtgtgtatag ctcgaggagg tcaagtagag tttctaaatc 1200
 cattagtcct ctgatggctt ctttgtggct tcgacgtacc cataacctcc tcccggttg 1260
 ttctccatct cgcgtagtct gtcccaagct caacctcctt gattcgttgt tccagtaagc 1320
 gtccggcgag ctccaggcag ctgaaagcca tcgtagatgt cgtctgcttg agcggcgcaa 1380
 aggtgcgata gaggtcttgc gagatgcggg aggtacgtt cgagacttct gattgaggtg 1440
 taagtctata ctgtcttgcc agctttatga gagttttttg tggatgccgc gttcgaaaat 1500
 cgaaaccgga actctcgagc atgagtctct cgaggccgat gatgcctcgg gcgggttcgt 1560
 cgagtatcta ttagaccga tgtcagcatt cagtcgcaag gcattgttgg aacaagcacc 1620
 atacctgatt atctgaagag atgtgttctg attgcggtaa cttgagatta tacgccgcgc 1680
 atagaatctc acgcgacttt ttgagcgtgt cttcgatctt gcaggccata aacagggcag 1740
 ccgcggcagc atccttaacc gttagactcg gtcaacaaaa cgagaatgtc agaaacctta 1800
 ccatattatt gtagtcctg tcgtgggtga tcagccggaa cttgtgataa tataccactg 1860

cagtattgaa tggttgaatc ggcctatctc attagcaagc aactttcaca gttaatggag 1920
tgatccacat acagattcag cgcctgacga acattatcga tccaggtcac gccctgcaga 1980
cgtagagact cctcacgcag aggattgacg cccattgcgg ccaggcattg ctggatggtc 2040
tgctcgaaga tatacggctt tgctacctgg atgaaggacg ggtgaattgg cggaggatca 2100
ggcagggcca cgtcggagcc gggagcagtc ctcgagtcct gctgctgttc aggagccatt 2160
ctggagccga gcttgaaaat ttctccaga aaggttccgc ttgatgattt gcggactgcg 2220
ggattgctat ctggaacatc aagcagctgc tgccacgtga cggtgaaacg tttttccgag 2280
ccggctatac tagcaatagg tgagcgagaa ctaatagatg agatggatgat ctagatatga 2340
aaagatgtaa tttgtatttg cttaatctcg taaattatgt ataaataggt gatgggtgaa 2400
tattatcacc acaggctcag gggaaactata tacttcgctc agccatactt cttgagcagc 2460
ctctccatga ttgatacagc accagatcga tatccagacc caaagatcgc atgggtgatta 2520
agatggatgat acctatggat gttaggctgg aagcaagtgg gaggtcaagg caacttacag 2580
ttcatacagc ctgacctgat cctcatactc ctcaaccggc tctgtcttcg gcacgatctt 2640
atgatactca ttgaagaaag ccgacctgaa tcccccaaac atcttcatga tccccaaactc 2700
atactcactg tgcgcataac aagccgacgg gtcgtagacc acatcaccaa ccacctcgtc 2760
ctctttccgc ccaactcccta caatgcggcc ggggctggca ttcccactcc agagatcccc 2820
atggacaaca acaggagtaa ttccctgccc ttttccagac gtatcgtacc cgagatgtcc 2880
atcccccaaa agcgccggga caacaatgtc tgctgtcttc tcaactaaac tcctcaatcc 2940
ataatctttc ccatttcgct tttcggacgt cgccaagatt gtcaagagcc gtcatttgc 3000
ataaaattcc gccacgact cacacgatcg attcggctgt tttgtgtccc cgcaaacgt 3060
cggcacgggg aatccaaaca gccgctttcc cgtcttcggg tcaatcgggg cgggctcga 3120
atggagcttt cccagcctct gtgcaagaga tggaccacca tgaccagcag ctcgagatc 3180
gaggaactca gtcgcgagga agtagctctt tccaggttg ccgccctctt caagagggcc 3240
ccaagctatg gcgcggggac agaaacccgg cacggcggac gagatagcgt tcagggattc 3300
gtattcgctt agaaacatct ctttcgctgc ttcgctgcg gcagaagtct tgacgaagta 3360
cttgcgctct tcattctggc cgtctgtgcc tgggacggtc gctctgacta cgcctgtgct 3420
ggtgaagccg gagcctaggg cggctgtgct gagtgtagct ttggaggggt tgggaatgga 3480

tagggcgcgg agaattgagg ctggtacttc ggacattatg atagtataag atttggtcgt 3540
 agtagcataa atttcgagag tgtgagatgg atatggagaa ctaacgactc aggggtacctg 3600
 aatgatgggtg tggtcctatg acgttatattt aaactcttat cgataaggta tttctatggt 3660
 tgtggcctgc tgaatagtgc caataggaaa gttacggcct aaaagtatat caaatacaag 3720
 cacagtgatg gagtccaaga tattttgtac accataagtg gttcatttcc agcatcaaac 3780
 ccggcaccaa ccaggcagag acaaggaatg ggctaattta caagcaacgc taagagtgtg 3840
 tcaacgagtt taccaagtgc agtgccgtct tcgttcgctc gcgaacgtca aggtccgggt 3900
 catgttcaag gctagccagt cgatctagta cccaattga acgtagctcg agtgcgcggt 3960
 tccggcaacc ctctcgatcg tgaacatcat cctcatatgt gaggttaatt accaccaca 4020
 cgcaattggc acggacgtct cgggtggctgt ggttaaagta acccatcaaa taacgaatga 4080
 gatcgcggtg tgagactatg agctgccgtt accatggaag gcttgcagcg aggtggatga 4140
 taacgaacgt tactgcgacc aaaatctcag tggggacctg aagcgcgcga tggtttgggg 4200
 actctcgccg atgaggcagc tggatagacc ttgggcgcag tttatcggcc aaggtatcca 4260
 gcagcaaadc ctggccgagt tccttgaaga gatagtcaat catttccgat gcaccaggcc 4320
 cacatatgac atttcttaga agatcaaagg tttgctcttg cgccgcaatg tcatcctgac 4380
 gggcttgtgt ggtttggtca agatcgccat gcaaagcgag cttacgtcgt ctagtggcgt 4440
 ctggaaagaa catatctaga ctgactttgg atgatggcac aggatcggtc attttcatgt 4500
 cctcatccct ctcccgaag tcatccatcg gattcagcaa gtctaccgtg tcgccagctg 4560
 aattggcccc actcatcccc cttggagtgt tactgtctgt atcgccgca gtctccgctt 4620
 attagaa 4627

<210> 1842
 <211> 2134
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1842

ctggatggag gccaagtga aagacagcga agcgacgatg caggtggccc tcggacaact 60
 cagagcagtg gacgtgtcgc gggttcgcac gcagttagat ggtgtaagac tgggaaggcg 120
 acaggaggcc aggcgggatc agcggggaaa taacggagca aatcagtgtc agagcttcca 180

ggtcgcgggc caggttaaga gattagagga ggactggctc ttgctcttgt ggtggacgga 240
 acgctggatt aactctggct ggactggaac gggacttga gaggggaaag atcacgttat 300
 gcgtgactaa tcaaagcaga gaacctaata tggtgtggc tggtagatg tctcaagatg 360
 caaagcaccg ccacatgagg ctgggtgcc acggcgattg ctgacaaggt gaggtggacg 420
 atggaacgat aaaacctgga gggtcgggct aggggcccaa ggtttgcttc tgcagaaggg 480
 cagagtcaat gagccacaga tgtccagaag aacaacctgc cgcagacggg accgatctgt 540
 gggtagaggc gacgggggtg ggtgtgacca acgggcaaac ctgagtgtag ttctagagta 600
 gttggtccgg ggggtatgcg ccgtacgcaa agcaggatgg ggattagtgg gtggaggggc 660
 acaaagtccg gaggaatgac gaggagtga gacgaagggt ggagatagat gagcgggtgca 720
 ccagacaaag cgaggccacg acgctgtaga tttagcgaag agttgaagga ttcgttgttg 780
 agggggactt ggtcacacag gataagtcgg ccaggccggg ctgtttgatt ggctgtggct 840
 atgcatcatt tgtaagctgc acagttcaca tccataactt agaacttga aaacacactc 900
 agtggcagaa tccgatacga ctactgtacc tacgccatg accgtcgggt agcgcggcgc 960
 ggagtttctc ttccgcttct agtcaggcta actgctagca aggtcggact cgagacctga 1020
 cgaaacagga ctctgcaagc gcggtaatgg cggcctcgat cagcaacctg tgaattgggc 1080
 agcgagcgaa agaaaaagcg aaaaagaaag gaaaatgaaa gaaagcagcc gatgataacg 1140
 aagaaacagg cgaagagttt aaacgggaga agcagcaaaa gggaatgatc aggtggcat 1200
 gctgtgatgg agagcctcgt ccgcgatcga tctgtgtcat agcacactgg cagtagacgg 1260
 agagaactcg gaggagcggc caacgcgaag gatgaataaa acgggcagtc ggctgggctt 1320
 ttogagtacc attttctaga tcttttacta ctgtgactat gaccgtgacc gtgatatcga 1380
 gtcaattcga gttcagaatg ctacagccta cgctacgata agcgccagtt gatcacgatc 1440
 aaagttcatg ctgaccacga gcgatgatca gatccctaa cgtcgaagca tctttttcc 1500
 gaagttggac gacatcttcc aagcaggaaa tgatcaacaa tccatcaaag ctgcggagga 1560
 tctaggatcc ttttgcaag aacaagcaag taatatcatg gaagcgctc gtctgcttcc 1620
 ccattgttta gcagtcttga agagcgccaa tcgcgttatc tcgcacgacc actgcttgtc 1680
 gactgccagc tgagcatccc tagtggctaa ccagtgggc aaagactccc ctaatgcatg 1740
 acaggatgca aggatctatt gattgtatc taggcttgca ggcgctgcag gctagccttg 1800

atgctgtaga ttacggcgcg gcgcttccgt ggcatagcat gttggattta gcagcgcacg 1860
 ggctgacgag gccaccctgg acatgacgcc ccaatgcctc aagaggatcg gacgcactcc 1920
 cattgaccgc atggtcgtag ctatttgagc tgataagctt cactccttgc tcttccctca 1980
 gactatacga agtcgaagta taccagcgac aggaactact ataagccata cattccatac 2040
 cgctccgtag catgaatcta cagtactata tatactttgt tattggcggt gtggttgact 2100
 cccaaaaaaa aaataattag aaaaacagcc aaaa 2134

<210> 1843
 <211> 2963
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1843
 cccttgtttc aacttctcag ctgcgaatca aagatccatc aatacgagca accaaaatga 60
 acgtcaacaa aagattttac cgcttcaaac agtgggctgg ggaaagaatg ggcggcgagg 120
 tcaagaccaa tgtctctgat gactttaaag ccttggaaac ggaaatgagc gtgcgccacg 180
 aaggtaaagc aatgctggac cgattttgct tgtttacctt atgctgaaat tccgcgtggt 240
 ttgaaggatc cgaccgtatc cacaagtcca tgaccgccta cgtcaaactc atttccaagc 300
 gcagtgaagg ggacgacaaa gagaaaacat tgccaattgc acacctgggt ggtagcatga 360
 ttactcacgg agaggactat gaagtgaact ctgaatatgg acgatgtctt accagtaagt 420
 tgaatgtttg tgcgagccca aatcaatccg gaagtctgac tttgttccag tgttcggaag 480
 ggcagaggag cgtcttgctt ggattcaaga gtcttacaat cgcccaagcg acctcgggct 540
 ggctggagtc gttggagcga tctcttactc aattgaaaga taccaagtat gacgaacctt 600
 ctggtttgat ttagggcctt atcttgtcta accggttcta gacattcccg aagaggttgg 660
 acacttgacg tcttgcgatg gatacttctt ctatcaaaga agcagaaagc aaagagggag 720
 gattctcgcg tggaggaaga gctgcggaca cagaagggtc aatatgaaga agctaacgat 780
 gatgtgtatc gccgatgct tgacataaaa aattccgagc cagagaatgt tatggatctg 840
 caggccttct tgaatgcca attgaattat catgagcaat gccgggaagt gcttctccga 900
 ctaaagaacg agtggcctgc tgagtgagtt tcacctgtgc acaattgagt tgaggggttc 960
 tctcggacta atagggctag gcaaaatgca agtcaaccat caactggtca caacgggagt 1020

cgttctcgat caaacacggc ccattcgtag catgaccgct ttgaaccctt gcacgaagaa 1080
 catagcaatg gtgttgaggc acgaccggcc attaaatcta acacgcacag ttttgccgag 1140
 tcacctatca gaaaagccta cagcaagag acttcacctc atcgacctgt cctgaaccgc 1200
 acctcgacat ttgagggttc ttcaccattg cgacagggtc atgagcatcc ggttgccgcc 1260
 caaattgcga cgcgaacgaa tagcgaaaac ctcatatcga ggaggaacag cgtacaggct 1320
 cgtccgatta gcagggtggt accggaacca acggaggacg ctggatatca cagtgggagc 1380
 gtgtctgatc gttcagacaa cagctggact gaatcccgcc aaacgccatt tggcagcacc 1440
 gtttcaagaa gaactagctc cagcaccctg aacggattcc cgcacaagaa agccccctcg 1500
 ccaccaccac cctcgcgcg c aaagaagcct gcacctccac ctccaatgaa gcgccccgtg 1560
 ctcagtgcag ccaggtatg aggagttaa taggaaattt atctaggagt acggcgggac 1620
 tgggagttat gtaggacggg gatagggtt gtacagttag actgcgttgt ggctatcttt 1680
 tctccgcaat cacctcgcg gcgagctttt gaaggcggat cattgcgggc taccgacgag 1740
 gttgcttggt ttttgatatt acatactatt gttaattgct gcttaattca gtgctgtcgt 1800
 tcatttccca tcggatgaat taaattatgc gaaatgtagg cagtacgcac gcagtatggc 1860
 ccaagagttc attactgtag atccacgatt tggagtaaac ggctaattcc ggcaacgccc 1920
 tagctaattg ccacctccta ctattccgga agcgggttaat cgactgagtc agcacgcgct 1980
 cgtgcacgtg acggcaagga cggcaaactt cttccaactc ctcttcccca acaggccctg 2040
 ggtgagcacc gccgaccagc acggaaagtc gcgaaagccc cgtccctcca tcgccattcc 2100
 atcaagacag gctttccacg cgctttcttc aacatccacc ctctttttgg ggcttttatt 2160
 cccgccccaa catcgctttt acctccccct cctccccctt ttgctgattc tccttttgat 2220
 cgcctaccgc cctgtgcctt ccgaccagtc taaacatcac gaatcctatc gccaaagtcc 2280
 tgatacaggt cgctacttgt cgcattccat gacaagacac atctagggcc ttggactttc 2340
 gtgattttgc gcgtcttgtc gccttatcat cgcgaattgt caattaccct tacgaatttc 2400
 ctttccacgt gtttcgcttt ctccctgact tcaagtgtcg cataaaaccc ggcgccaacg 2460
 tgtctcttat atttatgaat agacaataaa cgcgctcgat catgacgtcc ctccagacac 2520
 ccccaaataa tgtggccccg gcaaataatga gcctaccggc aaatttgacg ccgcagcaca 2580
 tacaagaaac ccttcaggta tagtggtgct gttttcttat atgttcatgg tctacctcat 2640

gctcttgctc tccttgccaa ttgaacttag ctctctttt atttgctgct taacctaaaa 2700
 gttccccctc ctgttttagtc gctctattct aattcatcac agaaattcaa gcagatgcag 2760
 gaacaaggtg ttcgtcaaga tgaccccgaa tatctaaagg cacacaatct cctctctgct 2820
 gttcagcggc aacaagcttt tcagaagcag cgacaattag cacagcagca gcagcaactc 2880
 caggctcagc gccaacagca acaaaatggt tcttccaccc aagaggccgt ggcgccgaat 2940
 ggagtcaaca gtaagacttt cgc 2963

<210> 1844
 <211> 2416
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1844

gtcctcgtgg tgcagtcaca ctgaagtctc gacggccgcg gcatgtcagg tgtccggtta 60
 tcgaaggat gaacaaagcg agaaagttat tgttgatgag agaggctgag aacacaaaac 120
 cggacatggt atttattaga ataaggagaa ataaggagat cggaaggatt gttgcgctaa 180
 atcaagtcta tggaaatgat atctcaggaa ataatggctt atgaaccag gaccaagca 240
 acaccgatcg ctatgaagca cgcactaaac ccgcacgcag aacctaatc tcattaacca 300
 gtctcagttt gtgtcaatgg agctatatag ctgattcagg gactgactct ggaaagcagg 360
 gacaagaatg tccatctcta gcgacggagc attgcgaaga ggaggatggc tctctaaccg 420
 tctccatgga cacagttcac gacaattgtc cagatccact aaagcttctg caggatggat 480
 tctctgcgca gcccatattg catccggtat aggcgagggg ggtccaaggc acctctcggg 540
 ccagaatgtg taggtcgccg tgccggctgc ttcattatc cgaggctggt ttcgtggaca 600
 tcttagaaga gtgttgcaag agctgcagac cgagattcgc cgacatgaag agcagtaatt 660
 ctcttcggc tggcaaagcg cggatatggc gacgccggag agccatagat ccaccgagcg 720
 atgtgcacat ccaaagcgag cggatcatata attctcctca ccaagctggc ccgcgactgt 780
 tgtcaagtgg tattcgggtc tgattttcag ctggatcatca ccgtccagct cagggtagat 840
 ttcaactoga atttgagtag gtccatattc cacagagcac gaggccagc agaagcgctc 900
 ttccacacca ccgaattgtg acgtcaggag tggcagagcc ttctgtcgta tcttcaagat 960
 ttcaatgagc tccagcttgt cgcggaaagt caacttcttg caagggcata ggtcaaccac 1020

accggcaaga tcacctagta tgcacatccg cgtctcggca ttgcgcctca attgtcgggg 1080
 ggggaaagca gattgcgagt gtagcttcag gcatcttgaa caggctcgcc aacgggcatc 1140
 ctcgagtaac ttgatcagct gccatcgagt tgtagcaaag gtatgtccat tgcgataatg 1200
 gtggaaaaga ggagcaaaat cgcgactgaa ccgaagcgat ttagattcta gaacggtggc 1260
 ggatattgag agaagtctct tgcagggtcaa cgcaagacag gcctgcggta acaccgttaa 1320
 atgtgagata atttcagta gtaactctgt gggaagttca agaaggtagc ttcgcttcgg 1380
 tggaccgggc tccctagaac gcgcttctat ggcgtgagat gggcgattct tggatcatgac 1440
 ggcccttagt ttaatcccag cacggcgaac actatgcatt ataaagctct gaagtacgcg 1500
 aaaatcggct tgggtcgtgg tccgagatat aagactccga aacaaagacc ggtgtgaaat 1560
 gcgtggcgaa tcttcctggc aaagtctcat gaggatagga gcgtctattg aaaaaattg 1620
 gtgtgtgcat gttctgaggg aacatagtgt ttaaaaggca aatggcgcac ttgcaccgcg 1680
 tgatggagtt cgacatgata agagaagatg gagggcattt tgactctcaa gtactgaaca 1740
 cagatggctg tccacttggt gcaaacggca cgcgcgcggt cagtgtggtc agcgcggtcc 1800
 aggtcgggaa tggctttctt tgtttagccc cccgcatgcg ccgtgctaac agctgttccg 1860
 agctcgaggt atctggaatt ggctcgaatt gatatccttc taatttcgga tgaaagctca 1920
 ggattgttag acctgttggc gcagtttgag gcgtcccata cgagccgcat gcggaaagcc 1980
 ccacaacagc ttcaattggt actatcacct aaacaagtac agagagagaa ggcctatca 2040
 ctacgatgta agcgggtctac tgcacatttc aaaggaagaa atatcgctg accgtcactg 2100
 cgtgcaccag agacaaattc aagtcaggcg accggcgtcc cgctgacatc tgttttctgc 2160
 ctgaggcata aagagctgtc acatggccat gagggacta acaagataaa aaagatggtc 2220
 tgaagccgca aattcgaatg aacgctaaac gaggggtcga acgtatctca cgaccctgag 2280
 aaactgattg atgactgaca tagtccgtgt atgggtctgc ccaaggggtga gagatatcac 2340
 gtgatcgctt gccacaagct gacgcagtac tagagcaact cttcgagcat ctagggtgat 2400
 aaatttatac caaaaa 2416

<210> 1845
 <211> 3493
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1845

cacccgggtc gcatggaagg cgaactggtc gcctttccct tgacgatccg cgttctgcgg 60
ctatcaatgc tatttggggc acttagagac ccggctatag ctcaccagcg taaacatata 120
tgaagcaacg accgcttagc aagtcttaga tticattccc attagagtca aggacttaat 180
tacatctata attccatttg aactactttc ttcgataaat tcccattcgt catacccagt 240
catcatggtc ggtttcgata tgcacgggtt gacgcctgcc ccagtcacgc cgttcactcc 300
taccggtgag atcgactacg acgctatcca acggctggga agctgggtca gtagtatgaa 360
cggcgtcaaa gggctcgttg tactaggcca cgcaggggag ggcacctttc tgactgccga 420
ggagcaagtc gcggtgatca aggcatttgt caagtcagtt gacgacaaaa tccccatcat 480
cgctggcatc accggcgaag gaactgaggt ggcggcacta gaggcgcacg cgtgaaagct 540
gctggggcga aacgggcctt ctgtatccat ctcacggctg gctgcggttt ggataccagg 600
acggagcacc ccaggatcgc taccgccgtg tctacgaggt cagcaatctc ccattgattc 660
tcttccagta tccagacaac accaaggcca catatagctt gcagacgatg ctcgatatcg 720
ctgcgcaacc ggggtgtctt gcaatgaaaa acgggtgttcg aaatatgcgg cgctgggata 780
cagaaatccc tgtaatccga cgcgagcggc ctgacctgca gattctgagc tgccacgatg 840
agtatctgct acatactgcc tttgatgttg acgggttttt ggttggatat gggaatattg 900
cgccggagcc gctgattgag ttgattgagg cgggcaaagc caaagactac agaagggccca 960
gggctatcca cgaccggctt ctcccgggtga ccaagagcgt ctatcacctg ggatcgcaca 1020
tggaggggac tgttgctttg aaacacgcat tgggtggccc agggattctc tcacacgccca 1080
ccgttcgatc tccgcttcgt ccgctggagg ctggtgctga gcaggagatc catgctgcaa 1140
tcggcactgc tgcattagga aaggttgcat agaccgttat gttccttagt actgtgtata 1200
tactttcagt cagtagcttt atggcaccca atctgtttta gcttagttgg tcggagcatc 1260
cccggctgca gtgccttagc ggattaagcg gagactagac cgaggtcaat gtcggctttt 1320
cctgtgcaa atacataagc agactatagt tgcacatctt ttggggtaat tctctgttca 1380
aagtatgcgc tttctaattg gtagctttac cgtgattgat aactattcct tccatgtcag 1440
attctcatag ttcagcttgc tctccgttcg agaaccggag aaaggacccc aaagtcagtc 1500
gcgcctgtga ttcgtgcaaa gcaaagaaga tccgctgctc ggggtactcta ccgtgcaata 1560

tatgctccag aagaaggttg agttgcagct atgccagtcg atacgctcgc ggacgtccac 1620
 ctactcctcc accacacaca cagagccatc taggacgaag tacagatagt gggcgagaac 1680
 tgactcccaa tatccagaca aatgccgcag agtcacgcgc aacatctgag ctggtaatcg 1740
 aaggccagta ctttgacctt acgtcgggcc tcagctttct gcaccgagct acgagtaagc 1800
 tctcggcgca aagggggcaa tatgttgccc atggatatct cgacgttcaa cgaaaccagc 1860
 ttcttgcgtc agcaggagac caaccgttct atcagggtga ttccagtgcc gaggcagatg 1920
 tgctgccgga tgacgcgaca acccgggaga ggctgtccct ctatttcgat acgtgcgtgg 1980
 tcacgtaccg catgcttcat cgccagaccg tagaacggtg gttagccagc atgctgcaaa 2040
 acagagagca gggccgctct atcgccaact cgctgggaaa cgcccggtaca gcgagcatcc 2100
 tggccatcct ggcaattgca gaccttcggt gcttcaagct caagcgcaag cacagcaata 2160
 gcgccttgaa tgaccctcag cttgagtctt gcggtcttcg cgaaagcgac cctcttttct 2220
 acgcttcaat gatgcgtacc gagtcggaaa cagggtttcc taccctggaa tccgtccagg 2280
 cgcggtgct tcaggttcta tatctacttc agacggggcg catgaacaaa gcgtgggtata 2340
 ccttcggcaa tgcattgacg atcatctcat cactgggtct acatcggaaa cagtatcggc 2400
 agcataatgc tcttggccca caggcggact acatcgagca gcagtgtgcg aagcgcgctct 2460
 tctggactgc gtacacgatt gacaaatata tcagcgttgt tcttgggcgg ccatgcctca 2520
 tacataatga gggaatcgat caggaatttc cagatctggt taacgatgag aacacggggc 2580
 cagacggacg cctgacctct gatgcgaggg aggagtgtca tgtctcgtct ttgatacacc 2640
 atgcaaagtg cgttctcacc cgatttgag ggctttgggt gaggttcaac taacgtgcat 2700
 gacagaatcg cacagctcat cgggcgaatc tcgaccgacg tgtactataa aaatcaaaca 2760
 gaccatgcag ctgccgcaa tgcctcgtg cgtgagctgc aagagtggcg cgcggagctc 2820
 cctccccatc taggcactgt caagccatca acccttattc caagtttcg gcgcgaggcc 2880
 acggccttgc gtctggccta ttgccatgca ctaattcacg taacgcgccc atttctgctg 2940
 ggcgatggga agcacagttt tgacaacgat ccggcatccc ggaccaaata atccgagtgc 3000
 ttgtctgcg caagaaatgc tctcgagttg atcggtagca ttgttgatga ccatgagctg 3060
 tcccactctt tctgggtggac ccagtacgtt ctgttctgcg cacttgagct tgtgtatgta 3120
 tgggagatcc aacggaatac gcatcaaagt cttgaggaca gcggcggcct gacccatgca 3180

tctcacgaga ccttgtttga actggctgag agaagcaggt cctatctccg gggcggcgct 3240
 ggttcgctgc acctctccaa cccgaactcc cgctacggct tgattctgga ggaagtacga 3300
 ctggaggctc aacggcaggt gtcacagatt cgaagtcgaa gtactcgtgc tacattggga 3360
 acggaaaagg aggcggaaaa taggcgcgat gaggcattgga gcgaccaacc aaagccaatt 3420
 ccagggtcaa atgatgaact ggacatcact acaagcgcca ttcgcaacgc tggctccagt 3480
 ataccgaaag ctg 3493

<210> 1846
 <211> 5011
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1846
 cttctcgttc agtcggcact gaatcttctt ggaccccgtc cattttgcca ggcgcgtcag 60
 catcagcttc tgcctgcgct atcctgttct cctccttcaa tagcttccgt cgtaacttct 120
 cggccttcat tttggctttc gcggctgcat cggcgggata cagggcgact cgagtctgct 180
 ctttcttttc ttggtccttt gcacgggtag ccgctgactt gcgagcttcc ctctgctgcc 240
 gttgagcttc ttctctggct ttcttcgctt tctttgcttc ctccatagct ttctttttct 300
 cttcaatttt cgcttgggta gggaaacgct tcttgcgctc tgcgatccaa gctgcgatat 360
 ctgcagatgt ctgcagattt gatgttcgtc ctttgtacgt gatttgcaat gctaccccag 420
 tgcctggggc accggatgcc aacctgggtt cctcatcggc gtcacttcc tcctcactgg 480
 actcgtgctc ctcagcttcc ggggttaacc ctacgtgggt atgcttccgc ttcttcttct 540
 tgggttttctg ttgcgaatca accggcgtag cggtttcaaa ggcagaggat taccggaact 600
 agggaccgga ggtggcgccg ggaatcgtgg agctgtcgac tgaggcttgc caaatgctga 660
 cgtgtggctg cgcttgttct catgtttgcc gggagagctc tgattattat aggtgttggt 720
 ctgacgcggt ccccgttggc tgggacgctg caatcctgga aatgagcctg aatgtcctgt 780
 gccctcgaaa cccagcgga taggagggcc catcattgtc ggctgcaccg atggcgtagc 840
 attttgatga gcaggatgtg tttgagtgtg tggaggggat tgttggttag gtgttgcata 900
 tgtagtacca tagcttgatt gatgctgata agccgtgcca ttaacggcag gttgcggata 960
 atgcgacgta gaggcgaatg tactcccagt cacggcattc gaaaaagcct gcgaagacga 1020

ctgcgtataa tgcggcgctcg gaatgcctgt ttgttgattt ggcatatggt gagctgggta 1080
 ccctgagtgt gtcatgggcg catatccagc atgagctgcc gcgtagccgc cagagtgatt 1140
 ggcatcggag ctcatgaaat gacctcctct acctctattc ccgtagcctc tcccacggcc 1200
 cctgaattgg ccacccccgc ggccaccccg ttgaccatgg tgattctgcc catacggcgt 1260
 gaacgcattg ttatgagcgt attgttggtg cggcggatgt tgtgtaggag gcgagggtgg 1320
 agggggaggg aaggagaatc cctgagggtt catggcgggg agatctcggg cgatcttcag 1380
 ggatagaaag catgcactcc atcctcacag catcgtaaag gttgcgacaa agctctgcag 1440
 ctcaaaagtg cccttcatga agcgggtcca agcgagtagt tcgcccgtc cgatggcaag 1500
 gaatagttag actggtcacg tgcttaatgg ccagctaaaa aaaaatcgag caggttctcc 1560
 ggctgcgatt ggctggagga catggcatcg tgagtcctgc tggaggtttt gggttttgag 1620
 ctcgagacaa aagtatcggc atggccagat gagctttaat ctatactgtt tctgaaactt 1680
 ctgtggattg aattctgaac atgggatctg cattcaatca aacctatcct ccgctgtgat 1740
 acctgaaaat cgagaattcg ggccctgttt tccgcgggtc cttccaacat catgtttatc 1800
 cttgtgagta gaattaacc agtccagacg gggaacagat gcttaccggt gctggcagac 1860
 caccatctca gatcttattc agatttcccc agaggatttt tcaaaatata gttccgttgc 1920
 catcgaggac aacattaatg aaaagtagc caacaaagta agcccatctc gatgtccctc 1980
 aggttcacaa ccctagtctc ttaaaacaat tttgctgact ttactggtag gtcattcaga 2040
 agattgggct ctgtattggt ttctatgatc tcttagagtc atcagatggg ctgatcggcc 2100
 atggcactgg gctcgtcaat gtgaacggtg agctagccca gtctccatcc cgatctttca 2160
 tgatgttcta gccgactgac atatactaca gtgaagttcc ggcttattgt gtttcgcccc 2220
 tttagggggg agattgtgct gggcaagatc tcaagcgcta ctgaaaatgg cataaaaagt 2280
 aacgatgggt cattccgtga tgacgctgta tgctaattca ctggcaccag tcggcgtaga 2340
 atttttcaac gacatttttg tacctccaga actccttttg atggcgctag attgtgagtc 2400
 tcacacagtc tttgcttggc cgtggctgac gtgaagcagt gattaccagg accaggtttg 2460
 gatctgggaa aacgaagaag ggacgttcta cttcgatgta ggagaagttg tccgcttccg 2520
 cgttgaaatg gaagaatggc atgaccagat tcccaatgct cctgatcttg gagatggcgc 2580
 tccaattgac cgcaagcctc cgtattctat tattgtatgt acagatcact ggaattctgg 2640

aatatgccct tctaattgaa tacagggatc tatgcagatg gctggctctgg ggccaatatc 2700
atggtggttag agagtgtttt tgataagatt tgtagagtaa cgccacggaa gcaattgtgt 2760
acattggtat ctgtgtttga atgactgtat gaccgcata ttagactacg aatgattcat 2820
attatatata ttgtacagcg aggtagaaca ctacgtctc cctcgggttc ctacatacgg 2880
tgtgtcagat gaggtcga aaatgacgtg ctcaagggcg ccgaacgcga cacggccggg 2940
cctcaacaga tgatgaatgc gccaggaaca ttctttttca aggactaatc tgagcgacat 3000
tgcattagtg cgattttgat gtatggctc ggttatcgcc ggaacgagat tggacagtag 3060
tcacaataat aacagtcaac gatatacaga ctctgtttag atagtggagt cgagtgtcag 3120
tcatcgcttg attgcgggaa gcggtgaacc ggatcgagct actatacgtc gtcctgagca 3180
atgcaacgta aaagaaacct ggtggaggaa aataatccgt aggcaggcaa attccattat 3240
aaatgctgag aaccttctcg ctggaatgcc ataattattc agtttatctc ggtgacgaaa 3300
agattatcat taaaaatcag cggctgcaaa tactttgtag tacatataac ctgaagccgt 3360
taccagccat cgagcgctgg acatcatttt gttatcgttt gacacatctg ctggccaagg 3420
ggtagaccgc cattgcattc tttagcgct cgatcccttt atttttctta tttgagagct 3480
ccttgggggtt tctttttctca gtcccgtagc gatgacgatg atggcggggac atccagatct 3540
cccctccaac ggccagaacg gcgactcgaa cacacatcag cagcgccaat ttgcgactct 3600
ggccgtccat gctggagctc ctacgatcc caccactgga gctgttatcg caccgggttag 3660
tctgcgcttt tgagacttcc cattttgctt ggaccagcgc tgactgtgac agatatccct 3720
gtctacaacg ttcgcacagg aaagtgttgg taagccggta gggctgtacg aatacactcg 3780
aagctcgaat cccaatcggc cagtacaaga tttcaaatta aaaattcagt tgaatactga 3840
cttcagccag agacaatttt gaagaggcgg ttgcttcgct cgagcacgcg aaatatgcac 3900
tagcattctc ctccgatct gcgacgacgg caaccattct cactcgtta gtcctggct 3960
cgcatgtcgt ttccgtctca gatgtatatg gaggaacaca cagatatttc accaaggttg 4020
ccgcggcaca tggcgtcaat gtgtcattct cctcgtgctt ggaattggac gtggagaagc 4080
tgatccggcc aaacgagact aaacttgtct ggattgagac tccttcgaac cctaccctag 4140
cgctgggtga tatccgcaaa gttgccgcgg ttgcgcacgc ccatggcggt ctgggtgtgg 4200
tcgataatac cttcatgagc cttacgttc agaatccatt ggatcacggt gctgatgtgg 4260

tgattcactc cgttacgaag tacattaacg gccattccgt aagccacctt gtctccggtc 4320
 ctttcacccg tgtgctaacg atccggtagg atgtttctgat ggggtgttgca gccttcaatt 4380
 cggacgaatt gaaagagcgc tttacgttcc tccagaatgc cattggggct gtaccatctc 4440
 cattcgattg ctggctggct caccgtggtc tcaaaacact gcatttgctg gcgcgagaag 4500
 ccacagccaa cgccacggct gttgctctag cactcgaatc ttcacctcac gtcatatctg 4560
 tgaattaccc tggactcaac tctcatccga accgtgaaat cgccgtcaag cagcatcgca 4620
 agggcatggg aggcggcatg ctgagtttcc ggatcaaggg aggtcacaag gccgcccac 4680
 tgttctgtga atataccaag atcttcacac ttgcagagag cttagggtgg gttagagagtc 4740
 tctgcgaagt tccttcaagc atgacccatg ctggaattcc caaagaagag cgagaagctg 4800
 ctgggtgttta cgatgacttg gtccgcatga gctgcggaat tgaagatggt gaggacctga 4860
 cggctgatac aatgcaggca cttgagaggg ctgtggctgc aagccaggcg ctggagaacg 4920
 gaagtgcttg attaaagacac aagtaaactt gacgacggta gagcaataga gccttttctg 4980
 ataggataga ctcatgtcga atacgaagtc a 5011

<210> 1847
 <211> 2199
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1847

gcaaggtaag ctttcacgtc tgcattgtctg ctcttactg atgatgaaac tatagctgcc 60
 atgaggcttc gtcagctcgg ttcaacgcaa tccgtaacct tcatcgcacc gccagaagtt 120
 catcagagca tattgcacgt ttgtaataag acctcgaaag ataaactgga ttcgtctgac 180
 gtcgtcgttt ggctgcttga tcagacgtgc gcagtcaacc tcgagctctc gcctttgtac 240
 tttgcccagg gcaaagactt cacttctcga ttgcaagcag cgacagcgca caaatgata 300
 ttttccaatg ttgaacacag aacagcctac ctgagagttc tgcagcaacc cgaacagcaa 360
 accctcgagc aactatacga accaacctac cgcgaaagaaa ctgcatcgtc gttatctgtc 420
 actacctttg cctctgcggg taaagtgggc aggtctatgc aagcgctgga gaagcgacga 480
 ctggagtctc ataagttggc gtcggctcatt agttcagctc ttgagcaagt agaacaggaa 540
 cgcggaagtgg catatgagat tgaggaggaa agagaaatac aacgccctag tcagaaaaag 600

gccctgcgct ttcccggctc gcatgagtc atcttgaatt ttgccaaagg agaaccctt 660
 gggctcttggg gcattctatc agcgtctgaa tggctggaaa agacgcacct tggggagaag 720
 tacaaaatcg aaggctcctc gctagtatcc catctccacc tttctgcgga gttttcaagg 780
 accgacaagc tgaagaattc agagaaaagc gatacctaca tacggcccgt gaattgggtg 840
 ctttataata ccgttactga gacagctctg gtgattatta gtgaggaagc agaaatccta 900
 atcccaatca tgagggttc tacttctcga accactcatc tcatcctcta tgcagcgccc 960
 tggaccaa atcaatgctgca ctttaataat ctgacttact attcgctacc cagcctccgc 1020
 gatggctgga ccccccaac ttggctcccg tttgagttag gtattatcgc aggaagactc 1080
 tactttcctt tctcagagta cgaagatgcc tcaaaccctc tttattcgtc cggccgcaac 1140
 ccagacggtg aagatgaatc gctggattcc tgggccaaga accaccttaa cttcttgcag 1200
 gaatggctcg caatcagtcg tcagggccag gacgttaccg ataccccgat gggtacatc 1260
 tgtcaaaact ggccgctgcg aaggagcac cccttttttg ctacaaggag tgcccaggag 1320
 ggtatgaatg cgcctggact ggagtgtctt cgatttacga tgtcagatca ggaggaagag 1380
 tactatagta gtgatgaaga tttgatggaa gttaatatgg gcggtaatgt tgatgatgag 1440
 gtacatgggg aaaatgttgg aattgagtga tggacttgga ttgcaaggta ttgagtatcg 1500
 cagtgactag tactggctgt gtcataattgt tcttctagaa tgtttatact gtatttcatg 1560
 cgcgttgtgt acgtagatag atagtgaag agaagttaga cgcctcctcg tgagggggct 1620
 gtgtctagat tttccatctt gtgcctcgt gctgtaattt aactccagtc accatcagct 1680
 gtgctagtgt gcaagtagaa ttgcgatgac cctctctata gccaggctga gcaatctgtg 1740
 aagatcatta gagctacaga ccagcaccat cgagttgatc cactgatgga gaggaaccg 1800
 tgtcaagata ttctaacgta atgtgctgag atcagagatt accataactc tatatctgca 1860
 ataatctgtc agattatgat aaaaagtga actggctatc tcaaggcaac ccatggctga 1920
 tcttgactcc aataaaattt cacaatagat atgttcaaga tcccgtcatg agtatagacc 1980
 tggcatgaag aaattgtttg tcttatatac cgtagcaact gacaagctgc agaagcttcc 2040
 caagctgaaa gaggtgcca cgaagggcaa ggaaactatg gtcaatcatg atcggacgga 2100
 ctttggctaa acaatcgaac tccgtttgat tttctgact ggatacgatt cgtgatgatg 2160
 ctgttgaatg aaaactaacc tggtttctt gctagttca 2199

<210> 1848
 <211> 4770
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1848

```

aagggtgtga atatgagata gtattagttg tagaaaacgg ataaggaata tattatttaa 60
gattaatgag taaataatac ggagaaaaat ataagtaata gtaacagtat aaaatagaaa 120
aaaacataga acattttaaga tagagatata taaaataata gataaattta ctacaattga 180
gaaactaata attagacaga tttaatgaga gagatataaa ataagaacaa ttgggaacta 240
aaagcgatac catggagagt agaaaaaaaa gcataaatta gatacaacca cggatagagc 300
atatagtaaa ataatgagta tagcaatcac gaatgaagaa ggagaccata taggggatag 360
ggttaccctt ccaaggggtg attctataaa agtggatcaa taccaaggtt cctgccccaa 420
acaaacggac ggcgaaagac caaaacaaat gttgcattaa gttgcccggt aatcctatct 480
accaccatgg atcgcatctc tcgtgcttgt ttaggtcatc cttcctcaaa cacgactcga 540
ttatattcta gcattagcgg gcgtagtgct ttttctttgt ctttcgaacc tctgaccatt 600
cgtgttcata tttcattact ttaagtcgac tagagcgcgt ttctatctat caaacggaac 660
gagacgtcta gtttaggata aacatgatac caggtagata gatgtgcatg caatgattca 720
atcattcatt cgtatactcg taccagaccg tactatacca gataacagcc caagatgctc 780
tttctaaaga catatatggc ccagccaggg ttgctagatc aggtctttct gcgtcatctc 840
gtctcgtaaa gaatcaataa caggcgaaaa acggccggat tgggagatag caacacgcaa 900
atggggtaga taggtgaatg gaatgccacc ataaacaaca aacgggtaat atgcagagaa 960
cgaaaagaga atagaatgga atagaatgaa gagaagacaa aaagcgaatg atatgacaag 1020
gcgtctagtg gatatcaata actttttccc ttctctcttt tagcgttgct cttataaggc 1080
aactccccac acccctcgcc ctccacaaac acctagccaa tcgcgcgggt gaccagcact 1140
tgtggttctt ccttgcggcg accaactgat gtttgagatc tcgtagtcac attgccatgc 1200
agctgcgggg ccacgttcgg tagttgtgga gggggcacct ggggtgtgga cgccgggtgg 1260
aacgggggtg gtattgtgct ggttgatgag gtcccagaga agaacgaggc agtcatctgc 1320
gccggaggca agaacaccac gccggttggg agaccattcg acggtattga ggggcgctga 1380

```

gtggccctta agttcgagga gagcttggcc tggttgccgg acgtcgagaa ctcgactat 1440
 gtttgaatct tgggagaatg tcgcgagaag gtgggcatcg tgaggcgagg ctgcggttat 1500
 gagtatagtg ttcaaagtgc tttgggagtt ctggggctta ccggaatgc gcagcagtgg 1560
 cgggggccaa gtggtagtgt gtgcggaggg acttccattg ccagggtca tactaatgg 1620
 catggtctca ggcgcaaaaa tcaagaagca ttgtcatgta tagggcttac atttctcgtt 1680
 cttctccgtc ggctcgata tgatcggtgt gtgttccagg ctccggagat caaacatgcg 1740
 cacacttcca tcagcgccac agctgacgaa aacgtcaacg ctgttggcgc agaaacgcac 1800
 gtcgtacact tccttgctgt gtgcaatgag ctgctcttt gccgtcaatg tgggtatatc 1860
 ccagatagtg caagtgtgt cgatgctgga agtgataatc aggctgggag atatcgtatt 1920
 ccagtccaga gatgtaatag gagcggtatg ctcgggcgat ttcgaattgg aaagcaacgc 1980
 cagaggcgag agtttagctg caggcatatc tctctgacct gacggacgtg tgatagagtt 2040
 agagctgtgt tgaggctgcg agtttggtta tgaccataac cggagatgat ctccagaagt 2100
 ggctagaagg tcagtggatt gcttctggga cgacggcggg tcccaaagaa tgcgtgtaac 2160
 aggatatgag tgggtggcct cagcggatct cactattcc agcttaagct cccgggcact 2220
 ggcacagga gtatcagggt cgggatatgc cagggtgagt tccaggatct gtatctagat 2280
 cgggtggttag aaataggtga caagcgtatt aaccaccatt atgaataaat cttacataat 2340
 tatgatggtc ttctagatag cttcccagag cgatttttcc gccaaaggaa ccaggatttc 2400
 ctgaaatcgg ccacttgac cagtcaacag catagatggg ccaaggggta atgtagttgc 2460
 tgttttagg cacttggtt tcgacacttt ttgaagcagc tgcacccgcg tttgtagcat 2520
 gatcacggag aagatccccg gaaggccgaa tatcagccag gccagaggc gagtatttag 2580
 cgccctgggg agttggcggc tggaatgcag cattcgaga cgacccatgc ggctgtatc 2640
 ctgccgggct cgacctggag tgtccatggg aattcgccgc attggaacgc ggagtgggtg 2700
 actggggctg cggttgaggt tggtgctgga tctgtgtaga taaatgaggc aacgttgga 2760
 ttgtggacgg ggctgtattc atggatactg ttggtggtcg attggcagaa ttgccgggtt 2820
 ggagagagcc aggaagcgtc cctcctgtaa cgccccgct tgcgcctcca tattgggttag 2880
 actgggaact tgaagaatgg atgtttatgg atggaagat tgtatcgggg ctcgtaggg 2940
 attcgtggga cattggctgg cgcgatgac cgctgatgt agagtttccg gccggaatgt 3000

gaagctcttc cggttgacgg ttataaatag tcgaccgtct ggagtcgaac ggctgcgcgg 3060
 ggtttgtcat cgcgatggcg gttgtagaag ggaggatagt ctggaaaggt aatcgccgca 3120
 ccactgcaaa gcagcgggct ctttacagcg caaactcgtc ttggtcgttt ggtcaacacc 3180
 actgtggccc tggttatagt tgggtccgtt gagagactcc ccccttctta atggatacgg 3240
 gcagcaatcg gcacgcttgt gaaagcactt agacgcgaca aggacgcgaa cctgggtgaa 3300
 gccaaacgaa ggaccttgca gattcgacca gattgcaatt caacaatgaa gagtcggata 3360
 cgagtcaaag tccaacgaat ggcgtgcagg gtgagccaag ggagacagga agtggaagag 3420
 cttcttaggc tggagtctct gatctccacc tgagctagag tcgagtcgtt gcccgcgatg 3480
 ctgagtcagc cgtttgcacg ggacggtaag attgaactca ttggtattat cttacccttt 3540
 aggtacagcc tccgcttcct cggctgcttt tcgtcgtgct cggatgctat ctggttaatt 3600
 ctgattccag cctattttcta gttctttgct tcctcttact ctcataaagg cctgatcggt 3660
 tgtgcattct gagtccctca ctgcagccg tcattccatg acctcathtt aatacatccg 3720
 tatcggctctc gtttggtagag cctcttcccc tccttatctt gagcttcccc gcgatgcctt 3780
 cagatcgcat caccacacca tcggctttgc ttctactgcc gctcctcca attgtatctt 3840
 tcgatgaatt ccgaacagtc tacgagccag tattatcttc ggtcttcgcc aacctcttaa 3900
 atgcgctcaa tggttcaaatt cgcaccgctt ctttggatat tgcactctca ttgcctggtc 3960
 tcctgtcgcc atcatgtcag ccgccgacga gagctttcgc gagccttcaa cgcatagtgg 4020
 aacatatgta caggctcatt ggggtcattt ccattgaacg gaaaattgaa atggaggctc 4080
 ccggtggcat tgactcgcgc gtgatcttgc tggatttcga ctctgtccga ggaacaccag 4140
 ctacagctgc taactctggg ctggtcgagc gcaacggccc gattgttgat ttgaaaactt 4200
 tggctagctc cgggcgcctg tgggataata tttactatcc ggaaacctcg gtaggccagg 4260
 agctggcgac ggcgtttagt aatatctata cctcaaccaa agaccccaat ggcggactgc 4320
 cgcagtcaat ttcgggatcg cctcaatgga ctccgggtca atctttggtg gattctgcgg 4380
 gatcggtcgg atctgccta catcactcag tcattctggg aggcaccttt gaccactttc 4440
 acatcgggca caaacttttg ctacggcca ctgctcttgt cctgcaacct gcgggaactg 4500
 gcccgaccgg ccagaatagg accatcacga tcggtgtgac gggcgatgag atgttgaaga 4560
 acaagaagta cgctcagttc ctggagagtt gggacgagcg gtgtcgaagt acgggcgcgt 4620

tcttgacctc gatcatggac ttcgggcctc ccgaaacaga gcttgcccac attgagcgaa 4680
tctataatcc gggaccaaac gggagacaga tagtgatgaa gatcaggcct ggaataaccc 4740
tgaaaatggc gcatatacat gtaccgtagg 4770

<210> 1849
<211> 2353
<212> DNA
<213> Aspergillus nidulans

<400> 1849

aagtagagt aaagtaatta agtgtaggaa gatgataaga tagagtggta acaaattgtga 60
aggcgagaat tagtaggata tgatgaagaa gatagtgtga gaggaaagt aataaataag 120
tggaattag aggatagatg agtggtgaag tgtgaaaagg aagagaaagg ggggtagaga 180
gatgaagacc aggaatgatg aagaggaaga gaagggtgga acagaagaag tagatataga 240
gtaaagagga gactaataag cgaagtgtag atagagaaga gtgtgaaaaa taagttgagt 300
aataaagaga taataggga tatagagatg aaaagagaag gttgaatagt gatagcattg 360
aaagagaaat gaataggagt aaaaatattg aagtcttaag agaagggaga ggatagaaag 420
aatgaggagt atagaaaagg ataagaaatg atgatggttg aaagaaatgg attatatggg 480
tagatgataa gaaaaggaag gagagataag tagtgaaagt ataaaagggg gaagacaggt 540
aactaggtgg aacaggagg atagaaagag ggggatacat attagaagaa agataaaacc 600
ctataagtcg atttaagatc aagttagacc gtggtttaag aagtcaaact agaggtcagg 660
ggggacataa tgctcctcaa gagaccgatc aaagtattat ggctgttccc aatcctcaa 720
tgctgatttt ctacgactgg atatatggaa gatatgctgg cgtctcaaaa ggattctgct 780
gctgagcggc cgttctcatc tctaataaat ggcgagacta tatagttgtt gggcttagct 840
gcatggcggc tgctaccacc cagcagaggt tgggtcagtt atgccgcttg aagcacgcgc 900
ctgatgtggt gtaatgcaaa gtgtctcata gcggctctat aactagacgt cgcaagcatt 960
aacctgaagc cagaatacca caacatcttg ccaatcgtag aacgagaata atttttcgcc 1020
cttgaactaa atccgcaata tggacgggta ctgagaatcc aatacctcgg ccgtaggaat 1080
ggaaggccga gaatcacgac gtaatcctgg gctagtaagg ccggccacgc aactccgcc 1140
tctccagagc aatgggacgg ctgcttgctc tttgcttcag ctattgtcct agagggcagt 1200

gccagatcaa tggatatgctc tgatagtcag atgaagcaag ttcattcctgt ctgtcaaaga 1260
 tcaactgcgt ctaataacttg ggcccgagcc gtgcagtcgt tattccaaga gggatatcaac 1320
 aagtaattat ctctatcgat agcataaatg tcatgtagct tgtgcggtag ttcgaggtca 1380
 aggctggcgc tgtctgtcgt cgatcattat cgacgctttg agcgatcttt cgcgcttgga 1440
 cagcgacggt ctatggctga gacgcctggg caacgaattc actaagggtta ggtctcgttt 1500
 ctggagagtc agccctccat gtctgccata aggtcggcga tgttgccgct cctggcgtaa 1560
 cccctctcat tctgttgagt tgatacgtct cgatagtc aa ttcttgccga gagagactaa 1620
 tcttcatctt tctgctttgg ccattacggc tcaagaaatg caactctccg tgggtgtggat 1680
 aatcaacgtc ccaggatacc cgttcttttg ctctcctgtc agctgtgtcg cggcattgca 1740
 gtggaatcgc cgcggctata tcaagcataa tgacatgagt aagtattgca gaaacctcat 1800
 cctggagtcc gacgtggttg gggggctgca cgtcagggtta ttgtggaaga ttgactgaga 1860
 gctcataaaa tgtaccaa at ggccgcacag caaggctcgt tcggatttga atgcggaatg 1920
 agctctgtgg cgtaaccaga ttccctgaga atgtcgacaa aaaaggcgca aggaaaaccc 1980
 ctgccactgc ttcaaccttc ggaacctgat tgcttggtg tagcgtgcca attgaagaga 2040
 actgagttgc cttgaagtca cagggaatgc cagcggactg gagcacaccg cggaggtcgt 2100
 ttatgagcga ctctaaccat tggatatgag acttgtgctg taagtaagcc ataatcggcc 2160
 gtagaatgtg atattcgggg accggctcggc gcttcggagc tagtggggga gggggttggtg 2220
 tctgcgacg aagattctga cgggtggcgt atgtaagaag tatacgaatg gagtgagcga 2280
 cagcatcggc aaacacgtct tgctcagtg aatcagctgc atcggggtga cgatcctggt 2340
 aacagtcgac ccg 2353

<210> 1850
 <211> 2475
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1850

ttgccagtca tgtaactgag gaatttcata tagctcggcg gtgcaagcat tgcacaccag 60
 tggtaactgac caccagaagt cggcgccctt gcaactgtcag tctccacttg caatgcgagg 120
 ggggtatata cattgaggcc aattcagata ggaccgcaaa gcagcacgcg gtgcctgtcc 180

aggcgaagat gaacgcatag acggctcctc cgggaccacc actagatcag acgctgtcaa 240
 ttgcttgtct tccaccacgg gtaccgggtt tcgcgttact gactttgaca gaggtagtag 300
 caaagtgctg gcgagcaagc aaagccatta gccgaggaca taatgcacgc gaggggggagc 360
 tcgtacttga atatcccttc ccatgtcgca aggatagtgc agctgaaacc gaggggtggat 420
 agaattccga acgttcgctg ggcggaaatt gtaagagcag gcaatgagag caaagggcag 480
 atcggtcctg gacactctac tctaccttca aaaccgattt cttccccaat cgcgccagtt 540
 cgctgacgtc gcggtcctgg accgtgacgc tggccgcgac cgcaccatgc ttgagctcct 600
 gtgacgccat ctctgtccac ggctgcgag tcgtttacct acgcatggcc agacatgccc 660
 gggcatgcct caatttttaa gtcaaagggc cggctcgcat gagcgcgagc atgttagcca 720
 ccttcgctcc aggtcttagt cgcattaata taaaaccct gtcatcccct gtctgggtcca 780
 ctgtgtgctt gacggccagt ctcggttga caccaagctt agcgcaggct tccattgctt 840
 ctttggctct gtccggctat cggcgccggc tgcaacgcc a tcttggccta aaagcgcgaa 900
 tggcctaggt gggatgaatca tacggcatgt tacgcgtact gggccagacc gctggcgctc 960
 tggaatgaca cggctctttac ccatcgaga tttagctaga tctaaacctc ggtggctcgg 1020
 agaatttgac ttacttatgc tctgtatttg cttctttatc tcttgaaagg gtatcttagt 1080
 actacgaagc caaccgagcc gataagtatt gcgctcaagg ctggccacgc ttatagggca 1140
 acacgttaca ctgattttta ccaccgtctc atcctggccg aattctctag cactagtctg 1200
 cgccctaaga gtttgcttgg ctatcactcg ctcagacccc ggtcgatcag ccgtcctggc 1260
 gccagccgg tgccactcc gttacgcgcc gcgtcttggc cagcataggc gatgcgatcc 1320
 tttcatttag tctgctgtgt gtgggtatt agacgatcgg ggcggggccg gtctgtccag 1380
 agtacaggac agggccccga gtggcagtct tttgtgaatg attccggcac ggcgcagggt 1440
 gggatccttg tccctatgac atgatactgc tttatcaatg ctcacgggt cggctctact 1500
 cttacttttt aacattaaat ggtaagcaat tcctcgtgcc gatgccatgc gccgatgcca 1560
 ttcccagtta atgggctga ccagcagcca tggggagatt cgctaacatc gacacccgag 1620
 acccagacgt tttcgtgacc acctggttcc tggcgttgt tgctgtgctc agtgtcctga 1680
 ttcgggtggc gactaagtgc agggctcttc ggcagttgac cagcgatgat tatctgataa 1740
 tcgcagcttt ggtacgtatc ccgcactggc aaagggaacc cgaggatatc taccagtg 1800

tcttcagtat cttacacagt ctcgtcacag gctctttgca ttgcacagtc cggcgcgata 1860
 tccgctgcag tagcgcacgg gtatggggac cgattcacga ccgttgcaag tgcggatttc 1920
 gtccaggtca tgaaggtata tatacggggc atttcattgc tgagtacctg atcgacagtc 1980
 ctaggcctga ctatactgag accgctgcc a gtgccagtac gctgcctcta tctgtatat 2040
 cgcaagcctc tgctgtcca agctctcgt ctcaacattc atccacaact tgaccccagt 2100
 gcacagagac cacctgctgg cggtgtcct gctggccgtc atcgcccttc tgggtgtcac 2160
 tggatcatc ggactgcgt tccaatgcc cttgccacat ccatgggatt actgggtggca 2220
 gaaatgcttt gacttggtga gtaacgccc ggcgaattg agctcgtata acacccatcc 2280
 tgccgatgca ctgcaacttt cgctgaccgt tgcgaatctt gtctacagtg cgctgggct 2340
 tatttctgt ccgcggcgaa catcgccacc gatgtcgcga ttatcgtgca ggctctctc 2400
 ctgatctttg gcatccaggc ggcatggaag aagaagctca tgttcgccag tatttctct 2460
 ccagagtatt gttag 2475

<210> 1851
 <211> 3136
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1851

atcatgcaga aatgagacct atgtgacgaa aagttagact tggtggttac gaccctgata 60
 ttcatctat tcccccttag cttcatgagc tgtattttat gctttttttt tttcttttct 120
 ttttcttttt tgaggctcta gcttctgtac ttcttagttt agcgtcttct ctcttctttt 180
 ccggtccttt aagtgcgca tggacgccag aatccgtcct tttgtctcta ttcttgcaat 240
 tagacttata tattctatca tttccttcc gttttatata tatatattcc ttttttggtt 300
 tcccattact tccaagtctc tctgatcttc atcctttacc tcccgttgg ccagggcatg 360
 aaccgggata acgtgcccat gagtctggga agctacaaaa gccagccagg ccagggccaa 420
 acctttgagc ctttgcggtt ctttctccag caggataccg gctttctttc tcacctctgt 480
 acttttagtg tacgatcatc tctcttattt tattatataa tcaatatctt tctgtaccat 540
 actattttcg ggttgattcg aaagctcctg cgtttgacgc aatccgcagc tctgcaactt 600
 accgatccct ttactaatta tcaaactcctg attattcaat gtgagtcctc catgccagtt 660

catcagatta gccttcatta cagctgttaa acaatgtatt ctacttcaat tctttgggca 720
gccgagccgc ccgaagagtg attgtatttc ttcggtgcac ttccctgaact tgcgtgtttg 780
gcgcactttg actgacgtac ctagagcaca gacggcggcc gagttaaccc ggatagtgcc 840
cctccagcaa caatgttcgc ccgaagcctc aagtcgacaa taaccccacc tttctcgtcc 900
ttctcttctc gtccctctc ctccgtcttc aattgcagtc aatcctcttt catctcttcc 960
cgtggcttcc accagtcttc tgcagctatg gtcctcagg ttttcttoga cgtccagtac 1020
gctcctctcg gcaccggcgg taagtccgc gcatgcatac caccataata tttacccctt 1080
cttctcacat ggatgtcggc ccccgcatcc gttgctcgca cgccggctct caaacctact 1140
cttttcatga ctaattcggc ccttactggc caattgcttg ttgctaacgg ttgttttgcc 1200
atgccatagc gcctaagacc ggccgcatca tcttcaacct gtttgacgac gttgtcccca 1260
agaccgctgc aaacttccgg gagctgtgca agaggcctga gaaggagggc tacaagggct 1320
ccaccttcca ccgtattatc cctaacttca tgctccaggg tggtgacttc actcgtggca 1380
acgtgagtc tctttgttcc tgcaattctc gcggatcttt tgttctgaag gctaactatg 1440
agcactacag ggtactggcg gtcgctccat ctacggcgac aagtttgccg atgagaactt 1500
caagattact cacagcaggc ctggtctcct ttccatggct aacgctggcc ccaacacgta 1560
cgttttccta cactcactac ggtaacaaaa caaactaata acaccctgct ctagcaacgg 1620
ctcccagttc ttcatcacca ccgttgtgac ctcatggctc gatggcaagc acgttgtctt 1680
cggtgagggt gctgatgagg agtcctacag cgttgtcaag gagattgagt ctctcggtag 1740
ccagtcgggt gtcctccgct ccaatgtcaa gctaccatt gtcaactgcg gtgagctgta 1800
aacagcgtga acgtgtttta tgaaatatct agcttaaagt gaattcctgc ggatatgagc 1860
tgattgcagc tgtcgcaact tggttacgct gtgaggccat ggtacaatat agccctttcc 1920
caggccagtg taatttagag cgtcgatata accagttttt cactcgtgat ggattcatgt 1980
ctttgcttgt ggtcattgca ctgtagttgt cttttgttgt tgaaggaatg gagcagtcgt 2040
tgaacccgc tttacggaat tatatggtgt tccgttactg tttctttctt agccctgaca 2100
tccaggccta agtttccagt acccatggat atcattcgac gtgtgttcta gcttatcaaa 2160
actaccagt gttacgatac ggactcctcg cttggagaac aatatggcgg ccttataaga 2220
ttaacctcta tctacagtga taaccgtaca gtcatggcga attttctgtg ctcattagcg 2280

acattgcagt atcggcaact gcctatttac tttggtaaaa ggtgtttagc tattatatga 2340
 ctattatgag aactaaagtc ctccttggtc tagaggaaag gttgccatcg gtatggctta 2400
 ttggatctga attatatgcg tatgtgaaac atcaaccgca gcatttcgta acagccgttg 2460
 cgtcgttcct gtttgtttaa cgctccgtta gcgataattc ttaaggctca ggtctcggct 2520
 atctcgactg acatcgaatc gtttgatttg aagccaaaga gatagcagag aaagacgggg 2580
 cagcgagggc aataaggta acgtactcct taattccacc cccaatgtac tcccacgaga 2640
 agatgaacga gccaggaag gctccgatga agatacaaat aataatgtac ccgttgaagt 2700
 acattgccag caacatcaca aagtacgca ccgcaaactg caacatatgc agcagcgcac 2760
 ggataaactg ttcaataagg cttggacgga cgcggaaggg tgctgctgaa cggggcccag 2820
 aggctgctgc tggtgccgtc gaggtggttg caggagtctt atgggccccg gctccgttat 2880
 tgccaatgcc aattgcgctg tcagattccg aggctggtga tggggtggct gcaccagggt 2940
 gggtttgccg ggagggtaca aggtattgag cagcatctg ggcgcggtgg atgatgaagg 3000
 cgtcgtattc gcgggcgatg cggcgcagaa actcgaggac tatgacgagg cagatgacgc 3060
 caatgcaaga gcctgcgaac atgcgcgcg agcgaaagt ccagctgcgg gcaaggaagc 3120
 ctgtttttcg tagacc 3136

<210> 1852
 <211> 1852
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1852

acaagaatga ggttgtacac cttgaaaatc cacataatcg acttcagatc ggcatatcaa 60
 agctacaatg ttcactgtaa gctaccgcaa ttcccgcgaa cgaagcacct tcaatcgcgt 120
 tgtctgcagc gccagcgcga gtcttgccgg tgcattgcc aatcgaacg aatgcataaa 180
 atggagaata atcacgaccg aaacacagct catctacat gagacggggg taaacatcac 240
 tcgtcacctc cagaacagaa gtctatacag ccctacagac ggctccgctc cgggttgaac 300
 cccaggaaga tcggcatgga gtaccgcgac gcagggtaat gtagcatcac ataccgggtg 360
 ccccgctc ctggcacatt attcgacaag cgctgcctct cagccgattc aagttccgat 420
 gtcttggtat cgtttatttg ccgtagtgtg gatctggtgt ctgggtaata cataatttgc 480

accaggggtgt tcatgacgcc gtcaaagtag tctcgtcta ggccaggagt aagtgcaa 540
 aaccaatcac ttctgtgccg tgacgagtgc tttatagaac tcgattgttg tttttcgaac 600
 caggggaggt gggatcgtct catccagagg tattcttggg acttgaaggc agcaatcatg 660
 tttttacttg aagaggcaaa gagtgggtaa ttgctgggtc actgaaggat tgtggcggac 720
 ggagaagggt tttttggccc actccacaat tcttcagett catcctttcc ggctgtatat 780
 gctagactga agcagaaagg ctgatttggt gagagcgggg actaggaatc aattaaatgc 840
 acctccactc actagcattg atctgcgaga ttttctctgc atgcgcacaa ttataactcaa 900
 gacctggcat ggcttattac ctttgtctcc agtgccgaat cgattcctcc acatttggtg 960
 aaggagaact cagtttctct gctgcagcca tactggacac agatgtttcc gccgcaaggc 1020
 cacaattgac agtgtaagggt taattcatat ctcaatgtgt gaggatgtag ccacaatact 1080
 gaaacgcacc ggtatgaaaa ggcaggagag ggttgagag ggtagcggcc ctgtattgag 1140
 aattggacat ttgatattgc ttctgcagcg gttaccaagc atatatgaat gaatacgact 1200
 atctacggat taccatgtac gagaaccggt ctgctgatat cgaaaatata acttgggtta 1260
 gtatctttag tatcgatagt gtgttgagaa caacagaaac gccgagtttg gccaagaagg 1320
 gcaccatgcc cagtctgggt aataagcgag agagagataa agtgctctcg cagctttcca 1380
 accaagtata ttcgctggag aagatacggg gccctgccat tatctcagta gtggcgaggc 1440
 aaacatagtg gattctccca agagatacat actacctaga aaaacatggc ttctatacaa 1500
 aactcaggc ttccctgacc agcatccatt tctccgaatg ctaggcattg attgggagta 1560
 tcagctatga tctgctccaa gtcttccact ctggattgtt cgtccaatcg tcgatagaca 1620
 tgtacctatc cccaggcgac gaccccatcc atccaagcct cgaggctcac agaaaacaga 1680
 cctagtactt ggcatttgca acgttgactt acagcaagca gcacgtgtcg ctgcatttaa 1740
 atttcaccag tcggactggg tatctgagaa gcagtgactt gtagcgccga agcccaatat 1800
 ctagccaatg caaggtgtcc ggagcacagt gctggcgctc atatagcctg tc 1852

<210> 1853
 <211> 2465
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1853

tgtttcttcc ttcctccctg ggttgcgtag aagcagtcctg cttaattagt cttgtgataa 60
 gaaaacaata tgacgtccat tacttacgaa gttggctcct ctgtaatagt ctaatcgttc 120
 agagtgttga tggacgatat cagtggcaac ctcatcctcaa aacgctctgt cgtgagaaac 180
 aactagaaca gtgcttggat atccttggag gtaatttgat aaaaagggtga tagacggcac 240
 atccaacatg ttggaagggt ctgcgacaat cagccgttgt cgtcgtagg tatcggtttg 300
 accaaccgtc taaaaggagc aaatcgggct cgcaaacag agctctagcc agagccagac 360
 gcatgcgcca accaccagag aatgtcctgg tagcatactg ttggcggttca ggggagaaac 420
 ccagaccagc cagaatgctg gctgctcggg attcggcctt gtccgactcc atttctgcaa 480
 gcttcgaatg gatatcggtc agcgtgatat cgagtccttc tcgctcatga tcgagcctag 540
 ctgctctgt agacgtatct gccattgaag atcgctccgc ttcaatggct gcgagttgtt 600
 ttgagatttt ctacaagagt caactagctg taacattgag gatccgtgaa aactgacctc 660
 ttggtccgca agtagccgtc tgcgccacac atccgcatcc aacaccgctt gaagggcagg 720
 agtgtcatca ccagtaatct agattgttag cactatcatg aataatacga ataaacaaca 780
 tacctcctgt tcaacatgga gaatcgaaat atggcttgga atggctactt ctctgcgact 840
 caaagcgcgg agcagagtac tcttaccgat accgttctga ccaacaagac catatcgacg 900
 gccgtaagcc agcgtaaggg aggccttctga aagaatgcgg tggccaccaa ctgagatatc 960
 aatgccttcg agtttgatat ccttgcctt tgctgggag tcggagccca gttgaagggg 1020
 attgacagcc atgaagaact cttcgtacga catggttgca tcgggctcgt taagcagacg 1080
 agatgcttca tattgcaccg tttcatctg cttcttttcc tgtttggcac ggatcttgcg 1140
 ttccgccttc tccagcttct tgcggtcgac gcgagattcc atcttgcgcg taccaacaga 1200
 ctcgaggtca acatttcctc cagcaagacc cagagtagag gacaagtttc actgagacct 1260
 aacattaata gcttgggtcga gcttctggcg gcaaaggga tgtgcctgca ctccgaatcg 1320
 acgccatcgg aagcactaag ggaagaaatg aacttctcta cgagattgcg aatggcctct 1380
 tcattttgag cggagaagtc ccagaggca gaaactaaca gctccgtgac catgtcagcg 1440
 gcttctgcca cggagatgg agcattcgca tcttcaacat aggccttga cgcgtgagtc 1500
 aaataaccct gtggttgtgt tagtctgaac tcgggcgatt attcgtgtaa gcctgcactt 1560
 acgacggagt actcagtgat cacatggctg aggccaggaa tctgagattg cagttccgcc 1620

tccatgtcgg ttcaaaactt gcaactcaaaa accttagatc ggcaatgaca agggatatgcg 1680
tatctttcag cacctctcaa tgctcctata tcatgtgttg aggtaggcgg ttacagtctt 1740
ctttgagtcg atttgggtgtt gcaagacttt gaagtggcgg aaatgtggag caccggcaat 1800
tctgcacaaa tgctgggcca acaactacaa ctacacacgc ggaagaatgt cactattaga 1860
caatacttta actaataatg gctgtgcca tagccactac aaaactatctt tctatctctg 1920
cgagagttga ctgctcgttt tcccagcgaa tattgtagat cccatttggg tcacatgata 1980
taaagatctc acgtgataat acatccttcc gtcgcacata cgaggtagta ctgttggggc 2040
tcgaactcag taacacgtca tccggtcgcc gatctaactc aaccgcactg tacgcacgtc 2100
aacgctagag aatatggtac ctcaagaaaa attccgcaga gctgcgctac atttgggtac 2160
caaacggtca gtgccatacg aaagcagaga ctatccttca taggctacta cattgatgcc 2220
tccatcatcg cagagagtgc ctagacaacc aaaaatgacc attcgtcaag aaagaccgtg 2280
ccatcctagc ttagtgctgc cgaatatatg cacaggcgaa tcggtggtgt tcggttagcaa 2340
ggatgatgaaa ccgaggggta gcaagcgcca tgcattgacc agccaggacg gagaacgtct 2400
ctgcatgttt cgtcgtttga tgtcaaacgc caaagcggcc gcccgatcgc agagtgcgaa 2460
agtat 2465

<210> 1854
<211> 3266
<212> DNA
<213> Aspergillus nidulans
<400> 1854

gcatacaatt gaccctcacc gtcttcgacg atgccattga cttctacccc ttgtccact 60
gctcttcat tttcgtctac aggcgaaacg atgatgattg atgggtttgt gtcgggagtg 120
aagaagtgca agttgtcggg gagtgcgacg tactcacgaa gtatcaggtc gccgtcatcg 180
tcgtacactt cgcccatcag gtcatctccg gtatccagga acctgattac aatgtcctca 240
aatcgctcac gggctgccgc gttgttggcg tagtcagagt cgaggaagga gatgttttcg 300
ctgcgtatgt tagctgatcg tcgggggttag ggcaccgata ataagaaggt ccacgtacaa 360
gaaatgggca aagtatacag cccttctcga cgcaaccaga agagccgtgc acccgcacag 420
accatccagg acaatctcta cgggctcatc cccaacacc tcgaattgcg ctgagtttcc 480

ggggttaagg ccgtagtcat acacggtgag tgcattgttg gttacatagt tgtcgacgcg 540
 gtcgatcagg tactcttcca ttgcctcatt gtcagccggg tagacaaact gacgcttgga 600
 taactttggc ttgatttttg cagattcccc ggtaggtatg gggccttttg gctttgggtg 660
 acgctttgcc aaccgtggga tgtcaggctg cttgggctgt ttgcattttc cacggcagta 720
 acggtacggc gttgttgccc ggcgggtaaa atgggttgctg tgctgtatag ttagcgagta 780
 tccagaattg attagaatat tttactaag tggcacctct caagactagc accgaaacca 840
 ttgacgctga ccgtctgcac gctgtccaca tacgtgaacc tgccattctt gttaaagaga 900
 ggctccctgc ataagataaa aggcaggag ctcaaaagaa gaacgattgt aaaaaggggc 960
 aagatcatat tgcgccgctt gctgagtaca tctgttaact ccagagacag actgcaactc 1020
 tcatacttat actcatatct acactactct acgacaccgc cagatcaaca ggaacgtcca 1080
 atgcactctg atccctgcat agaattgttg tctatactga aggcaatgaa gccagcgcgt 1140
 tgcattttaga tccttcggga tgaccgatcc ttgtatccat atagaggatc aggccagacc 1200
 cattagctgt tctgggtgctg gtgagtata tcccaggatt ttctttgagg tttattggct 1260
 atagtgatat agtggcagct gaacttgggc taagacaatt cttaaagta agaaatcgct 1320
 catgatacct ggacatcggg cagccgcgac gcgatatccc agtgtgccc aagaaatgaa 1380
 gttttctaga acatcgtgcc ctgccaaacc ctacatataa gtttccaggg tatgttctag 1440
 cgagccgtgg ctgctccaa tgaaaacacc ctgataatgc ctcttttctt cacagccgtt 1500
 ccacagccaa tccttgctgt gatacggctc ggctattgtt tcccaagaat gccaccgagc 1560
 ttcagccgca ccttggccgt atagaaaata gtcaggcatt gtagggctga aagacttgga 1620
 ctgctcggc cgacggctgt tctacgtgac ggcttggcat tatattcagg atgcattaag 1680
 atttgagacc ggagtgtcac agatactaag gatgtcaccg tatgattcga ttgcataaac 1740
 tgttcttccc ctaggctttt aagagagata ttttcttcag ctagacagtc ttatgccttt 1800
 cggggtcgtg tttgggataa gctagggtgt cgctataccg ccacgcgca ccatatcacg 1860
 ccaacaaca ccatgcaaga acctctgctg ccatattttc acatgagaca gattattagt 1920
 ctggcttgaa ccgctgcttg cttcgtatgg agcgaggatt aacttgaagg tcggtgagga 1980
 agtgaacgga ttcggttata accacagttg agatgctgc gtccccgctt acaaggcgct 2040
 ctttctggaa acttcaatgt agagaagagg cttccgtcag aaaggga aaaagggg 2100

agtctgtttg cgtggcagga cagtggggca accagcagcg gctccttctg aaaactaaat 2160
 acacacccta acatgccata cgggttagga aaggccaaac agtgctacga cgaggggaat 2220
 gagcttcacg gtcaacgagg gttcttctta ttataacgg cgatcgcccc aagtgatggg 2280
 ggccattgac cgactagacg cgagatgtaa catcttaggt ctccgatctg gttgaagcta 2340
 tgagagcatc ttcgaatgaa ttgacgcagc agcagagctg gccagcgatt caacggcaat 2400
 ggcgtgggtcc acgtttcaag agatcctcgg tgaaggcgtg gttgtgagtt acgagggctt 2460
 tctcctggac atcaaatact caggggaatg ttcggcttgg tagcgtgtgg tttgctcctg 2520
 ctttagttgg caagttttgc acagaaacat agggcttgag cgccgcaggg gacagggata 2580
 gaggcacgtt ggcgaggtaa agcatttgag gggtgaaaag agtaaacgct ggtaagcctc 2640
 ggtgacacat cgtcggagtc acaattgtgc tagagagtat ggcgaggctt atgaggaaca 2700
 tagttcatct gctgggctga gggaggctcat ctacaacctc tggaaacggg cagctcgag 2760
 aatatggtag ttggagaaac aggtacgagg gcactatctt cagaagcaat gattgcaggg 2820
 gcagttattg gagggagagt atgattgacg atgatcattc ttgaagtgcc caagtgtgc 2880
 gatcactggg caaccggggc ggctctaga gactccaaag ataagtgttt gctaaggcca 2940
 ggcaaccaga tcgggatcgg tatcgcgggg tacgcaatgg ctgcatggta aggttggttg 3000
 tagtggctta gccaatgaac ccctcatttg gagatattta agcaacgtga catcgtcgtg 3060
 ttgtagcctg cgccaacccg caaaatgcac tccaagatcc tctggctgag gagcccaaca 3120
 atactcaata accaggtcaa gcgatcctct agcttcctaa ctacgcatca tggctttcaa 3180
 cagcgttccg ctaccgtcaa aaagacgccg gtggcggtct tgccgacgag agcctccttt 3240
 attcgggatt ttactttcat atgtcg 3266

<210> 1855
 <211> 4357
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1855

agcttggtcg gtttaaccaa ttccgttgca gtcgctatgc cccaatttg agccctatat 60
 tcttaacagc atttatggcg ccatttttagc cacatcttct tgccctttaa gggggcttag 120
 gcgaccttta atgtcttcgg catcatttga cgggttgtga acacttcatt tgccagtatg 180

tgctcactcg ccctatctca gctcaagcac agagagtcga ccatttgatg cacatattgt 240
 ttgtgcctga tgcagcacag aaacctcgtg ttcattcaga ggtctctgct ttctgaaaat 300
 gctccacaat tttagcaaaa cgacgccacg cgatataggc cataacctgt tccaccacgc 360
 ggggtgtgcc acggcacaca ttgctctccc gcatccttct gctccattcc tccaattaat 420
 gggttgctca ttggagggtg attcttgaat ctggggccac agccgggggc cgcctcatac 480
 gaggtaacat cgggtggagta tgcaagaatc ctccctacgc cggccgagac gggagatgat 540
 gccactagca acccatacag aaagtgcgat tggcgaacac acttctatac atagcacggc 600
 cagaagctgt gtccttgata gaatctgatt gcatgtcaac cttggcttcc cgccgaaaac 660
 tctcgtactc gctttacgaa ggactacatg agccttccct gatctgtggt acaggcagcc 720
 aagagcaagg tgggctgaag gaactccgca tgacgccctt cgtcggcttt tggcaagccc 780
 aattttgccc acagtccgta cccaaaagg accagcaa at gatatgctca agtcaagcac 840
 catgggttaa ctttctggac tctagcttta cttagctgag ctgcacctgc cctaaatagc 900
 ttcaccgtag catgggagtt cgtatctatc aatagaacaa gcttgatgt acacgaaaat 960
 agacctatgg cgagcaaagg gtgttcgccc gcatcaagct atgtgaccga gcttgccgaa 1020
 gtttccttgt catatatctt gactatagcc caaggagca tctgatgac tgccctacctc 1080
 ttcccttatt agtcctgaa tcatcttcta tgctccctag cagaaataga catgaacgaa 1140
 acttctgact tctgcgccat catcgatgat tcttgagag tccacgcccg ttctgtcga 1200
 ggcgggttcg acttcacact tctctttgag gaattggcgc tatgtatcct gccaatggcc 1260
 tttgtcatta ccttatcccc cattcggata tacactctct tgcagaccga cagtaaagtt 1320
 ggaccatcaa aacgaccaat attaaaaaca gtacgtgctc aaacagctct cttttgtctt 1380
 ttcaacgccg actaacgtgc catgcagtca ggatggcttc tctggggtgc cctgcaattc 1440
 ctgcaggcaa ttatatgggc cctaccaaac gcccgaaata ctcgagcttc gattgctgcc 1500
 agcttgcctc tgggatgtgg atcgtcatt ctgtgtgttt tgtcatacat ggagcatttc 1560
 cgcaacgttc ggccgtcact ctgctcgag ctctatttgt tggtcaccct actcttcgat 1620
 gtcacaagga cgaggactct ctggctacgc gatgataatg actacaacaa gctcatggca 1680
 gtcattgcca gctttgccgt cgctgtcaag gttgtgcttg ttgtgctcga aggctggcag 1740
 aagagagcta tctgaaaga caagtaccga gcctaccctc cagaggcgct cgcgggactc 1800

gccaaccgtg tgcttttctg gtggcttaac ccccttttct tcaagggata tttcaagctc 1860
cttcgagtgg aggatctgta tcccctcgat aaaagactcg agtcagcacg attgcgtgag 1920
ttactcgaca gacgatgggc caaaggtact tgaaatattg aattcatctt gtcgttgagt 1980
gctaacagac tttgcagaga atcggacagg caaagcttcc cttctgaatg ttgttttcaa 2040
gactttcaaa tgggtcaatac ttgcagtggg gcctccgagg ctgtgtctga ttggattgac 2100
gttctgtcag ccactccttc tccacagagc aatggagctc tctgcagaaa aggtaacaat 2160
cgagtcaaca catgttggat acgggctcat tgggtgcttac gtcttggtat atgtcggaat 2220
ggcggtatgt cgagaaggca gcttcctttg ctctaatttg agggctaatt gtgataaaat 2280
ccagattatg atgagtcaac aacagcatct cacgtatcgc gcaattacta tgggtccgcgg 2340
cgcagttgta tccttgatct ataaaaaagc cagcatgctc acaatcaaag atgctgatcc 2400
ggctgcgtct atgaccctca tgagcgcaga catcgagaga atcgtccagg ggtggcaaac 2460
aatgcatgaa atctgggcga atgccactga gattgcactc gcaattatct tattggagaa 2520
acaacttagt atgcctgtg cggtagctgt gggcgtgtct atctgtatgt tcctgcgcac 2580
gtccagtggg cggcctgaac caagatctat actaatctga ttgtcaatcg ctagtgcgcc 2640
ttgtgtgttc cttggttgca atgtctggcg tcatggcaag gcaagccaag tggctagagg 2700
caattgagcg gcgcatctct tcgactgctg ccatgcttgc atcaatcaag ggtgctaaac 2760
tgcttggcct caagccgtcc ctcatggcct caattcagga cctacgattg caggaactta 2820
ctatttctaa agccttccga aagcttttag tatggaacat ggcatttggg gagtaattcc 2880
caagcaatca gccgtccatc atcgcgcatt cttgctaaca tgtgccacca gcctggatga 2940
ctcgcatctt cgccccatt gtgtcttttg ctgcgtacgt cgccatctca gaaaacgcag 3000
ggcgcgggtc ctgcctcgac atcaatatgg ttacacatc actttcgtc ttcgctctcc 3060
tggcagaccc attcttgtcc ctggcatgg cgctcatggg gttccttggc tcaattggtt 3120
ctttcacacg aatccaggaa ttctcaaca aagagactta tcatgggaac cccaatacct 3180
cccactggag ctctgtcact agcctatccc cgtacaagga gcgtcatctt tcatccgata 3240
cgtccagtac gctgggagtc caagaagatg agacaacagt tgagatgaaa cttgccctcc 3300
catttcttga tactctcatg gtggagagtg caagcttttg atgggatccc aaagcagacc 3360
caaatctgca ggatataaca ttgacgttcc ccggtcgaag tttctccatg attgtcggtc 3420

cctccgggtc tggtaagtca acactattga aggccctgct tggtgaggtc ccgcggttc 3480
 agggtaagggt gcaggtttcg tccgatagca ttgcatactg cgaccaaacg ccttggcata 3540
 tgaatggtac gattcgggag agcattattg ctatgtcaga gttcgacctg ctatggtata 3600
 ccactatcat aaaagcatgt gctttagagc aagacctagc ccagtggccc caaggtgacc 3660
 aggctattat tggcagtcgt ggtgttgccc ttagtggcgg acaaagccag agaattgtac 3720
 gtttccactc ctgcaatagc caccaaggac agatatgctg ataatatatc ccctataggc 3780
 actggcaagg gctatatacg cccggaaacg aattttgctc ctcgatgatg ttttcagcgg 3840
 tctcgatgca gccacggaga accacatttt ctgcagcttg cttggagtga ctggactcct 3900
 gcgggaagct ggcactactg ttgtcctcgc ttcattctct gtcaagagag tcccatacgc 3960
 cgaccacatc gttgtgctag atgaagaagg aagactgaca gagtctggct cgttcggtga 4020
 cctcgctgag caatcaggat acgtctctag tttctctctt ccagctccga actgggactc 4080
 caccggcgag acggagtgtt ttcccaaacc aaaaccatct cgcacacgcg gtcttgccag 4140
 taaagaaggc tgattggagc gaggagaatg tgcacaagca taccgcagct cttgcaacct 4200
 acctgttcta catacgcgcc gtgggctgga ttccaacgat aatattcctc gcggccatcg 4260
 ccgcattcgt gttctgcatt tccttcccaa gtaggttggg ctttatcctg gtgctgggcg 4320
 gtattgccta cgcagtcttg caagtatctg gtttgaa 4357

<210> 1856
 <211> 2241
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1856

gacctaatcg tactagatgt tgcgatcaac ccattctgctc cgaatgtttt gtgcagatta 60
 aacgacccga tcttcattct ccagagcaac cgcactcgga ctggaacgct ccaaattccag 120
 caggcgaaac ggaaaggcag gacgttcaag atattcagct tgtctctgaa ccagcagcat 180
 gcccatthttg tgtccagcca gaattcgggg tggcatatgt acccctcctt ttccgtagag 240
 gactagccta cgcctccgat tcgagtggcc ggccaaacat aggaacacca gtgtcatcta 300
 catcgtcgtt atcttcggca actactccta ccactggctg acggcgtgca acatcattat 360
 ctgcaacaga tccgagtgtt ataactacag acaagggtgc gccagattgg gcgcagaaac 420

tggccaatgc tcgtgcacat gcggcccgaa gatctgcggc ggctaccgct ttacataccg 480
 cggcttatct aatgaattct aatggctccg gaggcgatac tcgaggattt agtatgagga 540
 gaggtgttat gcggcgcaat aacgggtggac aagactcccc gggtacacca ggtagaagcg 600
 gatcgccagc gctacaagcg ttcgctttct tgacagatag gcgcgcacca tctggacaag 660
 aaacggactc ggctgaagag ggcacaagca atcttgctcc ccctcggaac agttcaagaa 720
 ggtcacgcat ggatgacttg gaggagatga tgatgatgga agctatccgg ctgagtctgg 780
 caagcgaaga agagaggcgt aagagagagg agaaggaatt gagaaaagag gccaaaaggc 840
 gagaaaaaga agccaagaaa gcggaaaaaa tggctcgtaa agctggctta tatagcaaca 900
 atgcgagtag ctcggtcttg gagtcccat cagattccag actgccaag gttacaagca 960
 gctcttcttc tatcatcggc gaagaaagaa ctccgccggg taagggcaag gcagtggaaa 1020
 gagtcactcc gtcccagagt aacgtcgacc tgaccgaaac tgctagctct ggtgatgtac 1080
 cgagcagttt cttagagcct caacaacctc agtcatcctc gtccctcggc ccgccggtac 1140
 ccaaggagcc ttccaagcct tcacacctgc gtcattgtgc cagcgcttcc tcattattct 1200
 cgtctctcgt cgagtccatg tccgaggagc ctgggctctc ggcccagcca cacgaaggta 1260
 ccagctcatc agcgggaacca ttgttcaact tccgcagtct agccgccggt attggcgacg 1320
 aggacaaatc agatgaagcg gcggaacatg ttgaagacac tgcccctcac acgacatcag 1380
 aagggtcaac ttcgagcgca gcgaacctga caaccgctcc ggctgggtgag tcagctgtgt 1440
 caacttctag tacggccgtg gaaaaaggcc ctacggttga agaaagccaa gaatgctcgg 1500
 tcaacaagga gattgagaca cgggccatgg aggtcactga tagcaggaat tcggagacca 1560
 catcatgaca ttcagctatc tttcagtctt atcttgaacg tgcttgactt gggtcaccag 1620
 cggtgcaagt catttcagtg tcattccttg gatcttcctt gacggaaaag cgagttttat 1680
 ttgtttcttt gtgcgctcat ttgacgactt tgttgacatt ggcataacag gatcggaggt 1740
 ctctttcctt atatacaaca acctatagat ctgagttttc ttatatTTTT gtgtgtgtac 1800
 catcggaagg gcatccagac tgcatatggc taaggttgtg ggtgaaaggg ttggtctttt 1860
 ggaatagagg aatgcaatcc atagcggttca ttgagcacia atttatagtg ttcaactctg 1920
 gtcataaatc tagctttgac ccgtactgtt aaccaagcg tgattctaga aggtcctcaa 1980
 gctaccacca tgtcccgcaa ccttgggaaa gaaacacaat aactttacgt tagtgaatca 2040

ctcatcgctt acaagggcat gggtagctat ctggcctaga taggtaggct cccccactg 2100
ctacttttgt acgtggctgc tcttcctagt accgcaagca gttccttctg aagctgggtt 2160
ggagtggaat actagagcag cttcgtctag ctccccctc ttcttttcta tttctatttt 2220
tttttcttgc cctttgattc a 2241

<210> 1857
<211> 3459
<212> DNA
<213> *Aspergillus nidulans*

<400> 1857

tgtctcgag attccctgga ttgatcacct gtcgcacaaa aaccccatcg tccgaattgg 60
accaaagcca acattgaccg gtgtgctcta cgccttcaag gtagttgccg agtaccaagc 120
ccaacttaac tcgaacaagg ttaagcctgg caacgtcgac cacactctag acaagtacgt 180
ccagctcaag aagacacatc cggacgtggg caacgatgtc cagatcgta actggttgat 240
gctaagcatc ctgctggag gcgacaattc gtctgccaca atgcgcgcaa ccgtatacta 300
cctcgccaaa aacgcggacg catacaagaa gcttgttgca gagctgacca ctgcgaatct 360
aaccatgccc gctcagtggg aggatatccg cgagctaccc tatctcgacg ccgttattcg 420
agagagcatg cggatcaatc ccggaattgc gatgaacttc gagcgtgtcg cgccggaggg 480
cgggtataca ttgcctgacg gacggtatat cccgctgga actaagggtg gcatcaaccc 540
agctgtcacg aacagggact atgcaatttt tggagaagac tcagattcct tccggccgga 600
tcggtggctg aaacgagatg gtgagagtga tgaggagtat caagagcgtc ataaacggat 660
gcatgatacc tgcgactttg tgtttggagc tggcgcgcgg gtctgcatgg gtcgatatct 720
tgccatgttg gagataaaga agctgattgc gactttgtac agcacgtttg atgtaagcca 780
ttttgctctc tggggatggc tgtcatatcg ctaacactcg gcagctgcat ctggtcgacc 840
caaaacatga gtggacatac cgaaatgcct ggtttgtgta tcaacagaac atgcccata 900
taatcactcg ccgtaagctc tcggcatgaa actctcggta aggacggacg aaggttgagg 960
atcgagagcc tttatatact acgaacatcc ctttcatgtg actctcctta taaattgtaa 1020
ctcagatagt agaccttaag cctggcctat ttcactagta gagcactgca aggaaccaat 1080
atcaaattca aggcaccggg caagggtgga actgtaatct gtactttgct catgcagcta 1140

tatatgtgcc atgtggtcta ggaaaccgtc cccgcgattc tctaggataa ataaatacca 1200
acgcttgact aattacgcat ccatcccccg ctgcaaggac gattccagat cgttgtgggtt 1260
gccgcctacg gcgcctgctt cttgaggcct aggctcttct tgectccaca ctccctgctg 1320
atgctcggga atggggatgt tgcctatttg ctggtgttgg gcgagagatt gcgcctgcgg 1380
gggcatgcgc accgattggc gaaaacggac gacttcctcg tagatcatgc ggcgcatctc 1440
ctgcacatcg tcaaccacct caaagtggaa gtcaaagggtg gtggggcagc taggctcatc 1500
ggatgcgtcg tgccaaattg caaggtaagg gtgttcaga gcctcttcca ccgagatacg 1560
tgacgaaggg tcgaaagcaa gcatgcggtc gagtagatcg agagcatcgg gattggcgtt 1620
cggaacagg cgctggaagg gcaccttggg cataaagggc aagttacgca catactcctg 1680
ggcacgtggt gagccaatgc ggctcagagt ttcttcgttc ggagtgccca ggtagtgcaa 1740
gatctgggtt agctggtcga catagtcgcy acccttgaag aaggggcggc cacctaaca 1800
ctccgccaga atgcaaccta cggaccacac atcgactgca tcacgtcagc ttggtcaaag 1860
ttcgaaacag cggaaggca catactagct tttgtgtagc tctggaaact caacatgatt 1920
tccggagcgc gataccatct tgtcgcaaca tattcagtc tgtaaccggc gttctcctca 1980
gggtcaattg agaaaccacg agccagacca aaatcacaaa tcttgagctc acagtccgca 2040
ttgaccagca agtttccggg ctttagatct ctgtgaagga cattggcggg gtgaatatac 2100
ttgagtccac ataggatttg gtagatgaag gattggtagt gcgcatcggg cagtggctgg 2160
ccggatcgaa taatagcagc taaatcacac tccatgagtt ctggtcgaat aagagtatca 2220
gtaaccagtg agcgacctat aggcgaccaa tgccttaacc ttcgtataga tatgtctcat 2280
tgaagttgtc cggtcgggga atatccatat catagagaca ggtaatctgc acccaggtca 2340
gcctcatttg tcccgatgc aaaaggcgt gatacgacat acattgcggg ggccctctgaa 2400
gtgttgagc agcttgatct ccctaagggc gcgcttggcc aaaatcttct tgctgaagac 2460
gttggttacc tttttgatgg caacgcctc ccccgctctg acattcgtag cggcgctagc 2520
gtaacaatat ccgtcagtac ttgtgttcaa gttgctgttt tattgctttg attatgatcg 2580
tagctgtatc caacgctacc ccactatc acgataacga cgaggttgag gacactcaag 2640
cataaagcag aatgccagag aggcacatac caacaatgc cataagcacc ttgaccagc 2700
tccttggtga cagtataacg gtcacaaaca atgaagtcct gattgaagac cttaaagact 2760

ttccgtccct gtacttgtaa gtcagacatg ccgggcgcggt gagactgaga ttccaatcga 2820
 aacgatcgac cggcaacggc gaagggcagt gttgaaacag cgatcagatt cgaaacacgt 2880
 caacgacaac ggtaagttag agtggggcggg ctcaacggat gaatgggtttt cgcaggaaaa 2940
 agggatggaa cgacgaaaag gtgattttttt agcgccctaaa ggaagagctg aggcgtcgag 3000
 tctaggattg cggctgcagc gcgattgcga ctgttgagtc cgctgggtgtg gacgggtcga 3060
 tgccccgcag tgtcacggag ctgctagcta gctatgggtca gttcttgctg ctgctggctga 3120
 gactagaccc gtgagggagc attacaatga aaggttctag gaagaatgcg caaagcagag 3180
 attttgaaca gcgagagtca ttcaggggaa aagaggagag cccaggggtcg actctcggtc 3240
 gataattgga gacagaaggg aagcgctaaa ggtgatggaa ctgcagcagc ggacaaaggg 3300
 cctcaggcgg gtgggggtgtg tgctcctgga tagtggcaca gtgtcttagg tgtgggcaag 3360
 atagtccct tactgaagga gttactcaac aacaatggcc atcagctata ctgcacagct 3420
 atcgctcgtg tggtgacat tctgttagtc aaagcaaaa 3459

<210> 1858
 <211> 3231
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 1858

acctactgct ctcagcatgc ttccgccggt cgactgcggc gtctgcgaaa acttctcttt 60
 cggcgtcgct gagagacgtc ggaatctgtc tccatgagct tcaaccgtca ccgaccctcc 120
 gatccacctt taagaagagc tcgacttctc caaattgtct agctgtgagc gcctcacatg 180
 tatttgctgc gcaagctgaa aaagcaactg tgcacgttta cagcaggag aagggtaatc 240
 aggaagctac tgttccattc ccagagcgca ttcgcagcat tgcagtcgca ggatcgaaaa 300
 atggcgatat cgtgggttcta ggtacagagg gtggtcgtct gatatttgtgg gaggtgagta 360
 agtcccttgg agtgcttggg tacaactgac gatgcctctc aagggtttgca cgggacgcca 420
 agttgctacc actgcategc atttacggcc cgttacctcg gtcgtcgtcg atcccagctc 480
 aaatttcatt ctttccggct catcggacgc cagtgtccat gtttggctgc tagttgatct 540
 tctatctttt acaaagcctc catcagggcg caaccagcag cctccaaatt cacctattcg 600
 cacattctcg aatcacctg cagcagtcag tgctattgtg gtgggacaca gcaccggtag 660

atacaacatt gctatctctg cggcccaaga caacactgcc attgtttggg actatcggac 720
 cggtcattgtt ttgcggaatt tctctctgcc ggccagcgcg atctcccttg cccttgaccc 780
 ggttgataga gcattctatg cgggttatga agatggcagc gttcagtcgc tagacttcta 840
 caaggaacaa tccattcagc atcctcttca caatccgtca ctacaggcta ctccagcaca 900
 ggctcctct gaagaccgct ggctcccacc ttccgctgac agtggcgag cacatgcgtt 960
 gaccctttct tacgacggta tgactttgct atcaggccat gagaatggca aagtgtactc 1020
 ctggaatgtt ggaagacgaa aatatgcac aacagtagcg gacttcacgc atccggtcac 1080
 aaacattatc atgctacctc ttgaaggcct atatcaacag gcgacaaatt taaagagagt 1140
 agcgcataca ataatcaagc cgaaatacga ccatacgctt ttagagaaca cgcaggctgc 1200
 aggtactgtt cctgcagact atgagtttaa caccatcta ctctgctcat cctcgcttag 1260
 tgaagcgct gctgagtcag actggttcat ggacgccttt actcactctt cttttccgc 1320
 atccttgata gagcaaggtc taagtgagct aactgctatg tccttacctg gatcggatac 1380
 tgtctctgcc ccgtcaatga acgtggcaat ggacgttgat acccccgga aggattccca 1440
 aattgcctcc ttggaaaacg aaatcgctac gctcaaacag aaagtctcag tcagcgatgc 1500
 agctcggcaa tccagcactg acgaaatcac gaaactccgt tcaaaccttg ccaacctcca 1560
 cgatcacatc aatgaactca aagcgaagca ggagcaatca cagcgggata ggatacggcg 1620
 acaagccgc agagaggagc gggcaactcg tcgacgggaa gcctgggttcg cggcggagaa 1680
 gaaaggcaag aatggagacg ctgtgctgcg tcggatgaaa gctgaagacg agtctgagac 1740
 gagcggcagc gacgatcaga gcagtgatga gcaatgaaac aagactcctt ttttttcat 1800
 tctacgtatc gatgttctc atgtctctat tacaactatt gttatattca ggatggtctg 1860
 gcatgtttca agagggcatg ggtcacattc cacggcgcaa cgggctaaaa gtttgaatcg 1920
 aggatagagc ttcaaggagc acttggctag catatgaaca gtaacaatta atgttgcata 1980
 cagtcaaatt cggtaataac cgtggcacta ctctgtacac ttttaccacg gctgttctac 2040
 cactctatcc ccgtccagct cgagtcaga ctctggatac cgggctgtac attcctgagc 2100
 tgtttcagtg gagctattcg gggttcgga aatcatataa tagcatcatc tccatatgct 2160
 caattagtcc caggaatgct tcgaacctc accaagaccc tctcttcaag ccataaattt 2220
 gacggtgttt ggagggtcgg ctgttccagg cttcagtagg gattcattga agagccgtca 2280

agtcctatac acatagccgg cgatacctca gtgtatctat aggctattat atacagtaga 2340
 aaaccatgat cgaagctgaa gagacaacgt taacctctaa taccgctcg aaccctcatc 2400
 ttgtacctgc tcgcccctca actcctgtac aatcttaacc cccgaactag ccccaatgcg 2460
 ctccgctcca gccctcaaca tcttgataca atccgccgca gagcgctactc caccactcgc 2520
 cttaaccttc gtcccccttc caacagcctt agcaacctca tacatcaacg ccacattctc 2580
 aacagtcgcc ccagccccat taaaaccggt actcgtcttg atgaaatccg caccagccaa 2640
 gcacgaaata accgagccag caatgatttc gtcacgcgtc aattgcgagg tctctaggat 2700
 aactttcagg ccaactggcg caggggcagc attccgcacg cccaagatat cctcgtagac 2760
 ttcaacatac tgctttgtct tgagcagagg gtacttcagg accatgtcga gctccgtggc 2820
 acctaacgag atagctttac gggcctcgtc ttcttctca gaggtttcgt acatgccttc 2880
 atggaagcca acgacgcagg cgacacctac ttctggcgca gaggcgaagt tccgccacgg 2940
 cttgctcaac gtgggctaag cggacgcata ctgttgcaaa ttggtatttg aggctttgtg 3000
 tgcagagctc ggttatttga tcntggagtt gctgtcaatg ctattnggat gtgggtcgatg 3060
 nnntgcgttg actttggttg ggcgtggagc ttgttcttgg attanggatt ctgggtagtg 3120
 aggccagat ggaggaaatc aaagccctcc attctggttg ggtttgggga tagacatcgc 3180
 gtgctgtagc tgtccaggtc tctaactcag gcgagagaaa gtaacagcag a 3231

<210> 1859
 <211> 5196
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1859

ggagcttcct agcaatattg gatgatagcc accctttttt tatcgattca aagattctgc 60
 accaatggga caggagtaca tatgttgggc cgttcgaggt aacgttgaga ggaaagacgt 120
 ggcgttcaag gtgatagcca gagaaacagt actgagcgag gcagaatatc ttttacgacc 180
 atcatctggt gttaggtctc aaatgcaata agtacacaaa aaaataacca cgggagtttt 240
 attaagccgc gtgatatccg attacgtact tgcatttctc tgacatattg cttgtggggg 300
 aagaaaaacc tctagagAAC atctagagga cagcgttctg caccatttgt atatcgtgtg 360
 gtgacgggca tcgcaaaatt agtcggagat tcattctata cacatcccct gggtagctac 420

tacgcaccgt tgagattatt ctgccttcaa caccagtagt tattggaagt cttcctgtaa 480
 ggctgggggc tgagattatg ggaattgagg aactgctttt ataagcttaa caagagacta 540
 caagagctca ctttttcttg gagcccggtt tacggtaaaa ggagttggag aaacaaaaga 600
 atagagaccc aacgagtact ggcattcacg gaattgacct ggcaagagac gaatcttcgc 660
 agaaagggtta taaggattgt tgacctccgc tactatctca tcaaagaacc ccagtcgcac 720
 cattcccacc taagcaagga aaccctaatt gcttctgtct acacctctg aacatgggat 780
 cttggtcgat atcctcatca ccaacttcga gtttgcaag ccgtgctttg actacgatgc 840
 tgggcttcag ccagggcgca tacagtgcc gacaggccct cgaagagaga aaatggattg 900
 tcaggcattc gataattatt ggatgcagtc tccagagacg cgttgtagcg tggggtctct 960
 cgtgcataga gcatcattgc aattgcccga gagagaaaaa agtctccgga gagaagaccc 1020
 tcagttgcag ccagatctga ttttcgcgtg gtgtagttaa gtctggctct gtctaggacg 1080
 gcgctgctat cctcaaagac gtcattgtaga aggagcagag gccatgcatt tcccgaatg 1140
 ccatgacaca aacctccgcc tttcgagaga agacctgct cccacacgag atccgtggca 1200
 agacatacgg cgcggttcca gttcggttcc cagtgtctta gaaccagctc cgtgtgcttc 1260
 aaggcgcaac caagaaggcc caggatggcc ggcgccccat gacacatctg gaccagcagt 1320
 gactggcgag atgaagagcg gagggtgac ttggttggtta gatggccatt gtgcgcgata 1380
 caaatcctgc atagcgcgct gatcgttctt ccgatctccg gcagacagtc atccagttcg 1440
 tccaagttgc aagcaagaag aaccggtatt atcccgcctg cttcagtcag taactgaagt 1500
 ccgaaggctc caaaagtact tacacaatcc atgagccctg cagaattgca ctgtagcgga 1560
 gggctaacc ttcggcgctg ctacttaacca tccaactcca tagtaccag gcttccatgg 1620
 ccacattaat ggaagggcgt cgactttgcc atggctcttc ttatactttg cagccccttc 1680
 tctgccagca tcaatgattg aacggacaat ttcaggaatt tggctaatta ttggttgga 1740
 aacttccatt tgcgcatgtg gaaggctcag cgccgctgcc ctgatattca gaagcgccca 1800
 cagcagccca gcacggccga agagaatctc atccgcgccc aggtcgtggc catggtagaa 1860
 ggcagtggaa ccatgactta gtgccaaatg taccgcatta tcaaggcact caatatcgtg 1920
 agcggagata gtttcaacc tcccagtggc gcatttatgg aggatcctca gtacaacagc 1980
 agcgattggc gatctagatg ccagaggtga gagacctcca atccgcagag gaatatctgg 2040

accacgagtt gggattcgcg ctctggctag acttaagaag tctggcaggg agctagcatt 2100
 atcttctagg acacgctttt gttgtgctag acgaaggat gcacagcaa ttcctataaa 2160
 atgcgattag gacaccaa atgaaaaggc tgctatgcta ttgaaggcca tgctccttaa 2220
 aaattttaa atgaaggaa atacctagg ctccggtata caccgcgg ccatacact 2280
 cgttactcgc tggagcagta gattcaatga cattgacgcc gttgcaaacc gcactgctga 2340
 ggacctgaag tgtccggcgt agagttgcct tctcgatatg gggcaactga agatcgttgc 2400
 tgtaatactg cgggtattct gacatgttga tatgaggaaa tgtcacttga aagcggcgca 2460
 ttgagccgag tcttgaacg tgctattgcg tattgaggag gctgcaggca tccaaccccg 2520
 cctcagctgt acctatgacg tataaggcag caacatgact aaatcgagg gatgaaggct 2580
 cggcaagtaa tctatactga tcaatctaac aaaactgtgt ataataattt aacgcgagtt 2640
 acatgtgaat tcccttaatg cgtttacctt gattgatatc ctgatcaaaa gaggatggct 2700
 tggctctccc acagcccaga atctttggcc cattcatccc accaggccta cactatgtca 2760
 gtacaaagct acttagaaca gaaaagacga ctcaccagt cgatgccaga ttcatacaat 2820
 aggccatagt catacccaca acttccgccg cggtaggaag agtgataagt ctctggtttt 2880
 gtggctccct gttcaccgcc agcttggttag ctccggagca tgtcgccaa tatttggtat 2940
 actcttgaag tttcatcacc agaatccgat gcgttcttcc aaagagaaac ggagacctcc 3000
 agtgccctgga tcagagtgtc agattcgact gctgaaaact caccgcactc tcttcgtctt 3060
 atcgccaatt caagagcgat ggtcatggcc gcaggcgcca gcatttgctg tgttcgagag 3120
 taggcgtacc aggacggctg tagtagtctt tggtagtcta gcaatgccag agacgatgtg 3180
 aggcagcgag agcgggatat gtcgccggc tggtaggttg cacgttttcg gatgaacctt 3240
 cgatgcaggg tacagatgct ttggtggtac atgcatgcca gctgtaactt tgaatagtcg 3300
 gccggagtcc ggggtgagct gtattttgcg tcattcgcat ccactctcat atgaatcgga 3360
 acatccgacc acaccttggc caacaactga tcgatctcaa tcaccttggc atagtcgtcc 3420
 gggcaggggc cgttaatgaa gtcaataacc tcgccagag cgtgaaacac gcgtcccttg 3480
 ataatacatg acgaggctgc cgttggttcg gacagtggcc ttggggcgcg gaggccttta 3540
 atatcttctc ctagtccca gtcgtgaaca ttaagcgggt cctttgcgtc cgagttaatt 3600
 gctggagtca tccgcgggaa ccagacaga aacgacgcca cttcatccat gctcttgaca 3660

gaaagccata tccgtcgtct atattcacct tcgatggtcg agaaagcagg agtatgttca 3720
gggtcgcggt ggtaccccat atttactgcc gcccttacia taactcctgt cataatccac 3780
aagccccggc tattatcgtc cttcctgtta agttcggcgg tcgcattgaa acgcaatgtc 3840
tcgaccgtat atggcaagca tttggcaata tcaccaagta atagacactg tgatgttcgt 3900
agtcggtaca gatggaatcg ttcctcagcc tctttttggt atccttggtc cccaagctgc 3960
atggcgagag ttataattcc aaggatggag aaaagcaatc cgatccagat gacattgctt 4020
tgagacggat tgttcagggtg ggtgttatac tacgacgtca gattcgtacc acaatagtgg 4080
agggcagcca tacctcccga ataaagggtg gttcatgtat gatggctacg aaacaatgag 4140
ctcgttctgt caacaatatg cgaagaactc acgaggaacg gatatgggaa agttctttct 4200
atcgaagaac cactggatga gtttactcat ttcatttctc ggcggcaggg acgacaggat 4260
ctctaggata tctaccgct gaacatggcc gaaaagcaga ctggtcccat caaccgagtt 4320
cgtcaaggta tgcgagacaa ctgattcgtt cgggggctca tcccatgccg cttcagtg 4380
gctaactctgg gctagttagt gtggcaacca agaggcacgg gttacgaac ttctcgcagc 4440
acatcttgcc agtcgtccgc tggtttatac acagaatgtt ctccgtccaa gaaggtcctg 4500
cctacgctag ttgaactacg agcatctaca cctctcagtg ctgaagagcc actggagaag 4560
ccattggaag atggagcaac ggttgacggg tcaactctgt tgcagctgat aagtcgcttg 4620
accatctcct ccaagcggtc aatccgttcg cgcacgagt ggccattctg ttctatacta 4680
gaagatgaca gagctccatg tgcgatctc tgaaagatac atgctgactc ctctccccga 4740
gcagtacaat tttgacacgg cttctctcta ttacatttca atctggtttt gtcagcacct 4800
gacgtgttct atgggggtta ggggtatcta gacttctga cgcggcagga ttgcaggac 4860
agagggatcc gccgccgacg tcgcttagca acccgggttt ctgtggtcag agtctgcatt 4920
taggtcgtcg ttgagcttca gcgggggtgt gacgaagcaa gaatagtggc acgcccgacg 4980
ctgcgctctc tccgtatcga gaaatttcgg gaatacatat tttccggtgc cgtcatatca 5040
tctgtctagt gaattgcagt aatgaagcg tttttataag tagcatgac taagcctgga 5100
ttcaacagtg actctgtgtc ctttggtatg tcacgcttta cttttgctta ataacaggcc 5160
aatgagagac aatgtgtata tctgactggt tggtac 5196

<210> 1860
 <211> 2533
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1860

```

aatgtacgaa acatcttctc tatatcaata cgtcaactga tggtagagca actaaccctc 60
tgccaatctg tttccatcgg gtcaggctct aaggaaaccc ggcaaaatgc gaccgctgct 120
gaagatatcg aacaggaagc agttgaagca atgttacaaa cgcgttctcg atatctcaga 180
tcgaatcctg tcgttagtgg aactgatctg gatatacctc ggcttggtc tctatatgtt 240
cgcgaccggc atgagtctga tctaccagac gcagcacgag cattctacga ggctgcagct 300
aagatcacag ggatatctct ttccactctc gtccgttggt tctcccaagc agagcttgag 360
attaccaaatt ggttgagaga ccaaagacgc atcaagcatt tcgccgaacg ctcgatgcag 420
gtagtcgaga attcggatgc tggtagagatg gaggagttaa gcgagcagga aatgccctaa 480
aaacttgcat atttaattct tcttttggca gtgaagtcca aatataatct acaccaacaa 540
cagagtcata ataattgatc atccatctc ttgtattcct tgaatctgag taggttaagc 600
ctcgatctgc ggtgtatagt gcggaaacaa tgtaaaatgt ggggaacaaa ttaggcctga 660
ggccgcaagc actaaactag tagttacgct agggcctagg gtatgcccat tcacgtgcac 720
tcatccaccg cttgctaagc gagacactcc attttgacgg gcattgcctc attcgaaccc 780
tccaagcgcc cgattgtcag ccagcaacaa cgaaaaatcg cagccagtac gtttaccctg 840
tgatattaag cagtgatgct actctcttgg aactgccagc taacatatct tttttccgcg 900
cctttctagt gcagatgtag gtcttccgaa catgccatta acccgttgc catccacaac 960
tctcgtctat cgtcaaccga atttacgcaa taaaagaatg ccggaaaatc gagggtgaaa 1020
gaagaggggt atgaatatgt gctgactgtt cttctcgaat agtttcgtca agaccctcac 1080
gggtaagacc attacccttg acgtcgagtc cagcgacacc atcgacaacg tcaagaccaa 1140
gatccaggac aaggagggtg tcccccgga tcagcagcgt ctcattctcg ctggaaagca 1200
gcttgaggat ggccgtacct tgagcgatta caacatccag aaggatatgag gcctggtcta 1260
ccgattgagt tttgcgcgtg gtatagattt gcggttgagg aggcggaagg acggttatct 1320
tgtgtcatag ttttgacgcc agttagccgc tcctagttag aaggagaagg ggtgtgtcgc 1380
aaggagaatt tgccgaagaa ttttgattgg gatgatgacg gttggctgac tatgcctctc 1440

```

tcaattttat aggagtccac tctccacctc gtcctccgtc ttcgtggtgg tatcatcgag 1500
ccgtcgctca aggccctcgc ttccaagtac aactgcgaga agaacatctg ccgcaagtgc 1560
tacgtacgtc taccggatta ccaactcgact cagtccatc ttcgacgaag gatttgagaa 1620
ctaatactag aataggctcg tctccctccc cgtgctacca actgccgtaa gaggaagtgc 1680
ggtcactcca accagttgcg ccccaagaag aagctcaaat aaacgactcg ttcattgctta 1740
cgtttttttc tgcgttgctg gtgcggaagg gtgtgattgt gatgagccgg attgtaacgc 1800
taaaaagggtt cattttttta caagcggcgt tgaaatgctg aagaaacatc agaagagctg 1860
gagtcgatac attttacatg gctactctcg gaaccagttg cagtcaatga aacaattgta 1920
aaatccagtg acccctcaaa tcgctatact tgtctttag ataatgtaa cagattacag 1980
tacaggtgag gtgtacatgg tgaaaagact tgaaactgca caaattggat acacgtgctg 2040
aaatgctgcc ggagcaattc agggttcgga tatcttgaag ccaccaaaaca atctggacag 2100
atcttgcatc cagaacatgc gcttgctcgtg gtcacatggt tcgtccttat catcatcgcg 2160
acccttctca ctatcaccct tcttggaaac agggcttcca tggcttcatt cacgtcagtc 2220
acacgagctc agaaacacta gttgtgggga aggggaaaac tcacgcgaag aacaagatct 2280
taatcgcaat cgcaaaccga gcatgcaaca caatgaccaa tatcaacagc gcccgactag 2340
ccttcgcac cgtcgacta agcacaggat acagatttct aagtaggaaa aagaccgtcc 2400
atgcaaagcc aacccccaca agcgcgccagt tcaacgctgt caacggactc caactaaca 2460
gcgcgaccgc aatccaaacc aaattcgagt acccgtagag cgcccagcac tccaccagat 2520
cagctgttga gct 2533

<210> 1861
<211> 1902
<212> DNA
<213> Aspergillus nidulans
<400> 1861

ggatgatgaa aggatatatg aatagaaggg attaaagagg gagatgagga gataaataat 60
ttactaaaaa agaatgaaag ttatatataa tataggatat tgtgtgattt atttagttat 120
agatatgtaa tatgttatta attgtttata tatataggga aaaggtggat tgttatagga 180
agggagagta aagggttagat gggggtaaag tgtaatagag ataagtagat gttaattaat 240

agtaaagggg gtgaaatgaa gagagtaagt gaaaagatag tgagtaagta tagtatagta 300
 tgtagatgtt gagaaaaggt agggaggtat atgaaattgg aattatagta gaataaatat 360
 tgtaaataatt aaaaagggtta aatggggatt gtgaatgaaa gaagtgaaaa ggtaagatta 420
 tatttagata aaaggatcgg gataaaatgt agtataaggt agtaataaga tgataggtat 480
 agataatata gataaaattg agttgggata tataatagtg gagggagaat ttaatgtata 540
 aagggtgttg tgtgttaagt tgtgaaagtt ttgtgtaaat attgagtagt gaattagtat 600
 tagttatatg agtaatagag gaaatgatta tattgtgaga aattgtatag aaaattgata 660
 agaaggtgaa taaataatta gtaaataatat gggaagcttt atatgaaagt agaataattta 720
 ggaagaatga actcaaact ttagcttatt taagagtaag tttattccat aaagaacgac 780
 ctctcaatt tgaataatgg ggctaggatc gatttttcca tccttcaaac cagaatgcag 840
 ccacccatgg aagacctcct tgatgtgctt actccgcgc accttgtcca tggagggaaa 900
 gttgaaagta atttgggtgt tatcgagagt cggatggcct tcggggagaa caggcgaatg 960
 cgctacctta gcaaaggcat ccccttagt tccctttaga atgtctaacg taggctgcag 1020
 ggcgccatcc acgacacagt gcgccgtgtg caagtataca ccaccttct tcacggcgctc 1080
 gacaatcttg gagacaacgt cgctgtcttt ataatcaaag accgcatcag ctccgagctt 1140
 cttacttagg tcatgggtgct taggactggc cgtagcgtag acagtaaaac caaggttctt 1200
 ggctgattgg acggcgaatg agccgacact gctagacgcg cccagatta ggaccgcttg 1260
 cttgtccgca ggagtatacc gagtatcgag cggaataccg atcgtagtcc aagccgttag 1320
 agccgtcaag acagccaggg ggaagatggt gccttcttca aacgagagat tgtctggaag 1380
 ggggatgacc gcttcggact gggccagggc gtatttttgg aaggctccgt ggtcggggga 1440
 gccgttcttg tagaaggacg aggcaaaggc aatgactcgg cttccgggac caggcacaga 1500
 gcctgccgtg aactcgggc cgagtttggc gaccacacca gctgcatcac ctccgatgac 1560
 cgcagggtag attggcaccg gtggcatgcc atagtccgc tggttaataat cacaggggtt 1620
 caaggccacg gccttcactt cgatgaggac gtcgttggga ccaggctcag ggggtggccc 1680
 cttgccgacg gccaaggac cgccggcctt ggggagaatg gcagcatcgt gctcggcagt 1740
 catggtggat gttggacgaa cagactttgt gattgttttt gggagagtct tocacctgaa 1800
 tatgcgaagc attaacggag aaagggatga tagatggtgg tgtgagatat atagatagga 1860

agtgtccac caccggttta tatcgtggca tttgcttgtg ct

1902

<210> 1862
<211> 2254
<212> DNA
<213> Aspergillus nidulans

<400> 1862

tgtcctcagc aggagcgaat ccactgccag ccccgagaat gacgttcgcg cagttcctga 60
gacgggcgta acagtcgaga atcggtaa at ggaagtcctc acaagaatgg tgtccccctg 120
cacgaccccc ggtccattgg atcccaacgg ggagtgtcgg atattgcctt gcgatggtaa 180
ggacgcggtc aattgcatca acagaccccc gtttgaacca aatatgtgaa attgccaaaca 240
tgtcaatcca ctcttcacg acctcgggcg atgggatccc agcgccgacc gttatcccat 300
caattggcaa gccttcttcc ataatcaggc ggcgcaacac ctggatctgc caggaaagtg 360
ctttggggga agcatagatg acattgcagg tgattgagcg atggggaggg atggacctcg 420
acagctgccg gagtgtgtt tctagcgttg ctcggttgta atagccacca caggcaaatt 480
caacatgata gtccgcctga atgatagccg ctacaagctc aggtgagcat gttgttggcg 540
tcacccctgc caccataaca tgtggtgttc ctagcagccg cgatcattttg gtttcaatgg 600
atgcatgagc acttccctca gctgctttcc gtagccgagg gcgatatttg cgacccagct 660
ctttaccaag tgggagagca aaagcagaca gattaagcaa cgatagattc gaagccatag 720
actggccgga cagattaacg acgttcatac ccgttccctc caaaacatcc tgcaccaggc 780
tcccaacagc gccaggccca aatgagagca catgggtagc atcgttcatt gcccaacaca 840
aagcgggcca gttaactcgc tcaacagtaa cggactgtat gagggcaaa agaatatcgt 900
gcgtgccata atcctgcagg ttccggagag atccattcgc ctggcagtaa actggtatag 960
cgagatcggt accccgcaag cgaaggccgc caatggcatc agtcactctt agctcgactg 1020
atgacagaag agaagagtga tagggagctg acactggaag gaactggaca tcgacgacgg 1080
accgacgcag gggaaaggga acgcggcttt ggtcgagctc gggcgatgcc ttgacgctac 1140
gaagtgtat gcatactcct cgcagagcat gtggtgtctc agccagaacg aacttgttgt 1200
ggccatttat aaggatata tagagcgaat ctccacctg gtcgttgagc tttcgacca 1260
gccgtccaa atgattaatg tctaagcctg tcacactcag taaatgtgac ggagcgcctt 1320

caccattttc caggcagtcg ataacttcat ttgcacacag aatacttctt ggagaagcat 1380
ggtgtgactc cagcccgacc caaaacgaca gttgcagggc aagggtcagcc gcgcggtaga 1440
aggatggcca tccgtgggtca gtgtgagata tggcgattgc ggcgggccaca aatacacctt 1500
gagagtgtcc gatagctccc tggagctttt ggcggactga ccaggggtcca gctggaggct 1560
gtacgcagta atagcatagt gtaggaggct cagcagagtg ttgattggaa agctataagg 1620
agacagcgcc aaatcttccg gcagtgggtgc ggatgcagca gcgtcgttga gccaggcctg 1680
taattggaac ccgcgcccag caaaaaatga cgatcgggtg gggatcgtg ctagtgattc 1740
tagacggcgg gcagaagagt cgagcaagtc ctgtataggg gcgcagtcg cgtaggcgtg 1800
cgagagatgg actaactcat cgagtccgc ccaattactg ggcccttgcc caccaaagca 1860
cgcatataat cgtgataggc cagcgtcgac agcatcgaga aacggtgatg gagtcattct 1920
ctttacaggt cgtcaaactg taggctaaca gatcagagcc atggctggga atgagcaagt 1980
atatcgtgta gccgggacca ccacctatac gagaggggga gaaacaagtc agcgcagggt 2040
cggcttacga gcaatcggag atcgggcgtg gcggttctca agtttacata tcagctgttg 2100
ttcttcagtc tttctgcag aactaggcca taacatgaat acagccatgg cgatacgaaa 2160
catggaacag acaattgcct acgagctact gattgagctt ttatcgtacg tttccttata 2220
ggtgttgagc aaaaaactga tcagcagcag ccat 2254

<210> 1863
<211> 2639
<212> DNA
<213> *Aspergillus nidulans*

<400> 1863

attggagtta ctacaatagt tcccatttga ggaattagaa tttctgcaag gtgtagatta 60
attgtctggt taggtggctt gtccatccaa cccgcgttat tctcaaate aagccctcca 120
ggaactgatt cagaatatta ccatactgca ggaaacccca atacaacgtc agagaatatg 180
tgctttgatg gcttcaatac gagaggccca atactgaggg taggtatact ggtgtagact 240
cagtatacaa tatacgaaac tttttact actccgtata tctatcccat ctagccctgt 300
ggatgctgac tatactgtga ctcttggtat tagctaagtt ttacttcatg agacaagata 360
taactggatt gtttcatgat aacaatccca tggtaataga aatgggtcac tgtcaatcac 420

cgattgctct ttgctgtatt aattttccta aatttagtat acagtgtctc attcttaggg 480
 tggcatgacg ctgtttcggt ctgtatcaga catatttcag ctggatata tatctoctag 540
 tcccggagaa actctgcagc atttaatcca gaaaagagcc ggtggctaag agacgggctt 600
 cagtggactt ttaatcctca tctttcccggt ctacgcagca cagtgtccag atcccgctgg 660
 caatactcga catgcgcggt caatcatact tgctgctctt cagccttggt ggcgagctc 720
 tctgcgcgcc tegtgagcac ttcaagcgca ctgccagaac gtctgctccg gccggctgtc 780
 tcaccgttgg aggaagcggg acctactcga cgatcggcgc tgcgtttgca gctttgggct 840
 catcctcgtc tgaggcctgc atctacatat cagccgggac ctacaaggag caattgacct 900
 tccaatacgc tgggcccgtt accctctatg gcgaaaccac ggacacgagc agttacaaga 960
 agaacaccgt cacgataacc catacgattt cctcacctga agcagggtcc cttgttgcca 1020
 gtgcgactgt caatgcggcc atggataact ttaccatgta caacatcaat gttgtgaatg 1080
 ggtacgggaa gggggctcag gctgtcgcgt aaggattttt tcatttgacac ttcatTTTca 1140
 tctccaactt ccaatttcat acgattttac ttattttatt tttattctaa cgaatgtatc 1200
 aactgctgc tgacgcctac ttttgagac tggctgccag cggagaacgc cagggttact 1260
 atggctgcca attccttggg tatcaagata cgctgtacgc acgcgtgggc gtgcagtact 1320
 actccaactg ctatattgag ggtaccggcc tcttaattct ttttctactc tccgggaaca 1380
 gcactgaaca tctacagggg ccgtagacta catattcggc gacgcaagcg cctgggttcgg 1440
 cgaatgcgac atcgtctcca acggtgcagg ctacatcacc gccatgtcgc gcgagacagc 1500
 ctccgatccg gcttgggtatt gcttcgacca ctgcaatatc tacggaaaat cggggctgga 1560
 cttgaccggc gatgtatacc tcggacggcc gtggcgcgtc ctgcgcggg tcatttatca 1620
 gaactcggag ctgagtata tcatcaacgc ggctggatgg acgactatgg cagaaggagc 1680
 cacgccactg tactacgaga tcgggaatac gggtgacggg gcagacacgt ccaaaggct 1740
 gtatcttagc gagatcagtg cggctgtcac caaggctacg gtgctgggga gcgactggac 1800
 ggactggctt gactggagct attgagatga gtctaagaat gattgcgtgt aagatgaatg 1860
 catcctgcaa gaaagtgaga taactaagcc acgggaaact gtctggatgc cgtaattacc 1920
 ccgttcaatg gcgttgagga tcattccoga gactctgtcc cactgttttg taggagcgtc 1980
 acgatatgtc gtcaaagcca gaggctctta catctaggta gcgtctgcca gccctacgat 2040

ggtccggtac aaagcatggt ggtatacact atcggtcttc tgacattatg gctttatcaa 2100
 cgcaagggtta ccattcaaatt gtgaatacag gtcgagtcag ttcaaggggt aatgcagaca 2160
 taaatcagat attcgcttga tgaatttcct gtaagtgaac cgccgaagct tcaaaattgc 2220
 tttagttctg taaggcaaga atgacaggac ccctggtagt accacagatt agagagacaa 2280
 gggcgaagat cctgtttcca cctggcgcaa agtccagggt gagggactga ttccgctata 2340
 caacgagggc ttgcaattgg atggacgtga tcctgctcta tattttaacc acggtttagtg 2400
 gatgcttgcg gttggaatag tgtagacagt agaatggcgg gtaggtaacg gaggacacct 2460
 tcgcaatatc cacgggtctg agtcctctga atacttaaac tgaatatcta aggcttctat 2520
 aaggctctga aaacagcaaa cgcccttata tgtctaatac atggcgcttcg ccaggctcgg 2580
 gactggagtg gaggaagata tgggttcctc cgccgtgccg ataacaaata ttactggtc 2639

<210> 1864
 <211> 2585
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1864

aatatggtaa cagctcaggc tcttttctct atctcctctt cttttttccc cctctcttct 60
 attgacaata gatttgctgc ctaaaactct gaataggctg cgtttatatt atccctgtca 120
 cacttaccgg actcgcttgc gtcagagtga gtctgagttg catttgacac cgcgctctcat 180
 tategtgcat cgcgcttggg tgcctttctt ttcttttctt tattttcctt tcctccctct 240
 ccgttgcttg tccatttcca aaaaaaaaaat attagattct gagtatgtag ttatttgagc 300
 ggcgcaagac tatagattgg agctgaagggt tagggtaagg ggctagtggg tgagggttga 360
 cagaattgaa tttactcaga aaagctaatt aataactagc tgatgcgcag gtggtctgcc 420
 gagcacttgc aatcagctat ttgcttata atccgttgaa atacgcctgc actcatcatc 480
 gcagacgagt aaaacattca tcatttgaaa ttggtatcac ccttgattaa cgccagtcca 540
 gaaccagct agaggatttc gagcaacgca gaaactccca aaaaagagaa gagaaaagga 600
 ccagagagct atgtcagatc tttccacaa actcaaccgc ccgcccggct cgctcagctt 660
 tgctactgt agatgccagc gcattaccat ccacaccatc agacctggac atagcatcgt 720
 cattccccgg tacaggctcg ccctgcagcc gaaggagtgt ccgcaatgta tcctcgtaaa 780

cctctgccat ctccccattc cgccaccgct ccgcttcctg ttctgttcca aggggaatat 840
caagattcca ctcttctctg gagacttttc cccgccgtct cctctcccct tcattaatat 900
tagcaacgtc ttcttccggt tgcgtttgca gttggtcttg atttctatcc gcgctctgcat 960
cgttcattcc aacatccgca tcgtcttctt cattgttgaa ttcttctatcc tcctcctcaa 1020
taatcctccc cagctctttc gcgtattccc tcgccgcccg tcgcggcgca tccctcctca 1080
actgcgcgac cgttgtagtt aacgactcaa gctgcgcata catcgacgca acccgcgccg 1140
ctaactttcc gtcaaatggc tcgtactcca ccgtttccag ctctgttggc gcagtaaagt 1200
ctgctgggaa aggaaactcc ggtgatgtcg agtcagccc gttgatcgaa gcggaggcgg 1260
atgcggatgt gaatgtgctc gttatgacct agatcgaata agaaaacgga tctgttagca 1320
caactgcata tctcaatata taaagggtgca ttaagaaata tgcagataca tcgtccacaa 1380
gttcgcgcac gcgctcgcgc atagtttcgg gctcattggt tggggctgcg gaggggggta 1440
ggtgcaggtc tagtttttgg cgggagagag caacgggtgtt gctgtgaagg taggtaaagt 1500
ctgcggcaga ttgaagttcg attttccggt aatgcgagga gtccattgtc tgttttccag 1560
cgagggtgtg gttctgaact ggcaagata tgaacttccg cgtgtattgt agataacggg 1620
catgatataa gacggacgcg tcggactcag gatgggcat tagcggatgt taagtgcctt 1680
gtagcctaaa tatattactg cctgaaccat caggctacaa actagaaagg ggaagcattt 1740
ctcaggcacc aaacagcagc agatcagccc cacaaccgac gtcattctcg atcgatcggg 1800
cttctgcttt gaaacgttca gacatgatat ttgcatgttt catcctaact agagagaagc 1860
cgccgctacc tacctatttg tcctaaaatc catcaaggat taaccaggct atgaatatgg 1920
gcttccgaaa tctcatataa gcaccctagc gcgctatgca atggcctcca acatcaagct 1980
catcgacaat acagctcctg ccgagcggcc agccccagac gacgcatoct tctccgagat 2040
aacaaccacc accagttcag tgtctagggt atggagtcga ccatcgatcc gtgcggagcg 2100
ggcgaagcgc cgttacgcga aatggcagcc tgagcggctg ggtgttgctg ctagtggaag 2160
caatgacatt gctgagcctg ggtcgggtaca gccgtcgtcg tcatcggaag acgggtgaat 2220
tattgcgtgc aagaaccgat acaaatcccc tcaccaatac aagcgcaatt ccggagaaca 2280
agagtcatgt aaacgatggc aacgacgaga gtaaaaaccc gcagcgtatt gcgacggaac 2340
aaatacagca gtacgatttc ggcaactggt acgaagcaga atcaggagct gaaaggtcaa 2400

ctactcacca atcaaaaaat caccctaaaa tctgtggcct aaaaccaggt agcgaactgg 2460
acatacttta tgaaaatcag cgcggttggt tcttcttcgg cgtcccgtc tactccagcc 2520
agtccctcct taacacggac ccggctcctt ggggtgaatgc cacggggaag cggagttttg 2580
tcgat 2585

<210> 1865
<211> 3446
<212> DNA
<213> Aspergillus nidulans
<400> 1865

accctcgcga ttgctggcga cggatgatgt gctccatcga aatgccagag cgccgaacat 60
cctccaagcg gataacgac tctgagcggc gccgaagagg attgaaggtg atatggtgcg 120
gaatgagctt ctgctcagat ccgcgagat ggaaatagcg gcagtcacgg agcagctccg 180
cgcgttgccc ctgctctcgc acatgcagcg gatagccttg gaggaggtgg acgagctgcg 240
cgaagacgtc gccggagcgg ttgggaacgc tggggggcac aatggctggc ggccgtagga 300
ggccgctgcg atctaggcca gggaagactt ccgccgggga agcaaagaag gccccgaagc 360
cgaggggtgaa aaaattaggg ctatcgccgg gccagagaa gatgtcgcgc gaaatctgga 420
aatgacggtc gccgatctgg attataatct gggattcgaa gagttgggac atcaaccggg 480
gaactgcggt taattagttg gtgcttttta attgtaaaac tggatttagg agagcgtacg 540
gctgtagaat tgcgcgtcgg cgaagagttt aacgaactca gctccatctt tggggaggca 600
atggtatcct agaggtaatg ttagcctatc ttatcgaagc cttggttgcg atagcttggg 660
ctgaatacct tgcagatgtc gggcgatttc ccggaaagtg acagggtcgc ggtcgatata 720
tagagtgcgg atattgttcc catcagggtt ctggtcfaat tgatcttcga agaatcgcca 780
gaagtacgag ggggctcaac aacaaccgtc atcataagaa cgaccgtacg gcgctgggaa 840
ccagatccaa ctaaccatca gacgcaatgg aggccccaga gagacggaag agctttgtgc 900
cgatctggat agagaagacc ttctcgggcg gaagtgtgca gactggtggc gatgtcttgt 960
ctgctgccat ctctgttcgc tcgattaaaa cgatgtggaa cgattatggc tttgccgcat 1020
ggcaggggtg tggattgaac tcgaggaact caggctggag gccggcgaat gccagcgtag 1080
tcagatgtca atagatgtcg atggctttag ctatatatca tgagagtgtc tgatgccaa 1140

aagtggaagg catagaagct ggaatctaaa gctggagctg gagctcaagc tgtgtccaag 1200
tcacgagcgg ccggagcgat cggcgagat attccgggtc ccctcacaaa caattcatca 1260
tgaattgtga tgattctccc catcagcatt gaatgctttt gctctgagaa acgcttgaaa 1320
tgggtctccaa aatgacttga ttgagccagc agtttctact acggagtatc gaccgttggt 1380
tccgcagctc tccgaattt caataatcgg tggagattac cccggtttcg gcgaccatgg 1440
ggcaatcact ccacattgag attctgaaaa gaaactaggt ttcgataatg gcgtcgggtt 1500
cgatttagtg tcgctgagga ctggagatgg cgatgcggag agtgggaagc ttgcggtttc 1560
acatggccac gggctcgggt gtctgactgt acacagtact aaaaagaagt atggacacaa 1620
atctcctttc ccgctctca ctccactaat gcactactac tatatttgct atagtagcgg 1680
taggcgtct actctgttcg tgactcgact cttattcgta tgagatcctc tccgcgaaac 1740
cagttgattt gagtggcoga ggcagaatgg cctgacctc acccactgtt ctttcggcgg 1800
acctgcctcg gttgatcggc cattgtggtc caagccccg agtgctctc catccctect 1860
cgacgtgct gcgacgaacg attgattggt taagggtcgg ggaagctcta gccagggttg 1920
gtcgactcga atggatgtag tcttcattgc ttgctaggtta cgggtacatg cttacagagg 1980
ctatcattcg caaggactac ccttccagc tcgttcttgc ctcgagtcct cgacctccac 2040
tctttctagc ccatcattct ggggaagggt ctctccgcc gccctgttga tgatctacac 2100
tgctgcagc cgtatatcaa ttttccctc ctccacttc gctggctcct ctccacagg 2160
atcttctat ttgcgagggg atcgcatctc tattctctg cccactctcg ttggttgatt 2220
atccttacac cgcttgcgga gttgagcgtc gccattgtcg tccgcaatga cagaacaact 2280
cgtttcgttc acgcctctgg tcgccccaat atccctgtc tctaacgaac aggtgtttta 2340
cgacttgcaa tggaaaacac tcttatcttt ggctgatact gtcacccgt ctgtgcgtgg 2400
ccccggggc cgaaatcgc gcgctacaa ggttgtagca caggcgaagc tagacgctgc 2460
gctcgagact ttaagggcct ccatccgcg ccccgacga gatacccttg taacacagta 2520
cttgaggaa aatttaacct ccatcccgga ggttogcaa gcattgcagc ggctcttcac 2580
tcagcatgtg cacaaggaag gacgaaatgg actgagtatg atcctcagtg ctttgaagta 2640
tgttgcttc ggtcaattgc cttttgtgta tgctgatggc cgtatagtag gaaagccggc 2700
tctttgctac ttacgggctc gatgatccct attcaggacc aacccttcta tgtccgagag 2760

cagattttcc agggctggag tgactcgcgc ttgccaccgg tgcgcgccgt ctatcgcgcc 2820
ctcactgcga tctttaagaa ggtgtgggtt acgttcagtc ctagccttta tccgacgctt 2880
ggagttcccc atgttcccat ctatggaacc ccgcaaatg gcttccaatt cgagtttttg 2940
caattccccc cagggcagaa accagagatg atcgaaacag atgtgctcat catcggaagc 3000
ggctgtggtg gcagcgtcgc cgccaaaaac cttgcagaag ccggcaagag ggtcattgta 3060
gtggacaagg gctattcatt cacaaccag catttcccca tgaagccaa tgaaggtttc 3120
aacaatctgt tcgagtctgc tgggtccgctc atgaacgatg agagtctgat ggccgttctc 3180
tttggctcta cctggggtgg tgggtgtacc gtcaactggt ccgcctcgct tcagactcaa 3240
gcttatgttc gccgtgaatg ggccaagcga ggccctccgt tctttacctc cttggagttt 3300
caaaatagct tggatcgcgt ctgtgacagg atgggcgtca gcgccgacca tatcaaccac 3360
aacaagtcca accgcatgat ccttgaggga tctcgaaagc taggttattc agccaagccg 3420
gtgccgcaga acaccggtgg cactac 3446

<210> 1866
<211> 5628
<212> DNA
<213> *Aspergillus nidulans*
<400> 1866

gatcattttc ccgtctttcg atagaataat ggcgttaatg ggctccgcgt tgtgcttcac 60
catatgcata atcttgccgc tcacatttta tctgaagata ttcgggaaga agattgaccc 120
aagggaaacgg atcctggatt atttccttct aatcatatcc tcagtgctag cggtcattgg 180
gaccgtttgg gcatttctac cacaggccac cattgttccg atatgagttt ccatgcgaga 240
tagtttctgt ttattggctt ccactcttga taacaatagc aaaattattc ctogttttcc 300
ctggatttag aagctccttc ttgaactgct tgggctggca tattccgtcg tactcccaaa 360
gctggatatat taattttgtc gtttgcttgt cctctgccag agaaaaacca atacttgtca 420
gaatgtcgtg cagtctctgc tgagtaaggt atcgcgagtt tgtgacgcag ggagcagggg 480
gcacaaggaa caaccttggc acaatagtta tagaggagcc ctgcggtggt tccttgggtca 540
agaaagtaac acaacgcttc aacatttctc ctcgatcgac tggatcaggg acgtaattca 600
gcactagggg gagtgatatg atgtgaaacc gttcgtcatt acttagggga agcgggtcgtt 660

ccatgaaatc ctgcttcaag atcccgggtt cctgagagtc taaatcaatt ctctgacat 720
 cgaggtgttt gtgctgagag catgcattct tggtagtgag cgcaccgatc tcgaggaccc 780
 ggagcttcag agacgtgctt ctcaatacgt tcaaactagg gctgatccag ttgacaagga 840
 ctctgcttga gtcgccgccc cggctctagag attgaccaag cttgcttgct atctgataac 900
 tttttagtc accgtttgct cgtatatccg cctcgagctt gcgcactaaa tcctggtcgc 960
 ctgatttttag tcgttgcgct cgctgtttta aaagtgtgtg atgagagcgt atgagagttc 1020
 gcgttgccct tgctgataag gctgcatttt tcttctgaac tgttggtggg cgagtgcgag 1080
 aaagtagcgc gggacgtctg ttctccgatt ttttcgtagc cataatgcat gtttcaattg 1140
 caagatgtac attgtcatag taaggtaatg tatggcttcg gatagcagac cgcttttttt 1200
 ttcttctctt ttctgcctgt ggtgaaaggc ggtaaaaaac gaatcacgcc aagattctag 1260
 gagggtggt caggtgaccc acagaggaag ccgcgagggt ttttgctaag cgaagacatt 1320
 ccgaacaatt cgactttcga cactgcgaca atcacgaca cagcgccaaa cgacagccat 1380
 ggccccggtt cagaagaaga caggtatgca agcttgagcg atccagacct tttattctcg 1440
 atatctgttg tcgatttttg gatatgttcg agagcatgga tctgtgttat acaggaattc 1500
 ttcatattcg tcccgcgcaa tctattccag gatgaaggaa ctgaaagaac cacgtatcga 1560
 ctcggttatg cttttgtttg attccaagat tccctccgac aactatactg cataccgact 1620
 cgaaaattca attctaaaat aaatcactca cattcctttt tctgaacagg caagtcgaag 1680
 cccagcgaca aggctggtgc tgccgccaag gcagtcttga aggggtgcagg cgtacgtcta 1740
 aaacgtcttc aattatgaat tatcacagaa ccctatggct aaaatgttac tcgacatatt 1800
 caggcgcaca agactcgcaa gatccgcacc tccaccacct tccaccgcc caagaccctc 1860
 cagctgtccc ggtctcccaa gtacccgcgc gtgtccgtcc ctcaccttc tcgectcgat 1920
 gccgccaaga tcattctcta ccccttgaac accgagagtg ctatgaagaa gattgaggag 1980
 aacaacaccc ttgtgttcat cgtggacgtc aaggccaaca agcgacagat taaggccgcc 2040
 ctcaagaagc tatacgatgt tgagactgtc aagggtcaaca ctctcgtag gtacgtccg 2100
 gaagatctta tacgaaagaa aaagcagcat ctaactagaa tacaggcccc atggactgaa 2160
 gaaggccttt gctcgtctta cccctgatgt tgacgtcttc gacattgctg ctaccaagct 2220
 tgctattgtc taagtgattg attttcta atgggtctggga aatggttttc ttttgcgcgg 2280

tggcttatat atcggcccta cagctccctg ctgttggtgcg ataacaaatg gctgaatgaa 2340
 taaaacaaaa gagctttgat gcacgagtat accctgtgta gttgtcagcc aggtttattc 2400
 catgaacctc tggagagata acagtagtca cggttctata cacggcgctg ggaacctaaa 2460
 gtagtttgag aatatgtaaa tcgaagagaa gacttaagac tgagcttcat tcaaaatgta 2520
 ttgcattgct atagtacata cagggtccgc acatcattca caatacacca agtctccgtg 2580
 tctacagtga ccgcaaactg ttccgaccag atggtggcag ttataagaca tcaagccctg 2640
 aacctctata acctccgtga attactctag tcggaagtaa tatggacagt tattgtttct 2700
 gcatagcttg caaatgcttg agtacggcat tgttggtgtc cagccaacgg tcgacacagt 2760
 tcattgcgca agcttcttcg ctcttctcca accgactgga tgtaaccttc gaggtaatgc 2820
 acttcttcca gcaagcatcg gctaggtgat ggacatctaa gcaacacgcg tgtgttagca 2880
 gaggctaaat gagcaatgaa gcaagctcag caacccaatg gttgagaaag aaaaaattg 2940
 cggacggcgt actttgctgg atagcggcct tctgtgattc tgtttgagg atctggtgca 3000
 gctctttttg gtcggcttcg ctgagcttgc tgacatcgag ggtttgttcc attctgtcgg 3060
 tggctctgtg gaaattgctc tgctggaaat tgtaaaatcg agtttgctgg acagataaga 3120
 gtggcgggta cggagtagtt gtcaactgag atgttgctgc gccgaaaaaa tgacatcgat 3180
 ctccagagc tagggcggtg agagcatgca ctatctgata aggtcttagc ctggttctta 3240
 cgcttcttag agctctaatt tctttctcc gcgacgttga gtttgacttc caaacatatc 3300
 ttttaagcga ttccggtact ctctgtctct ttgaagatcg attttcatc aactgaatca 3360
 cgaagcccat aaagaagatg cctccgatcc gcacatctcg caatcgcaag ccacccccag 3420
 cgggcttcga cgatattgaa gacactttgt tagagtccag caataaaatg aaagatgccg 3480
 agaatgcgcc gcatgaggga aagaagaagc acgaggtcct gtggcctatc ttccagatca 3540
 ctcaccaacg tcagtatctt taccctagtc ttcatacacc attcaaagtt ccaactccct 3600
 gaacttacct gaaccttatc aatataggct caagatacat ttacgatctt tactaccaga 3660
 aagaggctat atcgaaacag ctatatgaat ggctcttgaa gaacgggtat gcggatgcga 3720
 acttgatcgc gaagtggaag aagcaagggt acgagaaggt aagttcttcg ctgttatcac 3780
 tcgtcgcaat atatatgagg ccggactgac aaacttctca gctttgttgt ctccgctgca 3840
 tccaaaccaa ggaaaccaac tttaacgcca cttgtatttg ccgggtaccg aaggctcaac 3900

taaaggagga tcagatcatc cagtgtgtca gctgcggtatg ccgtgggttgc gcgagcagtg 3960
 actaagactt ccttacgggtg ctttgtgcct atatgttaat attgccacac atcggtgaag 4020
 aatgacagcg gggtcgagtg gcatatccct tctgcggtct ctcagctgtg cgcattatgc 4080
 atgactcgat ctggcctggg tgtttcgacc tggggttcgt gaagacagac gttcgacact 4140
 gcgtggacaa actggtaaac catagtacct gtccctgcag caactctgtc ggcccaaaag 4200
 cagctgggtca gcagccttgt tgttctcccg gcctacgtag gagtcagtct cgcagacggg 4260
 gcggcgtgcc aattatccct atttttcacg tatgttctgt atccgacctt gcgttggggac 4320
 gaaatggtac ccctgtgctg gcaccgagga aaccgggcac ggctatgggtc gatagacgca 4380
 ggagttttac agttaggatg tgtttacggg cttttccata atcagatgct caggtagata 4440
 ctatctctta accaagttcg aataagacac agtcgtaatg gcagtgacaa agatagcaat 4500
 gaagacggcg aaaaagaaac atgctgatat aaacgctgca tactcatgta taccctaaca 4560
 gatatcgctg taaaggtcgt cataaaatca tctcaggtaa tcaaagccaa caacgacgag 4620
 ccctacctcc acccaaaact ccaggagaa tgattgtgaa agcaccaaaa tgagcggata 4680
 tagagaaacc ccggtaaacg ccagctcttt aatcttagga accaatgggt aagtaggtat 4740
 taggacatgt gcatggccaa atccaaagtg aacgcccggt gcgggaaaac aaagaataaa 4800
 caaaactcaa gacaccactg acatgaacaa agacattttc gtggacaact cagatctgtt 4860
 ctggtaagga ggaagataaa gcaacaaggc atgaagcgtc aaggccgctg gttgctgccg 4920
 cgctgaaaag ttggctgtga gatatgggat cgagatttct aggcacgtc cttgctcgaa 4980
 cccctatatt tttggaatcc ttgtagaagg tcgacaccgt ctacttctctg tgggctgtca 5040
 tcaaaaagat gccatgagaa aaaatcatcg tgcgcagaat caatgaagcg tccagagtca 5100
 ggaagttttg acggcgagtc agaaaaaaa agtctttttg acttattcgg cgataagggc 5160
 ttaaggcccc caatccggtt gttagcactc aaagcagtga tatctgcgag ggcatttcca 5220
 gttggtccat gtgcttcagt acgagcacgt ttagccgagc gtttttcagg ggaaccgtaa 5280
 gccgatttag atacaggctc agtagtcggg tcggcaaaaa cgtcgaagga aacatgaaga 5340
 ccatcggtg gagtataagc ctcgctcatgt atgttgaagg caggactcca tggaagatct 5400
 tcatccaggc ctagtcgctt tattggggag ttgaccatgt gctggatatt cttgcgggtg 5460
 tttcgaagat tagtgtttgg tgacactgat ggaggcgggt tcgcaggctt tttgaacttg 5520

ataacggggg tcagggggcc tgcaagcacg tttatatatt cgttgcgga cggagaggaa 5580
ccaacaacga tccctgtttc tttcaagtac ccagagtga ttggcgta 5628

<210> 1867
<211> 5675
<212> DNA
<213> *Aspergillus nidulans*

<400> 1867
tgggtggtgt ttacatgctt tttacgtcgt ccgctcggct tgaagctacc acatggcagt 60
ctcggatgac tctttttatt gcacacggta acgatagcca gaggggtcat attgtcgcgg 120
ccgctaagtt tggattcgcc ctctgaacc gcaatacagg cgagctgtca tacatcgctc 180
gcccgtggga tgaaccagat ctgctcagaa ggtgagttga attgtgctct gtgaatcgaa 240
cgagttcctg acccatataa cagaatgcgc ttcaacgatg gggcggtcga cagcaagggc 300
cgtctctggg ctggagccat gaacgatccc aagggtccaa gtctgatcaa tgaaggggtg 360
cttttcggc tagatccaga cctgaaactg agtcgtatgg ttgagcagtt gacgatacca 420
aacggtattg gctggaactc cgccaacgat acgatgtatc tgacagattc cccaacgggg 480
aagatcttcg ctttcgactt tgacgagagc actggagaga tcagtaacag gagagtccat 540
ttcgacactg gagagccaaa agaacctgac gggttcgcca tcgacagtga aggatgtatc 600
tggagtgcaa tctacggcgg gggtaagggtg atccgcatcg ataccaagg caaagttatt 660
ggcgagatct cacttcccac ccgaaacatc acctgtccg cttttgtggg gacagaacta 720
ttcatcacca cggccaagga cgacaaaaat gacgacaagt tcccggagtc gattcggtat 780
ggagggcatc tctacaaagt tgatgtggga gtccgaggac aaccaagaca tgagtttcgc 840
ttcagtcaat gaccattact catgtgagga taagccggag tgaatcatat tgttgggggt 900
taatgattgg aaatcattat tgctgaaaac ggtgctttgg atcccagggt cgaaagcctc 960
aaaatgccct aaagctcagg tctgctgcc ctccagactg gacgaaattg gtccctttcg 1020
gatcagtcac gcatatattt cttagcagcc gaaaccgatt caatagttct ccgatctaag 1080
catcttacc aagacctgtg taacaatccc caaaaagggg cagcgtgaa tccggcctcg 1140
ggggacgagg tacggttggt ctgagaccaa gcattgtcag cctgtcttca cgccgttacc 1200
atagtacaaa tgttgagcat acctttaatg ggtcctgacc ctttgaggct taagctgata 1260

tctctccgagg aggcttggac cgcaccaccg aggttgctcg tatcagttgc cgagtatcca 1320
ctcgtggcta gccactgct ttaccaaga aagagaagta ctccgtacgg acaaaagtac 1380
ttcgtccttc cagatcgtct gtgcgaccca cgtttttgtt tctctcgaaa ggtaccacgt 1440
acggccgaaa ggaggtactc gctaaagcag tatagtatat tactggcggc tcggtattgg 1500
ccaggtgaac ggtacatcta cggacagaga ttgggggtccc aactccacgg taatacaatc 1560
ccaatgcgac ttgagaacaa tgccattatt ccccgttggt attcctgcgg tcgcgtttgc 1620
cttgaaatct gtgtaatagc gaatgcacgc gctaccggga tcgcttcctc accaagagat 1680
gcagtgttcc tgccgtgtct gagctaactc aatctagact agaacttaat tcgaacgatg 1740
aaagcgtgaa ggaaactaca tgcattgtcc tgccgagttc cagcatcagg tccttttcgg 1800
aacgtgcaat attccaggtt ggacttggtt tcaccgacct gtatattgat gctctgtact 1860
gtttatctgt ctggttcacc ccaccctgct tgcttcgtac atgggtttcaa tgcaacctga 1920
caactgcgtg tggagcgctt agctcggaat aaaatcgata atgaccctac ctcgaggcag 1980
catgagaaga cccaattcc ataagagggc ggttacagcg gcacagacga tgggtcttga 2040
gaacaaaaaa aaaagatgga aaaagcaacc atgccacgca ggcgatcaat ctgatcgaga 2100
tcgaaagaaa aaaaaaacg accattacca atggacatga attaatgact aaatcatgct 2160
ttcaagacac accgactcgt cgcgagcgga cagcgcatga aaagccttga actacaggcc 2220
tggaagtgt tggagaaggt cttctatttg ttcgtagaaa tccccgtca caagggccaa 2280
ccaatgcaa agccatgcat tctctctctc tctgtctctg tgcacaccac acggaatcat 2340
tctcctcact tactctttgt cttctctggt ctcttcaaga caggcaggca aacggagcgg 2400
aacaataatc cgtcgttgca gtttgtagcc taaccgttcc ccatggtcgg agtggaggcc 2460
gttcttaccg tctttcacga ggcccataa tcccgaattt atggatttgc acgctacggg 2520
gaaactaatt ggagtctatc agtcaattag gttacgctat ctctcccagc ttggcccagt 2580
ctaacgtgtc actgcctcgt ctcaaaagct gcagtattat cctccagaat tattgatgat 2640
gtgcgactac cctccacctg tcggcatgga cgtgcagcaa ccttctcgcg cggccttcgc 2700
ggttgatcga caacgataaa atttgaagat gtgtcttcta actttcgtat ggaaattgcc 2760
atattgatac actgactctg acaaggatta cagcgttggc ccatgcataa agaatatctt 2820
ttggtggttg ttgctctgac gaccagttg gctggctatt cgtgactgac acatcctgaa 2880

acgacagact cacaccactc accaccacag agcatattga aggatcgggc cggccagtct 2940
 ctgcacgcgt acggtgtgca ggttccacca tgacttgagg agtaagaaga agaagccgac 3000
 aacattagga cgttgctgag ccatccattg ctgaattgac ctggggccact caccgtcaga 3060
 ttcgtcgatg caccgtcgtg cgtcgcccat cggatctcga acgagatgcg gaccacaagt 3120
 ctacagtact gtggtagctt aagggctgaa gcctcttcac tttgagacac ccatgtccgg 3180
 cgtagcccaa agtatattga cgcccacgta tacgtaccct gaagcatttt gcgaagatag 3240
 actctctctg tatggttaggt ctccactggt gacagaactc agcctactat cgtcagggcat 3300
 tgttgccctc gtatagcgcg gtaatcacgc ctctgtctat gcaacgatca gttttgggat 3360
 atgtcatgag taaggcagtg gtcacgcgac ctaatgtcgg ctcatgaag gggctcctggg 3420
 tattcatctt ttcggaacga ccctagtgca aattcaggat tcctgaactc ctagtctcta 3480
 tgcgagatga tacatatggt cggcatcttc ttggaatcct tgttgcttcg ttgttttgtg 3540
 cccaatgttg cagcggaaac atactccgga tcatagcctg attctccttg tcatttaggt 3600
 gtctggacac ctcggtgac tgttgattgc tcttcccgtc ttgaggattt gtccacatt 3660
 gagttacgac tcgaaagtag gacgtaaadc atgtggagca cgccagggtg tgagttttga 3720
 gattcgcttc ccaggcgaaa ggatggactg gcaccaatga aatcacgtta taccacaata 3780
 agacatgaag ggaccattgt gtggtataca gcctgaccgc cgggacaatc ggactgacct 3840
 gataggacga gaattatgtg agtgacgac aatcacagaa ggagcgtggt ctcgttggag 3900
 ctctggagct ggacggcttc gaccggcccg agcctgggag acggcgccaa ccttcccagt 3960
 catggaggca ccacgacct caaagccacc cacatttatg cagaacatca agaaagccga 4020
 gccatccgta catacataca aactcggatg gtagccacca tagccctggc cggactccaa 4080
 cagcaatgtc tgcagatgcg gagttgatca gataggccaa gataaccaca ccatcacagg 4140
 aatccaagcg gaccagttgc agatgcgtgg aatgaagcct ctatcagcac gtgcagcgtt 4200
 gctcgtcaat ctagacgtgg tcttcaagtt cttttccttt ttctaggggc ccaaagtctc 4260
 ctaccgggt cttctgatct tattttccac gtcacttcta gcgggagtcg acgaaaccgc 4320
 taggcgcgt tttagtactt cgtgccacaa aaaactcctt gaacgaagtg ctaccgtcgt 4380
 gccaatgtg gcaactgtca gccaaatgtt tcgacaattg agctgctgag ttgatcgggt 4440
 ccaggggagg cttagattct tcaagccga tcccaaatgg ggacactaca taacttccac 4500

gttaccagcc atgcgacgag gagtccaaga tcaacctagt tatgggccgt ggggagaaag 4560
 ctcaccccca cggattgtct tggaaggac ccgccatcct ggagtttttg ggccaggccg 4620
 tcggtggtat gaccgtacta tgatgctatc gtgagttctc gaacaccgct tcgaaaggca 4680
 caacggtaact tctgtcggag tccggatagt caggagcggg aagtactgag tctgcggagt 4740
 aagatcaaat cttcccgctc ctggataaat aagattctga atagtaatgc gggtcgcctg 4800
 gccttttagg cgcacaaggc tagtcgtagt cgtagtgcc accggcccaca gcgagggctt 4860
 cctgccacct gggtagcgt aactgccgcc ctgttctgtg acgtgcatgg ccaattgcct 4920
 atccctgcct gcatggggca tagcatcgaa tccttggtt ccttgagggt gccggcctcc 4980
 actaaatccg accatgacca tggtagcggc gcgcctctta ggtgctccgg gtcgctcacg 5040
 atgtttcccc agccccatcg ggcccacgcc cctgctagta gcccttagt gctggcgcta 5100
 gtttgctctc agaaacaacc ctggctggcg accaattaaa ccgctcgtat gggtagctact 5160
 ttcgatgagc gtccgccgac atggcataaa taatcataat acggcagtaa taatgataat 5220
 aacacaccga atccaatgcg aaaaggtcca aaggtagaaa gattgaaaca aacaacacac 5280
 ttgcgtcaca tcctctgagc ccttcctctt tctgcccaat tggagtctga tattegatct 5340
 ccaacatttt gctttgtctt gaggaacac aatctgctcc ttcacacttc cattcaaggc 5400
 gaggcacaga tggatgcaga cctggctggt gcaaataaca caaagtacgt gtctgagcct 5460
 gcttcgttgt caagtcgatg gcctggagcg aggaagccgt tgagcgtgc tgggcagtct 5520
 tgcgagcccc gtacaacacg tgtatgttgg taccgtattg tacggacagg tatatgacat 5580
 gctttccctt ttgctgcct tgaatattct attaatataa aaatcaaat ttcttttcca 5640
 ttttatcttg atttatttt atttgtttt ttgct 5675

<210> 1868
 <211> 1620
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1868

actgaggaca gaccttttcc ctcccttcca tacggcggcg aaaccatcg agtgtaatcc 60
 ggccgctgtg atttccctcc caccaccgc ttgcgtccgc gaggccatgt ctatgcttga 120
 cgcgcctcc accagcatgc ccgatctcca acgcaccag accgtatcac agctgtcgaa 180

atatgatcgg aaatctagaa cagcagctaa ttatgggtcaa ctactagaaa agcctgacca 240
 ggagcatgat catgaagagg atgaccagga ggaggaagtt gatgaggttg tcttggagga 300
 tatgaaaaag ctggaagaca actttccagg gatttcagat cgcttccgtt tgggtgaatag 360
 gattggtgaa ggtattgtct gcaatgcacc ttcatttacc atacggcacg cccggaacac 420
 ctggatcgcc tgactaaact tataatctgg tttataggca ctttctctac tgtatacaag 480
 gccgaagatc tcctatacga ccaactaccga aatgattggg atgtatttca agataactcg 540
 agagatgaat cgacaaattc gccgtcaaaa cgtcgtcgag tagaagacga gaacgggaat 600
 acgataccca tcaggcgaac gaaaccacga tatgttgcgc tgaaaaagat atacgtcaca 660
 agcagcccac tgcgcatcca gaatgaactg gaactattac atgatctccg gggatgccga 720
 tcagtttgcc ctctgataac tgcattccgt catcacgac aagtggtcgc cgttctgccc 780
 tttttccgcg atacagactt tcgacttcag taccgaacgt tcatggtggc tgatatgcgc 840
 cttactttc gatcggtgtt cactgcatta cactcggttc ataagcaca tatactgcac 900
 cgcgatatca agccaaccaa cttttgtac aatccggact tacgggaagg cgttttggtg 960
 gacttcggtt tagcagagcg cgaaggctcc gagtatacag ggacatgtct ctgcacaagc 1020
 acgagccata tacgtcgcgc gcgttacacc cagagttacc actataccca ctgtgocctc 1080
 tccggcctcg ctataggcta tccgaaaagt gactctcggc cgtcaaggcg tgccaatcgt 1140
 gccgggacgc gagggtttcg tgcacctgag gtcctgttca agtgcacctc gcaaacaacc 1200
 aaaatagata tgtggtctgc cggcgtgatt ctactaacat tgcttggtcg tcggtttcca 1260
 ttcttcaact cagccgacga cgtcgacgca ctgatagaaa tggcgagcat attcggcacc 1320
 cgccgcatga aaaatgccgc tgccatgcac ggccagatat ttgaaaccaa tattccgacc 1380
 atcgagaaaa aaggttatag ctgggaaaag cttgtgaaat ggtctagctg tgtagaagag 1440
 ctgacagaga gtgagaaaca agctacccga ctgttagcag gattgatgga actggatcca 1500
 tccaaacgtc taaatgctaa agaggctatg cagcacgaat tttttactaa ccctatcgat 1560
 catgatgttg aatggggggg gccgaagac agcgcagata gcggtaggga agatgaaggc 1620

<210> 1869
 <211> 2654
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1869

tggtttttgtt gtgcagataa atgatacgtt aatcattact gaataccggt gtttatgatg 60
atctaaatag ctagctgcac atttcatctt gaatgtgaag taacgaatgt actgcagtat 120
attcccttcc gttgaatcag ctgcctcgtg aagtctatat atagtctgca cctgggcagc 180
caatggcctt gactctacta tgaatattaa acattagtat agagagacat ggatgcataa 240
cgagagacta acaatatcat acacgtatag ctaagcatga gtggcaggaa accctacact 300
ggaatacggg gaactccaag ctgggctgtg cgggtactat gcttacaata atttttctcg 360
tataaggatt gccccagacg cttagtatca tttgctagct ggtatgaaat ggggaagggct 420
ggtctaagca acatcaagta gtaggtatag aaagtgaagt aaaataaaga ggcttggtca 480
tggatggtga agtacggatg aaggggctgg atgaatagat gattaaacac ttatggtata 540
aagatgtcgt tctttcactt cgttcctttt catcatttcc gtacacgccg ggcattgattt 600
actagattct ctatcacgcc ctcgaaagcc tccttttcgc ttaagagacc atcgcggcgt 660
tttagccaaa attcgagtac agcggaacgc gcagcgtgag ctcgtaagc tctttgacat 720
gggtttgtag ctcaagtgtc gtgaggccgt ctagtgccgc gtcggtggtc gcgcaaagtc 780
gccgtaccgc cgcgaggtcg agctctggtg gtggtgacgg ctcgcgccgt ctggatgacc 840
gctgccgagt cgcggtgctg gatgcacgtg ggctgttagc ctgctttgtg agtctttcct 900
agcaaggctt tgcgagcggg acaatgggcc gggcagtcga tttagatccg tcaatgtgaa 960
tggatgggag aatgagcttt ttttgttttg atgcaggtag gatttcgtct aggtccacgg 1020
ggaacccagg gagacgagga aaaggcgacg aatccgggac ttgacccaat tctgaggttg 1080
aagcgggggt ggagcaaca gctgagacca taatgagagt gagcgttcag tgctgaagat 1140
ggcagacgag ttcgggatag gttgtaagtc cgactgcctg gatagcgcag ctttagatgc 1200
aggaaaaagt cggtaaggg tcccgtccag acgggtgagt aggtcaggca aagatagtat 1260
agattcgaag tctattagag gaggctagac actgattagc atgagaacaa cgagacagct 1320
tattgcggtg gacttacgac aaaaggcggc gtcgttttct gggaggactg taacgaggcg 1380
ggatcaggtt cgtcgaggtc tgcattctggc tcttgaaac cgtcgtcgaa gtcgcaaag 1440
tcatcatcac cccctctc gaagtcgtcg aagtcatcac cgcctacggg ttcagcagaa 1500
tcttctcat ttaatgttgt gttttgtcca gtgtgattcg gatgcgagga gctgtttgag 1560

tgaggcagaa gatctgaatt ggtcaatcgt ccctgagttt ttttgccctc ctagaggtta 1620
 aagaaccgga tgcttaccgg gtgagtcoga gactgtctct gttgcatccg gcaaagtgtc 1680
 gctcggccgt cttcgatgag cacgtggacc ggagtgtatt gacccatcat ctggtacgtc 1740
 accaacttca gaaagtagcg tttccggtac aggagtcgtc gtggtgttgg cctcgttgaa 1800
 cttegtggga gctaccgacg ggcttgtggc ttcggaggtc ttcgtgacta tatctggaac 1860
 agcgtccgct ttccgttttt catacgcctc cgtcccagga acatcacctg aacttggttg 1920
 acctgggtca acctttttcca ccacggtcog ggggaattgg gtaccccccg gggttacaga 1980
 ccggcgatgc tgccccgag cggaagggtt tctgctgctg gagatcacct caacctcatc 2040
 aggaacagca tcttgctccc ttttctcata tgcgcttgct cctgggacgt caccgtgtga 2100
 agggacatcg tccactttct ccacccgggt ccgggggtaca ggagaagcac gagacgttgc 2160
 gcgggagcga gaacgcgagt tgccttcgct ggcattctgag aaatgctctt cgtcgctatc 2220
 ggaggctata aaatataggt attagtcaat gagctgccgg cgagtaactg tgcgtctgag 2280
 cgcttgagcg gcttaccatg gtcagggggc cctgggtcct cgagctccac gctctgcctc 2340
 gggggctcca agtacgagct ggtcggagga gaggggcgtt ccgtcatgga gaaagagtac 2400
 gctctagtat tcaagatcgg tcatgtaggc atagattatg gctttgaggc tcaacagaag 2460
 acggccagat gcacaaaagg aggcaagggt ggagaaagca ggttacagct tggataattc 2520
 agaccatctg gtgacgaagt cagccccgat catgtttgcc ttagcgccta aggctgaaaa 2580
 ttattctgcc tgagggtgtt ataatatagc cagataagcg cacctcaacg tgattggctt 2640
 ttataagcgc aaca 2654

<210> 1870
 <211> 1926
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1870

atcattcttt gggccggggc gctcttggtg gtcgtcgggt tgattcttgg gatgtattgg 60
 agacggtact cgcctttatc gaccagagct ttttcaacag agaagcataa ccagtcggat 120
 gcctccgagg gctctgcgca ccgacatgat agcctagatg agatcgtgga ggcaatgagg 180
 acgttcacca cccggtgcaa tatcctgctc gagccgcttg tggaaactcac agatttcctg 240

tcgactcaaa gatccgctac ctttgcgact acgcggccgg cccttaccac gttgtttgtt 300
 cggattctct togtaactcc gatatggata actttgactc tgcctccgct ttacctcatt 360
 actaccgctc gtgtcattat gatagtcggc acaattatac ttacatacca ttcgcgaaaca 420
 gcaagagttt gccgcgtcat tctttggagg tctcttacta ttcgccgtat atgcggaatg 480
 attaccggctc tgtcatttga cctggatgct ggcaagactc acattcagag tcacggtcac 540
 gccgcaaaca ttgcaactag gcgtcgcgga gactcgtcgg gcgttcgttt tacttttattc 600
 atttatgaga accagcgctc ttggctaggt atcggttgga cgtactcttt atttccgctc 660
 gaacgcgctc cgtggacgga tgagcatctg aatcctgttc cttcgaagaa cgagttcgag 720
 cttcccaggg tgcaaagcgg gaatgcaaag tggcgggtggg ttgagggcag cgaatggcac 780
 attgatggag ctgatgacga tgtgtctgac tccaaggctt ctgatggggg cggttggata 840
 tactatgata ataaggatat tactcaacat cacaccatt catccgctc ctaacatatc 900
 tgcagtggaa cgacggacgt cgcggtctat acggatggga ccgttacact cgccgcagaa 960
 agtgggtgctg ggatgccgaa ctgcgggaga tcacaccaca cggcaagccc ctagatgcac 1020
 catcgcctt gaccagggc ttggcgcaag acatccagca gagcaaaacg ggaaaacccg 1080
 atgccaatgc cgatgcttca acagtggacg ctgattccgt gagtctcgcc ccgtccacaa 1140
 cctctagcaa agcccgggc cgacgttggg tcggcagttc ctcaaactcg aaaagtgtaa 1200
 gcgacagcaa aaacagcagc agcacatcta ctccaccagc cacaataaac aatgactccg 1260
 acacccctgg aaatgcgaaa ataacctctt cttctgccac tagtactagt cacacccgca 1320
 gcaactctc gttaaggagc gtctcttcaa gaccggtgag catct 1380
 tgtccggtct ctctgggagc aattctggtt ataacaccg aagtccgcat gggagtagca 1440
 cggtcgcaag cgatagcctt agtattcggg agaaggagat ttcggatgct caggatcggg 1500
 tagataaatg gggggctagg gctacggggg ggacggaacg ggcggagagg gagcttggac 1560
 tcggtgatga ggtgaatatg ggactgagct gagttgagct acctaaagtct tataccg 1620
 gtggagaatg tattcctaaa ggacttagtc aatctgcctt tacttggggc ctgc 1680
 gaggatcgca tggatcggg atcattatct cttttcatta ctttggacgt 1740
 catggtcagg tagatgttac agagatctag tgtagatacg tattgaaacc tgggtctggc 1800
 aggattgtcg cgaaccggaagg aggtgtat ccaggtatat acccctttac gcgagaatca 1860

agtcacagcc tagcctgttg agcacgtcag cccagtgtt cttcacccct ctcgccggtt 1920
tatacct 1926

<210> 1871
<211> 1100
<212> DNA
<213> Aspergillus nidulans
<400> 1871

tggcgataat acgactcact attaggaaac tcttcacata agcatatttc tccgactgcg 60
ggacgtcata cgattgacga aggtcggctg agaaacgcag tgcctcgcgc accgtctgca 120
taggttcatt gacatccatt tgctctgcat aggaagtgcg tcgttgaac gatgtaccat 180
gcttggcacc atctacaaa atgtcgccag aaattacgcc aatgttcttt cgcgcggcga 240
gaacgtcaag cagggctcgtc tccccgctc cggatgcgcg catcaaggcc gtcagtttac 300
caggctgtac gtaaccgtag atgttggtga gcagtcgtcg agtgccggac ggcacaggaa 360
cgtcatagca tacatcttcc catgttagga ctggcttcga tgtcagcaat atatcggtc 420
cagggccacc aaggctgttc gactgtcag cagcgcgctt ttcgtccagt gctttgttca 480
gtttcttccg cccagcattt tcttctgat agaagggtgac ggtcttgccg ccagcgttaa 540
acctaacaac ttcaccgaag tacagattca tccctaagaa agcaatgatg agggccacca 600
tgatgccaaa gttcctccag agatcctctc tgttatagtt gaatgtggc gataaatagc 660
totgaccagg aattattggg gaacctgctt cacctccagc aagcgtacac acttgggtgg 720
tcatatcggg gtatccatca ccatttggga ttagggactc gctggtacag gtcattattga 780
ggctttttaa ttcgttgacc atcaagctag caaatccaag cccgaagggg ttgatatagt 840
aaaaccatcg tagccaaacc tgcgcattag gccactgaac aaggtatcca gacgttagta 900
taaacaaagt gatcaagaca gatacaaagt tcattgcgtg atcgaaagca ggcgacaggc 960
aaccgatggg tctgaagatg acagacatgt tgatatagcc cgtataaatg agcagcacia 1020
aagtgaagaa tgcccctgca ttcctgacat ggccgcacat gaagttgact atgacgctgt 1080
aaacgaggat ccctgccatc 1100

<210> 1872
<211> 3165

<212> DNA
 <213> Aspergillus nidulans
 <400> 1872

```
tccccttctc tgccaaatca catcatcctc ctgttcatcc catccttcac cccactctct 60
ttgtctcatt ccttgcaatg tctgttaaca tacaggatgg aagaactgta gaattgattg 120
gtaggacaag gaagatccca actttgtcag aatatggctc gctgacgctg cagagtcatg 180
cggataccca gacaacctgc gtatccggcc cctcctccgc taaaagcagc gtcacaccaa 240
aggaacagca agaagccaca agactcagag acaaagcact agaacaagtg agagggatca 300
gatttagctc tcatagccag agacacctac ctacacgact gaaaatggag gtcttatcat 360
tttggcattg ttcatcagtg caatacaaaa ataggcgccc cgagaccttg cgaatatata 420
ttcttactgc tatcaatcgt gctatcaggc tacgaaagga acacaactaa tttacagcaa 480
ctttgacggc acaagagcaa gctatggcta ctttataagc atatggattg cattcgaaat 540
taccagccca attggacgac accgactcac ctacgaggcc actggctgga gcaacacagc 600
ggaggaccac gtttttgcta gcagattatc tggaattggg gcccaagagc cacggaagct 660
ccatgccagt tccaaattaa gccttcttat cagcatctcc accgaatgtc acctacgagg 720
tagcagctta tttcgatgta acgaagcctg cttacagccg tgggctgctg ttccgggaac 780
tatgccagat cccgtggagt cataatgcag atatgagtaa cctacagacc tcgcgcctga 840
cgtttgagtg cgccgtcgct aacatcatgt ttgcatctga aatttctcag aagcatggag 900
taaattcacc aagtccattc ctgaatgcgg ctggcgggtg ttagacgact ctacagaggc 960
ggttcgacgt ctctcagccc agtttaaaga cgaaagcaag tggaatgacc agaaaccttg 1020
tcttgacatc catgccaacg gagctctagt catggaggcg tataccaaga gtgcataatt 1080
atacgaatgt acaccatggc ttctgatcat tctgctctac cctgtttcgt cggcgctcaa 1140
ctaaacagag ataattgtgg cgatggcttt ccttgttggt ctcaaacgac tccacgatat 1200
gacactagct tgcgatgatg gcaagttaat gttggtggct gctgaggctc tgaacgaggt 1260
tactggagct cataagggcg aggtggccat gaaatcaata atgaggatgt cttcgctaca 1320
ggaagtgcca ctacgccgag acagcgaaaa cgtatcctac taacagttcg agtaaaacc 1380
caagccagga catagccagg cattggatag cataggtttt aaacggtgct ggtgtatcac 1440
tacgtgtttt ggggcaatat gtacagtttc aggcgtgatg tcgagacact gacagaaggg 1500
```

acttactttt cacttaacga ccaggataaa atgcagttct ttcataattct tctcaattat 1560
 tgaattcaag cacgatataa aatggctgaa acttgtaatt acttaagccc taatcgta 1620
 gtatactttc aggcctgcag ccagctggca ctgttcagtgc gcacgacttt aaaaattctt 1680
 acataagcgg accatgcaaa cgcgtcaaac tgctttgttc cactcggctt tctgtgctt 1740
 cgatacagac ctcaaaccac gttactgtca ttcattgttc ttttttacgt tctgtgctga 1800
 gcatgggatg cactaaatag acatatattg cttgtcaata tctgatcttt gccacgaact 1860
 cgtaaccgat gccttgaaca aataccgctt gttcgaccgc gtcttgaagc tttccttggg 1920
 cgacagtcta tgcaaatatt gggtactttc actcccttgc tgggcgcccc atcgtcggcc 1980
 tcaaaggcat ctcatccat tctagagctg gacggagggg tcaaaatcct cgtaaactgt 2040
 ggttgggatg acacatttga cccgctcgat ttggtggaat tggagaagta caaattgccc 2100
 ttgcgatatc tatcaagcgc attgccttta accacggatg ctaacgcatg atactgggta 2160
 gacacgtctc tactctctcg ctgatccttc tgaccacgc aacgccttcg catatcggcg 2220
 cctatgtcca ttgttgcaag acattccctc tttttacca aattcccgtg tatgagaca 2280
 gtctgttat cgcgtgggc cgcacccttc tgcaggatgt gtacgagtcg gcgcgctag 2340
 ccgcgacctt tctcccaaa gcttctatat ccgagcctgg tgctcgaca tctgctgct 2400
 ccgcgcgcatc tgtgaccgag gccgatggga gtgcggacgc aaccagcgct gggcggatat 2460
 tgcttcaacc tccaacgaca gaggagattg ccagatactt tgccctgatt cagecactga 2520
 aatactctca gccgatcaa ccgattccgt caccgttttc tctccgctc aacggctctta 2580
 cacttactgc ctataatgcc ggtcacaccg tgggtggaac aatatggcat atccagcatg 2640
 gcatggaatc tattgtttac gctgtcgatt ggaaccaagc tcgagaaagc gtcgttgag 2700
 gtgctgctg gttcggagga tctggtgcga gtgggacgga agtcattgag caactgcgaa 2760
 gcctacagca ttgatctgta gtactcgcg aggtgacaaa ttcgctcttc ctggcggacg 2820
 gaagaagcgc gatgagatac tattagatat gattcggagc actttgttca aaggtggcac 2880
 cgtgctgatt ccaacggaca caagtgcgcg ggtgcttgag ctggcatatg cgttagagca 2940
 tgcttggcgc gacgtgcta gggacacca agatgatgtt ctgaaacggg gtggactata 3000
 cttagctggg agaaaggta acacaactat gaggtctgcg agaagtatgt tggaatggat 3060
 ggatgagagt attgtgcgcg aatttgaggc agctgaagct gcagatactg ctggccagaa 3120

caatgacggc cagcggtccg accaacgcca gggcaagaca gataa 3165

<210> 1873
 <211> 4248
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1873

tgaggctctg cttgacgtag ggtgttccaa agtggagat gttcagatat caacgccct 60
 gtcgcgggca gagatgtgaa gggcatgagg tgttgattct actgcaggaa gctgataatt 120
 gtgcttgacac ggattgatct gccacagccc aagcggattt gatgtacatc agcctagagc 180
 caggagaaga acgcagttaa aactactgca gaccaactag gtcgaattca atgagccgtg 240
 aatctatgta cttgtacagt gtcgtacgca tctatgcaac aaaatttaga tcggactatc 300
 tcccccaacc gctaaagaaa ccgcctgatg tcgttggggc ctcggtgtag gtctttgaaa 360
 gacccggatt cggcgtact ccaagcagcg aattccggtt ttctgttggt gaggatcgtg 420
 tcaaaccacg cccctgtcct cccatcattt tccgtaatga gtccagcttc gccttaacct 480
 cttccagttc ctgttttagcg acggcctctg ctgtctttgc atttactagc tctaagagca 540
 gcgcctcgtc acctggcggg ttgttggttt ctgtggatag aacgttttgc aggccaaggc 600
 tgctactccg tttattgaaa gtggcgggtt gaatgctctt ttgtgaagcg gaccgagcaa 660
 gtttgagttc gcggagtcca cccgagcaga agctttcacc gtgatcgctt gtcggcgagc 720
 cgtatgactc tgggggggta tcaggcgttt tggttttgat ggagcggagc tcacgtacgg 780
 tgcgctctag ccgctgacga tcgcgatacc cgtcttggtt acggccgcgt gcttcgcgga 840
 gttgttcgcg gagcgaggcc gcttcctggt cctgttcacg gatgcgccgg gtgaggtcga 900
 gacatcggcc agcttcaacg gagtacatgt tcttccatcg ctcgaggtcg tcacgcagtt 960
 gatgcttggt ttggtcgata gatgtccgcc tggttgaatc taccgttgcg agcttttctt 1020
 ctgctttgct gaggagtctt gatggcgagc cgtctgcgtt gttttctttg ataaattcga 1080
 gcattgatcg ggcgagtgtt tggctctcct cgcgctctc gcgctcacgt tgtagttcgc 1140
 gcgaaaggtc tgcttggtga cgttgtaggt cgtgagtgcc catcaagagg tcttcaatct 1200
 ggctgtgaag atcgcgggtc ttgttatgag acatagcgga ttttgctcgt ggtttctgag 1260
 cctcaactga tagttcagtt ggcgctgtgc tggcgtccga cgtcgactcg accgagttaa 1320

gcgtggaggc catactttgc ttggagggtg accgccgaag attgttattg gggttgagat 1380
 tgagtgattt gacggacgtg tgagggccag agccggccca gaaccggcca aggaatcgag 1440
 aagctgcggc ctgcatctgg ggaaaggaga taccagtagg aacccttgg gactggttgt 1500
 aactggcctc cagtgcctga aggctttctt tggtgacaag agtggttaga gagacaaagt 1560
 cgttaacgaa atcgtcggcg tcaaaagcgt agctatactg gtcagtgaga gtcgtgtatt 1620
 ttaggacaat acttacgtat ccagagact tctagaaagc agcagttgca tgacatcttc 1680
 aaactctgaa cagcccatga tcttttttct gttgcgttc attagcgaaa gcgcgacgcg 1740
 catcaaagtc tcgcaggcgc cttccaagaa gatgacatcg tagatccgaa ggagcatcgg 1800
 catagggcag gagacagcaa agaacgacag gaaccactgc gagacataga caggctcaac 1860
 acccagtgtc tctaggtgtt cgaagagggc gggtcgaagg cgggagagga gattctggaa 1920
 ttggtacacg cggaggtgca gacctgacag gtcagggaga tagcaggtcc gcaaatcata 1980
 atggtccata agcctgcaac tattagcgtg attcgttcga cgatgcaggt caacttaccg 2040
 cacaagcacg cagaatgctt ctgcatccgt catgtgcatc aacaatggcc caaccacaaa 2100
 gcccaagcct tggcagtaac ctatcttcgt gtcataaaga ctgaagcatt tgagcacacg 2160
 gcccaagcatt cgttgtcctt cgccgtttgg atcgcgaaac atctcaacat tggggaagct 2220
 acggccaata tccttcccaa tcaatccctc atacgggcta gtctcgccgc atagcttctg 2280
 gtactcgggt aatagcgaag gatcccttgc gcccgacaag ctcgccaga cgacaccacg 2340
 caaaggaggg ggaactccgc ctctaactt attcgacgtc aacgtcggaa gtcgctgcac 2400
 tgtttgcgga tagtctgcaa cgagcgcggc ccagaattca agttccgtca tgggcggagg 2460
 tgggagttgt gaaatccgga gagaggatcg agggctctcg tcgatcaagc gcttgatctg 2520
 atgcagggat tgcgatcgag acggacgctg ttgtgcctgc tgtgcggcaa ccttggaag 2580
 accagatttc gggttcgtaa ccagggcatt gttctcttgc tccaggcgag ctaacaacag 2640
 ggcagttgtc tatgaatgtc aattctatcc ctcccatgc cattttctcc agacatacct 2700
 catcagatgc ctccatccga ggctcctgct cctctgtttt ctccagctct tcccagcca 2760
 ctgcatcacc ttcgagccca tccggccggt cagtttcttc gctgatacgc gcccgagcga 2820
 gttccgatcc taaatccggt ttgcagagg tgggtgtggt ttttgggctg atctcatcgt 2880
 cggaatgtgt cgtagcgtgc acaggggtct gaggaatctc aagggtcgc cagtcgggtt 2940

gagtgtcttc tgaattcgac gacagaggca cggttaccat cgaatctgtt tggtagccg 3000
 tacggaccga ttctgaacta gggcgtgacg gggctctgctc ggaacgttcc attgtcgcta 3060
 gtcttctctc aaccaagggt tcaatgagcc tcgtcgatca aatcgagggg tgaaacacga 3120
 gggttggagg ggtcaaattc ggaagtcgcg atcaggtcga gaagctgccg gtgggaattg 3180
 gacgacaaac agcggcatcg ctctgtggcg tagaggcgag tggtagactca attcgaagtt 3240
 gaagaaggag aaacgaggaa gagacggcgc gagttgaaag cagtatggta aggttagtta 3300
 acttaagtgg tggtagtct ggtgctctaa gtgggcttca cactcagggg gcgttgtcct 3360
 gattgggact ccaccaggtc tcgccctggc gatcgtcaaa ttattatcag agcgacaata 3420
 ctacgtgtg ctgagactca gtctattatt ctatgtctaa ggagagtata ttaagggatg 3480
 ttccgtagtg ttgcttcta tttggtgttg gccatgtaga agagggcaga atcgtgagct 3540
 ccaatagact ctctgatct ccgcacagaa cacaacagta caaccatgga acctgaaact 3600
 ggggtgtctgg gacactggag ccctcagga accgccttcg aactcacgat acacgaggaa 3660
 accatgtctt cttgaaagt catatgtcat gacgtaaaaa ggatactgac agacctcgct 3720
 ccaggggcga ggtaccgagt ctacttagga gaagggttct agcggcctcc aatccgccct 3780
 tcgaaatcag cggtaatgta atataacgtc gcatgatcgt ttgagcctta atggaggggt 3840
 cacagcacgt ctaatgagt gacatgtaat ttatcgggac tcgttgattg gctctcatga 3900
 aatagattac actccgacat accgctgcat accgacattt tgaaacaaaag cccccccaga 3960
 tgtttaacta atcaaaactg gcagcagtag taggtcacga taattttcta tcaagtgggtg 4020
 tactcagagt agttatgcag tataacgcta gacactagca tcttccgcag ctgcggaaaa 4080
 gtagtaccat atacatgtta ccgtatatat agggcagatt gtagtcagtc tgtatttgaa 4140
 ggagctggga gtaactaata aatacttcaa gcacaattat atatatttcc cacaacaact 4200
 ccgccatta ctgataggaa ctaccgata tttgaactta cttgagag 4248

<210> 1874
 <211> 2260
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1874

aactgtcata gaaattgtat caccgggtgtg aggagacgtg tcaacaacga gagcgttgta 60

acaactccct ctacaccag cctgagacat cctcgccatc cacaacgccc tctccaagat 120
 cagcccttac ttctccattg ccgctgggtt cggtaatgtg cacgggtgtct acaagcccgg 180
 caacgtccgc ctccaccctg aactcctcag caagcaccag gcctacgtta aggagcagac 240
 tggctccaag aaggacaagc ccgtcttctt cgtcttccac ggcggttctg gctcttccaa 300
 ggaggagtac aaggaggcta tcagctacgg tgtcgtcaag gtcaacctcg aactgacat 360
 gcagtacgcc tacctcagtg gtgtccgtga ctacgtcctc aacaagaagg actaccttat 420
 gtcaactgtt ggcaaccctg acggcgagga caagcccaac aagaagttct ttgacccccg 480
 cgtgtggatt cgtgaggggt agaagaccat gagcaagcgt gtccagggtg ctcttgagga 540
 cttcaacact gctggcaagc tctaaagcag ttatatgact ttgcaaaata ttttgacat 600
 tcatgattat acagatatga ggcgacgaga taccaatgaa agtgtatagt cttaaaaagc 660
 aaaaggttgt tagtagattt ggagatggcg ttggcatggt gtaggtatag tttaaaacga 720
 tatcaaaatt atcgttcaaa gcgaatgaac agtaggccta ataagttgat gagcgaatat 780
 gtgttttgtg ttacaaccac tacgcaaggc gataagaggt agattgttga tagctattcc 840
 agctagacct ataggagcat agcactaggg agcagcatct ataatagaac ttatggctac 900
 aatgctgagt gtaatcaaat gttcattttg ttcaatgaca agcaaatgg tagaaaaatg 960
 gaagatataa agatgtcaat attattgctt catcgctgc tcaattctgc ccataatcct 1020
 tccttctcgt tcagaaatta agacggatca tccaagtgc cgcatgacca tccttgctgg 1080
 gtttactcaa gcgggggttg tgcattggaa tgctacggta tcaattctc acccggccat 1140
 cacaattatt cccatcatca ctatcatatc tcccctgtgg ccattgctgt ctcacattgt 1200
 gcaacagcag accagctttg aatacaacga gatggcctct gttacggagc accctccaac 1260
 gctggagcaa attgaagcag atcaagacga atatgatcgc ctattcacag caaaagtgga 1320
 ctctttcgat gttccaacga caactcggcg ggaactgtgg tcctattacc ttattataa 1380
 tggtagacat ggacggtgtt aatggtgccc ttacagtact gctactgatc gactctctaa 1440
 catctaggag acaacggagt aggcctctt tcgtataccc aagcattgta aggccttgct 1500
 ccattcttgt acaagcattc ttgaccgtct aggtttcaat ggtcccttaa cggcgccggc 1560
 tggcaaccag ggaccacgcc ccggcaacct tgcaccgatt cgtctccttg cgtagtcctt 1620
 tgggcccggag ggacacgaac cgtctcctcg attgtgttga tagcaaatgg cctcagcttc 1680

accttcatga caataatctt tgtctggctc gggagtgccg cagactacgg ctctttcggg 1740
 cgctggttgc tctctgctct tacagtcgtt tgctgggctt tgcagtatgg gacgcttgct 1800
 atcagagagc cgactcagtg gcccgccgct atggggctgt atatcgtgac gtatgttgcg 1860
 tatggcgcaa cgctggtggt ttatgccgca atgttcccga agcttgcgag gtatatgccg 1920
 catgtcagga aggcgagggg ggaggatttg agagagggga ggatcgatca aagggtattat 1980
 gatgctgttg agtccttgga gaggaatcat atttcgtgag cgtgggttctg gttcttgata 2040
 ttgatgatac tgatgagaaa atgcaggaat atatccacag cacatagtaa tattggctat 2100
 ttggccgtgt tgcttctcaa cctaagtgtt ctattgccta tgcagggcaa taactatgcg 2160
 aataatttag ccatctgtct gacgaactcg tgtgcgcaat cttcctgctt ggggtacttaa 2220
 cctgcaacta atatagcgtc agattgggtt gtcttggggg 2260

<210> 1875
 <211> 1721
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1875

cataacctat tattctgtac aatacatctc agagaggata gcactaaaaa ccataaggca 60
 aagccatttt ccttgctctg ttcagtgtcc agttgtattg aggcgggaaa ctagcgcttt 120
 acttcttcac ccggccatca cgattattcc catcatcact atcatcatct ccccggtggc 180
 cattgctgtc tcacattgtg caacagcaga ccagcttttg gatacaacga gatgaccttt 240
 gttaccgagg acccctcaac gctggagctt gattgaatca ttctagcgca ggatttcacc 300
 cagatggtca gtttatgtaa taaaatctta cattgtagca aatgaatata cagatgaaga 360
 cagcaaatcc tgattacggc gataatttcc tttagcgtag tccgctgtgc atgactgctc 420
 aatcagaaag ggaggcggag tctctaagca aagtatgtag gtaggccagg tggaaagctc 480
 cctaagaaac aaatccaacc ggtttcctta acgatcccggt taacaatatg ttaaaacttaa 540
 cagagagatt cctctcatca taattgcata acgtagacat gatcagaaaa gtgataagtc 600
 caggaacaca ggcacggagc catcttgaca ccttggtagc caaactctta gctatcttag 660
 atgcactaaa catatctgta aagcagtatg actgcacagc gggaaaccct tgtattcctt 720
 caagctgttg ataatgctgt ggtccgtggg agattcgtaa tccagtggtt ctaggcgctc 780

tcgacaactg ttattttgaa tggtagctct ttatgtatat aaattatatt ttatctattg 840
 ataacctgc gcagtgtttt aaaaaagac ttctgttcta tttgcaggaa gttataagct 900
 aaggatctct attcaccaac ccagctcca ataacatatt gcctaacaac aaaaagtagc 960
 aatcggcata gacaaggcca tggctctgcc agcgccgca cgcgaaactcg taattgcaaa 1020
 cagtcgctgc gtcgaggatc gtttcgggga atttgagtgc agacctcgat ctatacccat 1080
 tcataccagt ctcaggccct gagagaccct cctttgccga aatggtcaga cgccccggct 1140
 gtcggcagga tacgtagga ggcctggcgc cgactgagcg acattgaact ccctggtgac 1200
 gaggtcatga acttggacac tgtgccctcg agtatgcga gtgcaaagtc aagatactac 1260
 tccacgggct ctacgtccgg cctgtcctta ctgtctttca gtgccttgca caacagaact 1320
 agcccgcaac aagctaccat ccgcgggacg taccggggac aggactcatt accgggcatt 1380
 gaagcccagt ccggactggg tgggaggtag tgctcatgaa ttatcgcgag tcttagccgc 1440
 tgagaaccag ttttcgggtc aacctccatt ctgaaccaga aaccagttt gccggactca 1500
 aaattcgctt taccctgtgc gaatttgccg gagccccggg taatagcccc gtgggccttg 1560
 tgcggtgagg gccctccca tgtatgcacc ccagagggcc ctttgccctcc aaaatactg 1620
 tccttttcta gacctgttcc ttatcctcct ctctctctta ttacacttat ccctctcccc 1680
 cttctctact tctcttact tcttactttt cctattcccc c 1721

<210> 1876
 <211> 3049
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1876

catttcaagg ttacaagact gcggaagttc tggcaggcgt agacggcgtc ttcgccgagc 60
 tctctctcaa tacgaaggat ctgggttcagt ttggctaaac gctccgaccg ggcaggagca 120
 ccagtcttga tctgtccgga gcggagaccg acagagatgt cggcaatggg gacatcctca 180
 gtctcaccgg aacggtgaga gaccatgaca cccagcccat cggcgtagga gtccttggcg 240
 gcctgaatag actcagtcag ggtaccaatc tggttgacct tgagaaggag agcgttgcag 300
 gacttgagct caatggcctt cttgatacgg agaggggttg tgacagtcag gtcactacta 360
 ttaactagtt agatcagtta ctaggaaaaa gcggattgca atacataccc gacaatctgg 420

aagtcagagg tctttagaaa gtagctccag gcctcccagt cgtcctcagc gaaaggggtcc 480
 tcaataactga caatggggta cttggcagca agggacttgt agaggtcggc aagctgttcg 540
 tatgtgagcc acttggaggg gtcgctgtcg gggttcttga agtcgaggtc gtatttcttc 600
 tcctcgggct tgtagaactc gctggaggca acgtccatgg caatgtgaat cttgccggtg 660
 tagccggcct gctcaatggc ttcgggtgat aggtcgagag cttcttcagc ggtctggata 720
 tcgggagcaa caccgccctc gtcaccgacg ttgccagcag actggccgta cttcttctta 780
 gcaagagcct tgagcttggt gtaaactca gcacctggc ggagaccctc ggagaaagag 840
 gaagcagtgc tttccatatg tcagtatact tgaacgaatg caaacggccg gcaagaaact 900
 cactcaggaa caatcatgaa ctctggaaa gccaggcgac caccggcgtg ggaaccaccg 960
 ttgaggacgt tctggaaggg gacggggagg acgtagggct tctttgttcc agccaagtcg 1020
 gagatgtgag cgtaaagagg gacacccttc tcagcggcac cagccttggc gatagccaga 1080
 ctgacaccga ggatggcgtt ggcaccaagg ttgctcttgt tgggagttcc gtcaagcttg 1140
 ttgaggaact cgtcaatctt ggactgctcc ttgacgtcga ggttctcctt aatgacggcg 1200
 gggccaatgg tctcattaac gttcttgacg gcagttagaa cacctatttg agaaccattg 1260
 ttagagggtc ccatctcgta tcaaacttgt gggagtgggt gcaaacgtac cctttccgag 1320
 ccacttgga c ttgtcgccat caccggagctc gtgagcctcg tgctgacctg caattgaagt 1380
 taggaacgtt tgtttttcat caatcgacgc atgctcaata ggttacacac cggtagaagc 1440
 tccagaagga acaatagcac ggtgaagacc ggtctcgggtg acaacgtcca cctcaacggt 1500
 ggggttacca cgagagtcgt agactgagcg ggcgtggatc ttggagatag gcattttgat 1560
 gaactagaag gatagagtca gaaaggagaa aaaggggaaa attttggagg acggagaagt 1620
 taacaaatat aacagaaagg ggaggcgaag agttgctggg agtgatttag caggcgggga 1680
 tgctgttcac cgatggccca aaaagaatga tgccagcagg tgagcgatgg agtcatccgg 1740
 tcaatcgctg atggatcgag accgcctgga ctcatcctta ggaagaccgc aatgtgaagg 1800
 aggcataccg acaggtcaat gctggtgtag ctgtgatgat gatggtatgt tgctgatga 1860
 tggggagagg tcaagcttaa gctggtggga tgggtggggt gaagaagagt atacctagga 1920
 ggcggatgta aagagacggc acttaccaaa ctttggacgg acggggagag tagtaaaaca 1980
 acaacagcaa tttggactat agggagcaag aattcgatgg aaagcagctg gttcttgat 2040

tcctacgcaa gttgtctggc tccgagtcct tccaaggtga tgggtggggca gccactgcct 2100
 gtttgttggc tcaggaggct tactgacgct ctacagcgag atctcccgtc caccctcggc 2160
 gcaaggcggg tgacaggatg ctgcgcagaa ccaatccacc ttgtttgagg taatcactca 2220
 gagtagacgc cggcgtgatc gtgactttat tctatagtcc gctgatgcct ctcaaaagcg 2280
 ctacgatgcc gtaggatcct cgtttcgtaa cgcagctggc taaaagacgt gctgtgctgt 2340
 aacctggtag ttcatatgcg aatcgaggtc aatctacaaa gaatgctatc tagccatgca 2400
 agagcatgcc atagtatcac gcagcccgca attcggcaac ttcggttcgt aatgacggcg 2460
 aaatagagtc ggggtcaaat ttgatacctt aatgcctgac agctaccgga taatagttac 2520
 tacgtaacgc tcggccttga catggcctat attggcctga atttaatggc atgaatatag 2580
 tcatgtgacc gagtccgtgg tggtagctca ggcgagctct caagctaagt ccagataccc 2640
 ttttatcagc atctccgtca tcgctccatt cctctcgac cggaagcag tctcttataa 2700
 cgaataaact gtggtcactt gaaatcagtt tgatccagca tcgctgttaa ccacgattc 2760
 acgatgaacg gtgctgttga tcccgaagg gagcaggcac tggaggagta caagcggagc 2820
 ctactggatc tccgggaatg ggaggctaag ctcaaagcgc ttcgtatggg aataaaggac 2880
 ttgcaaagag agtttgatat ttcagaagaa aacatcaaag ctctgcaaag tgttggtcag 2940
 attattggaa aggtgctgaa gcagctcgat gaggagcgat gtacgttctt ctgcgacgaa 3000
 agattctttt attatattcc acacgagagc agctaattct agaagtcac 3049

<210> 1877
 <211> 1104
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1877

agagtctggt taaaggatag ggggcggact tcggctggtc ccaggggggc gacctctggc 60
 gggacattga ggagtttgta cgcaatgctc agaaggggaa tggacaggcc atgaacgaag 120
 atcgagaata acacgagcca atatattgct agggatatagg ttagattggt ttgagagtaa 180
 gtgattccaa ctcaattggt ttgagggcgc ccattaagcg agcctccatg gcactaccct 240
 cgcctaccgg agggaataga tgggaggtgt gttcggcgta gaagacagca ccaattcctg 300
 gcaccgcgtt aataccagtt ccgtacagac caagtattga cttacctatc ggtccaaagt 360

agcccataaa caaagcctcc ttccagttct tgcagacctt gggcataaac ctgtacaaaag 420
 cgagcgtgct gggaatgctg cgaaagagga ggacgatgaa gccagaaga atcagccggg 480
 gatatgtgat tcctgtggtg tctggctggg ggaagtcac ccatggaatg acggtcccaa 540
 tatacatgaa tccaccaaag ttgaggagaa cgtcgatata tgaattgact tcgtcatggc 600
 gggcttcggg ttctgccaga tagccaccgt cccaattcag cgcaccacca gcaaaataac 660
 aggcgaggag atcgttcgtt ccgacacaa caccagttcc aaggaggaat agctggtaat 720
 gggttaggta tgaacacggg ttgcatgaaa aggacttact cctaacgcag ccgggaacag 780
 cactagctc tcgccgtcta tccactttct gaaacggggt agcatcctca aataatggta 840
 tcaggatatag gcccgcttta ctttcggagg gtataccgca gtaggcgcat actggcatag 900
 ccaggggtgg gcccataaac caccgcaagg atgatgtagt aggccaggt ctcgacaaac 960
 cacatctcca tcgctttcgc aagcccgcca tgcatatggc ctacatcttc cgagcgcgcg 1020
 acatgagcat gggccgtgtg gtctgaacc ggatttcctt gggtatacgc agcagatagg 1080
 tcgctagcac agaaaggga acca 1104

<210> 1878
 <211> 3122
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1878

tttagctttc gttgtagctt ctccatcatt tatactatct ataagcacct ggttcacgat 60
 gggatgaagac aaagaaacaa atatcctcgc cggcctcgga aacaccattt cccaagtaga 120
 aaacgttggt ggggcacgtg tacgaccttt gccaacggca acgggtgatg gaacctacgt 180
 tgccgaatcc actcagacgg gcttagccaa agatctgagc catgtcgacc tcaaggatgt 240
 ccgcacactc gccgaagtcg tcaagagtgc ggctacggga gagccggttg atgacaagca 300
 gtatatcatg gaaagagtga ttcaggtcag ctgagattcc aacaacaagt atgctcaggc 360
 tctgaggcta atcaacatct agttagctgc tggcttacca tcgacatctc gcaacgctgc 420
 agagctaacc aagtcatttt tgaacatgct gtggaatgac ttggaacatc caccagtttc 480
 gtaaggaacc aggagtctgt aggtacctc ggctgtctga caaatatata gttatctagg 540
 agctgattct atgcaccgca aagccgacgg ctcggtgaat gtagattatc ccagttccag 600

tctttctacct actgtgctga cttttc gatg atagaatcgt ttctggcctc aacttggcgc 660
tgctggtagc gcgtacgcaa gatctgttcg gcccaagacg atgcagtctc catccctgcc 720
cgatcctgag actattttctg attgcctgct ccgccggaaa gactacaggg agcatcctaa 780
taagatatca agcgttctat tctacctcgc ttcaatcatt attcatgggt agccagtcca 840
gtgattgaag gtaatgatgg gtttgctaata tatcttcgaa gacctattcc agacagaccc 900
taaagataat tccgtgtcca agacatcgtc atatttggac ctctcacctt tgtatggcaa 960
taatcaagac gagcagaacc ttgttcgtac gttcaaggat ggaaagctta agccagattg 1020
tttcgctacc aagcgagtgt tgggctttcc tcccgccgtc ggcgttctac tgatcatgtt 1080
caaccgcttc cacaactatg tggttgatca attggcggcg atcaacgaat gcggccgatt 1140
caccaaacct gacgagtcca acgttgatga gtatgctaaa tacgataaca atctcttcca 1200
aaccgggcga ctgggtgactt gtgggttgta cgcaaataat atcctaaaag attatgtccg 1260
aacgattttg aatataaacc ggacagatag cacctggagt ttggacccca gaatggaaat 1320
gaaggatggt ttattaggtg aagcagcagc aatggcaacc gggaaccagg tgtcagccga 1380
atttaatgtc gtgtaccggt ggcacgcttg catttccaag cgcgatgaaa aatggacaga 1440
ggattttcac cgtgaaatca tgccgggagt ggatccaagc aactatcga tgcaagattt 1500
tgtcgcgggt cttggacggt ggcaggcagg actcccacaa gagccacttg agcgccatt 1560
ctctggctta cagcgtaacg cgacgggtgc attcaacgac gatgacctgg ttaatctgtt 1620
tgagaagagt gttgaagact gcgcagggtgc atttggtgcg tctcacgttc cagccatctt 1680
caagagcggt gaagctctcg gtataatgca ggctcggaga tggaacttgg gaacgctcaa 1740
tgagttccgc caatatttca atctggctcc tcataagacc ttgaggata tcaactccga 1800
tccgtacatt gcggatcagc tcaagcgact gtatgatcat ccagatcttg tggagattta 1860
ccctggtggt gttgtggaag aagccaaaga ctccatggtc cctggaagcg gcctttgcac 1920
gaacttcaat atatccagg caatcctttc ggatgcgggtg gcattgggtc gcggtgatag 1980
attttacact gtcgactaca ctccgaagca ccttacgaat tgggcctaca acgagattca 2040
gcctaacaac gccgtcgatc aaggtcaggt attctacaag ctggttcttc gcgcattccc 2100
aaaccatttt gatggaaatt ctatctatgc tcatttcccc cttgtcgttc cctcggaaaa 2160
tgagaaaata ttgaagagcc ttgggggtgc cgagaagtat agctgggaaa agcccagtcg 2220

tatctctcat ccgattttca tcagctctca tgccgcgtgc atgtccatcc tcgaaaatca 2280
 agaaacgttc aagggtgactt ggggtaggaa gattgagttc cttatgcaac gcgataagca 2340
 ccaatacggg aaggacttca tgctgtctgg agaccggcca cccaacgctg catcgcgcaa 2400
 gatgatgggt tccgccttgt atcgcgatga atgggaggct gaggtcaaaa acttctacga 2460
 gcaaacaact ctaaaactct tgcataagaa ctctacaaa cttgcgggcg ttaaccaagt 2520
 cgatatcggt cgtgatgtgg ccaatctcgc ccaagtccac ttctgctcta gcgtcttctc 2580
 attgccactg aaaacagact ctaatcctag gggatatctc gcagagtcgg aactgtacaa 2640
 gataatgggt gcagttttca ctgccatctt ctacgacgca gatattggga aatcgttcga 2700
 gctaaaccag gccgcccgtc ctgtaacgca gcagctgggc cagctaacta tggccaacgt 2760
 cgagatcata gccaaaaccg gcttgatcgc taacctcgtg aaccgccttc accggcgcgga 2820
 cgtgcttagc gaatatggca tccatatgat ccagcgtcta ctggatagtg gtctcccagc 2880
 gacagagatt gtatggactc atatccttcc tacggccggt ggaatggtgg caaaccaagc 2940
 acaactgttt tcgcaatgtc tggactatta tctctcggaa gagggctctg ggcattctcc 3000
 tgagatcaac cgactggcca aggaaaatac cccggaagct gatgagctac ttacacgcta 3060
 gtacgtaacc tctttgttgt ctttcccgaa cgcgcacata cttaccggag cagtttcatg 3120
 ga 3122

<210> 1879
 <211> 3275
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1879

tcaggaaaac catgatgac gagtctctcg aaagggtgtc ggcaataatt tggcctaata 60
 ataccaatat cacacagatc tgcaggagta cctcggatct tatgtgtccg atgacgacgg 120
 aacccttcga tatcaggagg gtatcctggg agaggcgcta cggaacggct actggattgt 180
 ccttgatgaa ctcaacttgg caccctctga cgttctggag gcactcaatc gacttctcga 240
 cgataaccgc gaactgttta tccccgaaac acaagaagtg gtccatccac acccgaattt 300
 catgctgttc gcaactcaga accccgcggg actctacgga ggcagaaaag tactttcccg 360
 cgcgttccgg aatcgtttcc ttgaattaca cttcgacgat ataccagaga gcgaactgga 420

gtatatattctc aaagaacgat cacaaatagc gccatcattc tgtaccagga tagtcgctgt 480
 gtatcgaaaa ctttctctac tgcgccaggc aaatcgggta ttcgagcaga agaataagctt 540
 cgccactctg cgtgatcttt ttcgatgggc cctccggcaa gcggatgaca aagagcagct 600
 ggctataaat ggtttcatgc tacttgacga gagagtggag aaccctcagg agagggctgc 660
 tgtgaaaggc gttattgaag aggtcatgaa ggtcaagatc gacgaagaag tcctttacag 720
 cacttccgag ttagataagc gtgcaccatt gctaaggcaa ctgaccctg gaatcgtttg 780
 gaccggggct atgaggagac ttttcatcct ggtttctaca gctcttcaga ataacgagcc 840
 cattctcctt gtgggtgaaa caggctgcgg aaagactcag ctgtgtcaag cggttgacga 900
 tgcttaccag aaacaactgc acattattaa tgcgcatgta aatctggaaa caggcgatct 960
 tattggagct cagcggccag tacggaatag atcggtatc gaagacgcca tgctcaacga 1020
 ttgcggaata ctgttgcaag acgagtcgaa gccgttcgag gagctgaagc agattttcgg 1080
 cacactcagt gccgaacagc gactagagtg cgatccacag ctactaaaga agatcgaaaa 1140
 gaatcttgct cgattaaatg cactttttga atggactgat ggaagtttga ttaccgccat 1200
 gaagacaggc cagttcttcc tcctggacga aatatctctc gccgatgact cggtgctgga 1260
 acggcttaat agtgtgctag agcctcatag atcgatactt ttggctgaaa agggcccat 1320
 tgactctatg gttgtcgtg acagcggctt ccagtttctt tcaaccatga atcccggagg 1380
 cgactacgga aagagagaac tctctgctgc cctccggaac cggatgacag agatttgggc 1440
 tccgcaattg tctgaagatg aggacattct tccattctt caaatgaaac tagagacgca 1500
 attggagcaa atccctcggg cgatgttaca atttgcaaaa tgggtcaaac gcacgtttca 1560
 aggctcctca accaattcac ttccattcg cgatctttta gcttgggttg attttgtaa 1620
 taaatgccag ggctcggatc ccttggtcgc tattattcaa ggtgctgcaa tggattcat 1680
 agacacactg ggtgcaaacc cggtgcatg gctcgcaacc acgttgata accttgaagg 1740
 aaatcgcaa ctgtgtctgg acaaacttga ggaactattc aacgtggatg cgtcgaatat 1800
 ctatatgcaa aaatccgata ttggtgttca agaccaggca ttgcgtattg ggccctttta 1860
 cctcacaatt cagggtgatg ctcaacctga cccgatttc atcatggatg cgctacaac 1920
 tattgccaac tcagtacgca ttgccgtgg gctgcaatta gcgaaaccaa ttcttcttga 1980
 aggtagccct ggcgtgggta aaactacgct agtgactgct cttgctcgag ccctcgggaa 2040

accgcttacc cggattaacc tgtctgagca aacggacctt accgatctat ttggatctga 2100
 tgccctgtg gaaggtggcg acgtaggta gtttgcggtg cgggacgccc ccttcctaca 2160
 agctatgcag cgtggcgatt gggactcct agatgagatg aacttggcct ctgagtctgt 2220
 gcttgaaggt ctcaatgctt gtcttgacca cgcgcagatg gtctatattg ccgaacttga 2280
 ccaaactttc aaacgtcacc caaatttcgt ccttttcgcg gcacaaaatc cgcacacca 2340
 aggaggcgt cgaaaagggg tgctgcttc tttcgtcaac cgatttactg tgggtgatgc 2400
 tgacagtctc accgacactg acctgaaacg catctgtgcc agactgtatc ctggcagtcc 2460
 tattacgcag accgagcggc tagttgactt tgtctccatc ttgaacgttg ctatagtcca 2520
 agaaaggaga ctgggagttc tgggaggtcc ctgggaggtc aatctacgtg acattcagag 2580
 atggcttcaa ttggctgacg gcgggacttt gcaatacac acgaagaact tcctcgatat 2640
 aatcatctcc cagcgattta gatgtcagga agatcgagag cgggtccgcc acctatacga 2700
 acgtgtcttt gatggtgtct ccacggcagc caaaagttat tatcataaca tgacaacaga 2760
 atgcatgcag gttggccttg gagtgatgcg aagggatatg ttgctgcaag aaactcccaa 2820
 tccgcacttc aaggtaactg cgagggatct gtctatcctc gaatctctca tgctttgcat 2880
 tgaacagtca tggcctagca ttctgggtgg agcttcagga tgcggtaaaa caacattgat 2940
 aagaaagctt gctgccatta accgagccaa cttggttgaa ctagctttga gcgcggatac 3000
 cgatacaatg gacctcgttg gaggcctcga acagatcgac cacaacagag agacgtcggc 3060
 tcttttagag gatattttgc tgttcgtgag acgacatata ctctccagct gcccgctcca 3120
 aacctctcaa gaagagacgt atactttgat tgaactgtat gaacggctac agagccctga 3180
 cttgtcgctg gagctagtgt gcacgttatt agaaactgct cgccagcgtt acgaggacca 3240
 agcattagag cgactactcg atcgatcgcc aacct 3275

<210> 1880
 <211> 3190
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1880

atgctcgct gatgccctc ggatcgcttct tctggggcgc tcgtttgcgc aaatgtggga 60
 acgatgcgc caccaatcct tgaccagaac atcctttctc tcaagcgaac tgtttcctcc 120

cacgcctctt gcaactcgtc aggttcctcg gcgtggatat gaccgtcaag gatgagacgg 180
aggtagcccg caaactcaca gcacgagcgt accttttcta aacagagaac gcacaatggg 240
tatcgctgtg ctgtttcact gtcagatgtc cggaacgggt gagtgcgctc attatcggtg 300
ccactccgcc gttcgccaca gagagaacat gggaattcgt attttcgaac atttggtggt 360
accggtctta cgaccaggct tccttcacaa atactagata gcacgtttcg cctggtcagc 420
caggatatcc ctggggccgc atcgagtctc aacgtagggt cgatatcttc cacaagtgca 480
cgcttgtaga atcgtgcatc cttcaaaggg acgctagagt taggggggtg aggcgaagaa 540
acactcccac tcgggggaatg aggttgagat ttgacgggtg aggggggagcc cgagccgaac 600
cccgccaccac caaagccagc cagactcatg acgtttaagc ccgaatatga tccgctggtc 660
gccctactgg ggggtttcga actcttcgat atagtaaaca gtcacgaaa atcctcgtaa 720
gccaatatgt cggttcggca tacagttttg atgagatcag gaaaacttgt agcaggaccg 780
ggtgctatct cggcgagac aacatcgcca gggatatctg tagcttccat actcttccta 840
gtgaaggcgg gaggttgga gggaccagcc ggagaagggtg gtgctgtgga gattgctgtg 900
cgaccatcga gatcgctctt ggaaatgttc attacctgaa ggactgattt caattcggct 960
aattgttctt ggtgcgaagc gagaagcgac tctgtgtctt tgatctgaga acgtaactgt 1020
tcattcttct tctccacagc ctgcgctcg agcttggcag cagcaaccat ctgtggaatg 1080
atthagaaaa acagctttaa ggaaccatgg ccgagtatat gtcaccttg tttgcttcct 1140
caaagagagc cgcagtgagt gtttctagct cttgctcgat tcccttttc tcttctccg 1200
ccaataaacg ctgagccttt tcttctgcca aagaagcctt caattggtca acctcagctt 1260
tcttcaccag cgctccgtct tcaatgtctc gccagtattg ctcgttttcc gactctaacg 1320
cgcgggcctt ttcttgact tgctctaact cctggcgagt aacggccaaa gtgtcatcga 1380
gttttgtctg attgttaatc gcttgaacaa gttttagact aagtgttgca acttcgtcat 1440
taagggtccg gtgatgtgag gacgatagag tcgactctgt tgattcagaa ctgggcagaa 1500
gtcttgggtc cctcaaagtg ctgaagccgt cccaccttc acttgaggaa cgaacagtgg 1560
ccggaggggtc tgcggcaaca cggagaagat catttgtgga cttggccttc gtaacatgcc 1620
tatcaggcga agccgaccta ttcccgatg acagagaccg tttgtggctg gatgggcgcy 1680
gtaacatggt tgacggcgag aggaaacctt gatgcgaata ataagagtgg aaggcgatca 1740

gactacatgc gaattagtag agcttcatgg aagaatacga tcgacttagg gttgaagact 1800
cactcggcca tgggtggcgag aatgatctga tcgtgaatcg gcaagataag gtagtgcgtg 1860
accagatcga gacgtcacgt atgcgcaggt atttagtccg cccgtttgat gaaacgatcg 1920
agtcgacaaa ggagtgaggc tgtagattag gttgtatcag tatatcgagc tgaaggcgat 1980
tgcgatatccg cgcgtaactg gaggaggcgc aaattggatt cagataggac gcattgacgc 2040
gggacaagga atgaagtcag ggccgggaag gagcggatgc gcaggagagc gaaggtacac 2100
tcatggagat cccagggacg agattaattg aaggaaggaa tgcaaacgac gaaaggaaga 2160
ggagttggag atgtaacaga cccctcttcc acggcggcta gcaggagatg cctggtggtg 2220
gaggaaagcc cgcactcgca cttcgtactc ggagcttcgt caccctgtct ggtgcattac 2280
tagtggcggg tattttacct gatcatgtga cggggcctct aagagggttc tgccaacctc 2340
gtcatgggta gacgtgagaa atacggagta ctagctggta ctgtatttaa tttgtagtct 2400
gagtaatcct acgtcaccca atgattaccg agactaaatg accaacttgt actgtatgtt 2460
atgcgtatgc taatcatgca aaacatggtg aagcggcgat tctgctaagc cccagcctt 2520
agcttgaag ctcagcaacc gcgcaaggga tcaactggcct tccgggagtt tgccctcgat 2580
ggagaccgac tcagtcctta gccttgaaaa acgctcattt attgtccctt gttggtgctg 2640
gcttgaatct cttcaatgag gttagtataa ataggtcgtt gccgttgacg taagacactc 2700
acaggctgtt cgcataatat ccttcgacc atctagtcac acaagtcata cttgttgaat 2760
atcgtagag caaaatagga gcacagaaga cggggttttg gagtaccgat tactgcatca 2820
ggatatcttc atgcggggct tgactgcttc gagctcaaac caaccgttct ctgactacag 2880
aggcgggatt aagcagactc atacatcagc caatggaaac gtcactgtcc cttatcattg 2940
aagctttact gcagagtgga acatgcgttc gatggcgcaa tcccacctcg tattcccg 3000
atttccccgt acacggcata ctctgagtaa agacgatcag taaccatctc cctggaatct 3060
tggtatggccc cgccaatctt ttggccttgc agcctcaggc cgcaaattaa agtgggggtt 3120
tggggtttga tcgtccatcc aacacgcaa atcttcagga ccatattata cgatacttac 3180
cccgtgtcct 3190

<210> 1881
<211> 2983

<212> DNA
 <213> *Aspergillus nidulans*
 <400> 1881

```

ggaatgcacc tgacgggttc gccaagaata tgcgtcttc tgggtgggag ttttttgact   60
tcgtcaagag gtctagcagc gacgactgcg agtgacgcac ttggtccgga aagcatcatc  120
cgctagagat aatgcaaccg caggccacac taaccaagct tttcgaatat tccaagcta  180
tgttactact tgctctgttt gtcgagtagc tcctgaaggc tagtcctcgg cgagcaaacg  240
tcattcctat aatgtacacc tgcgtacatt agttggtacc gaagttcgag aggagacggg  300
atgtcacctt ttcataaacg caaacgcatt tatcgtcact catatcagga tcagatctaa  360
gattgctaca gtcctcttaa gtggagcaac agcgtcttct cgcagaagtt catagtgggc  420
tttcagatac gtatctctcg atgccaagg cttcaatct tgttcggctc gaggtcgacg  480
aattccccgg cgaagttaaa cacctcatcg gacgatggga gttctggctt caatagccat  540
ggctccgaat ataaagtgtc aggatcatgg gtgtgaagct gattgaagta attgcgtatg  600
tcttcggtaa cggttgcaac agtgcattcg ttcaaagatg cttgcctgaa cacctttggt  660
agatgggaat tgatctcttc ttctgagtc atagtgggac tggattaagg aggtatgtga  720
gaagatgcac ctctgcgtta ggagagaagg aagaagaaga taggtaaccg attattatgt  780
gttagaaact gaacaaaaca gagcagcaaa caagacttgg actaaggccc agcagtcact  840
actaccagat tcacttgcta ttgttctct gctgaatatc ctattaatga tactctctca  900
tcgtcaaaac cggtgttatt gcgactgtca cctcttttgc tgatttcgct gcagcaagac  960
gacgcactta tatgccatct tctttcaggc atcccagtca cccacatatt tcttaggaag 1020
caagacagtc tagccagcaa tccgcgaacg gtgtcgcacc cttatgaatg ataattggtg 1080
acgacggtat actgcggaat tcggtgttgg gttctgagac taacctgata tgggtgtacgt 1140
tacacctcag gcattcaaat acaggttgga aacgtgattg acgtcggaaa caataatgtg 1200
atcgatacct cgcactggag ttgcggttga gctgccggga tatcagtcac tcctttgaac 1260
tcttatgtca accgtctctt tatttttctt ctctgacag cagatctatt cttattcata 1320
ggcgcggcga cgatagctcc ggaggccatg aggctctgat ctccgcactc tcccaggctcg 1380
cagagggagc aaaggctgcc tgcagcagag gagaaacagg acgagtcgaa taccctcgca 1440
tacgagctgt cacgttactt gtttgcgat ttgttgcta atttccgcaa tctgcggtaa 1500

```

tactttcttcc aaaacacgat ggcttcaatt gtggaggacg aagacgatcg agacattgca 1560
 ggtgagtccg ccttgcaatt cgtcttaagg ttcgagcggg gactaactcg tcggcaacac 1620
 tctaggctca caagatggaa gctcggataa cgacatggat gatacactca gagatgcgga 1680
 cgagggcggg ggcgacaatg aacctgatat ggacgcggat ggcgatgcag acgaccagga 1740
 tgccgacagc gcgtccaatg cgagccatgc ttctgaaagc gccgaagtag caacgcaaca 1800
 gaaccaggag actacaatga ctccggttcc cgacaatgcg acgaccgacc taacctccgt 1860
 tttccatccg agcgtgcgtc ccgaatgcct gacagcttcc agctacgata tagtccccac 1920
 gaccgctgcg ccgcacagta cctcgattaa cgccataaca gcgaccgcag atatgcgggtg 1980
 ggtgtttagt ggtggctccg atggatatgt gcggaaattc aactgggtgg actctatcaa 2040
 cagtaagctt atgttgactg ttgcgcaaag gcatccgttc gtcgacagcg tgataaaggc 2100
 gggcgttctg atgacatact gggagaacat ggatggaaat gctttatcgc cagtctattc 2160
 gctggcctgt caaagcgaag ggctctggct gttatctggc ttggaatccg ggagcattcg 2220
 actacagtct atacggcacg acgaaggcaa agagattgcc ctgttacagc agcatacctc 2280
 agcagtctcg gtgctttctc taacgtctga tgagaaatca ttactttccg gtagctggga 2340
 taagcgaata tatgattggg acctcaatac aggacaaacc agacgcgttt tcggatccag 2400
 cgccggtcag atctcggcaa ttgagctacg ccctgagtcc agcttgccag tccccagaga 2460
 cacaactgag attcagcaac ctaatggaac tttctcatcc aacaatcagg cgagcggagg 2520
 taatagcttc agctatatgg acacaacgaa tgatcagggc gacaacgacg cgggtgaacc 2580
 gcaggccgga tcaccagcag actcgtcttt tggaggagct gattctttgt tcggcgatgc 2640
 agacggcaca gctggcgatg gactgggcac agcaaccaat tcgtttggca tagatgacga 2700
 cgatgagttc ggcaaagctc ttaccaacgg tgtcgctcct gacgctgatg ccgctggcga 2760
 accagacaca gtgcagcaaa aaaatctctt tgactccaaa gatccttcca atgatgcccc 2820
 cggcgtcgat tcaaacacac ttgtacccaa ccaaccgcta gattctcact caacggacgc 2880
 agtaaataac caatcccaac cattagttaa cggccttccc cacgctgaag aactagaacc 2940
 gccttcacag agccaagaac aactcaatc aacgccgaca gag 2983

<210> 1882
 <211> 474

<212> DNA
<213> Aspergillus nidulans

<400> 1882

```
accagtagga ttctcacctc aaagcccagg gaatatgcgc gcgacgccgc gccaggatgg 60
ctggcaccta gtgtatcctg atagcgctc acatcgccgt ctatgccatg atgcatgagt 120
gcgcgcaggg ttgcgacgag cccaggaact gcaagccaca ggtatcctca cgccagagcg 180
cgccacccgc cgaaggggaag acacgggagt gcaacgagct atggcatctt tttgagaagc 240
gaatcagcta gacatacccg caagcgccgc aggtcgtgga ccaggttaca aaagacagga 300
ccgatcaagg ggccggcgcc gaagcgggtca tcccaggagc gcaagccgta gagggagcta 360
tagcggacgt ccgagaccca gaacggatga ttggacacga gctagcggac gagaggacaa 420
gattgggtta ggcagggggc gatggcgcac gaagcgcagg ccgttcgggg aaag 474
```

<210> 1883
<211> 3448
<212> DNA
<213> Aspergillus nidulans

<400> 1883

```
tcagcatcag ttggatgtga cgatgaccac gcaagggcac aacggaccaa taggactagt 60
ttagatcttt tcctgcatag tgggtgcgaac tccatttccc cttttacccc tccttgacct 120
aaacttcttt gctctctgca aagaagtcct ctccggagaa agaaacagga aagacgaagg 180
tctaggagta tcgtcggaca taactagtga atacgacgga aggcttcata ctgtttatct 240
cccatcgctg tcagtactag tatttccgat cgccgtgtgc ctgcggaagg ctccgatcga 300
tgctgtcaac aattgcaata ttgatggttg aatttgtctc tgcaaaggtc tgccatgatt 360
gcagatacca tgccgcggct tgcgatcatg acttgcacag agtaggctga ttgcgatgga 420
gagtgtcctg agtgccgagt ctgaattata cgtggagcga tgattcgaga tttcagcaag 480
gcgcaagaaa aaaacgaaag gagaagacgg cgaagatctc agagaagcat ttgttaatgg 540
acagctttca gcgtggctca taaggagaac acagcgcagc ccactcctgt caggatcaag 600
ctaatttggg ccagtccgac agctgtgtgg gttcttcagt agaatacagt cctcacggcg 660
cccgcaacag ctgtcggccg gtgcaacacc agggctgaaa gacgtcattc gggaaaatac 720
aacccgagta aacataccat cgcaagtaat cgctggcaca catatctttg aaacccttta 780
```

cacctaaaat tgaccaaaagc ccaaccgttt agaacatata ggaagactct tcggctgcag 840
gtggaagagt gtgcgggtca aagaaatgca cgatgaattg tttgcgggac tagcggttgc 900
ctcacctctc cattatcagc aggactgaca ggcatgcccc aactcggagc cctgaagccc 960
ctgacaaaca aagccgactc ctgggatcag atttatgaca ggccacgacc agttgtagcg 1020
atctgcgagc atccccagcc gaaccaaagt tgaaaaggcg cttatttacg ctcccgttat 1080
gcttattctg gcgctcgggt cgttccaaac tctagttacc agggatttaa gcacggagca 1140
agcctatggt tccccgccc gtgaataatt ttcaagtcgg caaaggcaca aaacaaagaa 1200
aattctggac atatcaaata cacgaacaga tggctcttag catactctga ggggcaccgt 1260
aggcggaggt ggtcgcgaat caatgtcgtc gctagagtca ccgaggatcc tctaattggg 1320
gaaaaagtta cctatgtaca atagatatc atattcgact acccgcgaaa cgcgacgaag 1380
tcttgaatga gggatgctga gatgtcgggt agaacaactt gacacctgcc gagacccttt 1440
tccacactta gccatcaatg accagccgcc caggataact atcctacagc gtggactaat 1500
tcaaacaatt cccctcagcg gaaggcccat tttattcata tgggcagaga gcgttattgc 1560
cttatgcaat caatcactgc tctgcagcgc tgtaacgtac gtacttttta cgaagtatgt 1620
gtatgcaagg cctcgatgag caaataaata taggcctaa taggtagccc ctttgacagg 1680
tggtactcc tgtacgggg gtgggttcct ggattgagtc agtcaaagg tgcgttttgc 1740
gttttggtt tcttacctg taaggctact ttgcatgcag ctgggcccga gctggaggct 1800
actcttggga agtacggatt gcaatagcgt agtcgaagga tgacagaagg tggcctcata 1860
ggaactaggg ccgatgggta taaggacggt tatcctgcaa cggtagcctaa tgctgccgtt 1920
atcagactgt cggcttagga tcagggtttt gttgcgcagg agtagcgaca gaatgcaaga 1980
catggagcca tcctgataaa aaggccccgc cctattgacg atgacgtcta taaatatacg 2040
ctcataaata gtaatagtac atgatgttac tggacatata taatccaatg ctagtcgtcc 2100
ctcttttact ctcagtcgct acgtaccggg ctactccta gcgggacgcg caggaagggt 2160
tccataagaa gcgccgcggc aacgcttaca ttgagactat caactcgagc cgggtcagag 2220
gcagctccta cgccgggaag gagtctggca ccagggatgc tgacaatgga atcggcacgg 2280
cccttgatgt ggttgctaag accagatcct tcgtagccca tcataattac gctgggac 2340
tgtccgatga gggcgtcggg gtgtccttca ttcgtaccg ccgagccagg aggttgtagc 2400

gcgccagggtt caaggtaagt agcacctgtc ttaggaacat ctgcagcgta aaatcgccag 2460
 ccgttggtt gggaccgctt gatgaagtct acttcgttct ggacgtcaag aagagtcattg 2520
 ttctcggcgg cgccggcgga ggccttgatc gtgacgggcg acagtggcgc cgagtgtcgg 2580
 ccggcaaaga caatggcgtc aaccccgagg taataggcgg agcggataat ggaccctagg 2640
 tttcccgat caacgacacc ttcgagtagc acgacgactg ggtatcttat ctgctgttgg 2700
 gtgtatgaat tgttgatttt tatgcagtca ttcgtcccg tccctctcgc ttcctctcgc 2760
 gtttgcggtg cgagttccac tttgaattcg ccgtcaccca attggacagg cctgagtgc 2820
 tggatgggcg ttcggggaag gggcgatact tgcaggacac acccgttatg ggggtcttct 2880
 gcgctcattt tatcaagcag tccgttccat tcaccgaagg ccaacttgac tttgacgttc 2940
 ttggacagag caagtttccg caacaccctc ttgtcagcgc tcaactcttc ttctccggct 3000
 gtctggtaaa gatagagttt gtatagctgg cgcttgcaac aacgcaacgc agcttcgacg 3060
 gctgtcgtac catagataaa ttcggatgcc gaagtgggtg agggaattgt ggggtgggacc 3120
 cagacatgct gcttcaactc ttcaggggtt tcttctgtag gcttatgggtg ttctatccga 3180
 cgtgagcgtc gcttttcttc atcttcaggc gttggaacat attgtgaaga gcggccgctc 3240
 tttgccgac gagattcatg actgtcacgc atgttttgcg gtaagcgacg tctgctcgca 3300
 gcattagatt ccttattacc gcgtaagtcg tgcgcgtttt tgaatcgttg atgttcagga 3360
 ggcaatgcac gaaagtttcc ggacctaatg aattcatctt catcgaacct catttcggga 3420
 agcgcttgcc ggtgcacttt tctattgc 3448

<210> 1884
 <211> 1169
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1884

cagattgaga gcgttttttag caccaagagg taagcagcag tacgggtggt gtggaggtga 60
 tgtagcttta tgcggcagga gagcgtttgc cccagtcctc ctggagatga tgacgactcc 120
 ccaactccgt ttacctctgg cgagggcgcg gcgtttcaaa ccaacaatcg cctagatagg 180
 gctggagtcg cgacaacgtc agtggcaatc tattaatctg gaggccgacg ctttgaatgc 240
 tgcagaacat ttataattat ctcttgatgc agcctcattg agcctcgagc gacgttgtca 300

ccagagggag atgtctcccg ctcatcag cctcaccttt tagcgtcgaa attctctgaa 360
 ttgcctgcgc tataaggatt tccccagatg atttatctgt gattgcgaga ggtacattga 420
 acagcaatac caaggaagct ttctgacgcc gcaacaacta tattctatag ctttcattac 480
 gcacgatcgc cattgtggta taagccagtt gtcctaaatg cagtatatac tcttggcgat 540
 aatgaacca tactcactct gaaaatgttc tccaatacag ggtatattcc tataaaaacg 600
 aaagaaaaaa taagaagaga aaagaggaaa aagaaagcac agcggatgct tcgaattccc 660
 aacgcagacc tgatgatctt attccatcag ctgtacagtt cagtgcctgc aactttgggg 720
 atgatcttct tcaattcgac ttcgctgctc aatgccctat tagcgacctt gaaagcttca 780
 tccagcaggc gaacaaacgt acaagacaag tccagaatcc gggggaatca acccaggaaa 840
 ccctctcttg ccataaccgt tatcgctgca ttcacatcag tctgtggcct ttcgacaatg 900
 ccagttcaac accgagtctt caattagaag atacggtgac ctgatgagaa ggggggtatag 960
 acggacatac ctcgatattg tgaggatagc cttctcacca agggatcatct gctgcacgcc 1020
 tttgtcccag cctgtattgc atccgttagt aaagcaatct tgtcaggcac catgctctgt 1080
 cccacaacta cagagcttat gagcataccg agtataacct tcccaactcc aatctccgtt 1140
 ttcagtgggc cccgaccttg cgaggtatc 1169

<210> 1885
 <211> 825
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1885

ctggaacacc aggaatccga ctcgccgct gccgcgcac aagtttgcta atgatctcct 60
 gcaactcctt ctcaaacca agctccatca accgatcacc ttcacgagc accagccacc 120
 gtacattgct cacgtccaat gcctgcgtgt tttctaggtg atccgctaac cgaccagggtg 180
 tcgcaacaag aatattcagc cccttcgca accgcgcttt ttcgctcttc ttcttctcac 240
 caccaataac tgttccagcg actatccaat ggcacagcg caacagtccc tccaagacaa 300
 ccgagatctg cttacacagt tctcttggtg gtgctaagat aatcgcaaac aaccgctgt 360
 ctctatggac gctcgtgtca cccttcgcat caccttcgtt ctttgcgcg gaaagagcca 420
 taatccgctg cagcagtggt agtaaataag ccagtgtctt tccggaacca gtctccgct 480

ggatgaacgc atccgtctct tccttcagga gctgcgttat tgacgctttt tggatagcag 540
 taggagcttt aagttcgagt ttcgtgagca ggtgtgcagc gagggtaggc gacaacccaa 600
 gattcgtgaa tgtgtccagt ccgtcaatga gcggggcggt agtcggcttc gcatcttcca 660
 tcggctcgtc gttcttgtct tcctccacag cgttgcgggg tcgcggtatt ttcgagaaaa 720
 gcgacgaaac gacagatcct ccctgtcctt tcttcgggtcc ctttgattgt ccagaacctt 780
 gtccgtgtgc ttgccttcac caagtttttg gaacccccgt ctgtt 825

<210> 1886
 <211> 3501
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1886

gatggcagag agctgactga agatttggtt acatttgtgt agaaattggc tacacccgag 60
 tgaacaacat tatatgttcc tagtatcgag aggctggatt gctgcctgaa tctttggcga 120
 agcctgtcct agggcccagc aggtgggggt gggggccgga aacattgggt tcctatacgg 180
 gggttcagga cgaaaatgca acgttttgta tccatgtaga tatgtgtggt tccttacata 240
 tttgattacc gtattctcta taagctctgc cgggcctcaa cacctggtaa tatcaagatc 300
 cgctcgaaa gaacaccaa cacctcttaa aatgcgctca tggatgtaat catcaaaata 360
 actaacgaga ggagacaacg atttataatg ttatcccggg ctctccctcg gcatctgggc 420
 taccgcccac tctaggatgc tttcgtagca aagtacaaac tgacttaagt tctgaaccac 480
 gctcggctctt tgcgtgcgaa agtcggacag tgttttcgca acaagatcca actgtcccc 540
 gccgagcaac tggtcgaatg gccgtccgtc atgctgccca cctggctggg cacgttgacg 600
 tttaagcaca tccaaaacac tatccacggt acaaaaagtc ccagtgcgac cacatcctgc 660
 gctacagtgc accaaaaccg gtctgttttg attacccggc gcagctttag ctgcgacgtt 720
 tcggacttta tcacattgtt cgattagact cagaagatgc cttggctgag aggtggtacc 780
 aaagtcgggc caatctgct actggatttg tgtaacttcg cgcagaggct cgaacggaaa 840
 acccgagtgc gacaaaccaa agtgctgac aataagcgtg gggttatcac ttgagtctgt 900
 cgacgacctc tcgactacag agtcgactgt ttgtgaatct gttggcacca taggaacgta 960
 tttctttgag aaattgttca catggaattg cccatatgtt ccagttttcc agtaaggatg 1020

gcatttgacc tgtcctcttt caacctcggc agtcagggac actacaagac gaatgtcttg 1080
ctcccagata acgcgccaga aatcctatag agaatgtcag tcgatacact tatcatatgg 1140
atgacgaaca cgtcaacgcg aaaagcaaaa ggtagaactg acattaaaag tatcaggcat 1200
aggggcttgg gtcgctatgt aatgctggtt gctatactcg gcttttaaat aacttgcggt 1260
cacgtagtca cagccgccat tgggtatata atggagtttc actcttgaat gatcgtaagg 1320
atagatgtcg ttatatcggt tcttgggccc cttttcaatc ccagcgacac gatatctcgg 1380
agacgaaggc ctatctgaac ctgcattatt gtctgacg tatgaaaaag cttgtttcat 1440
ccgttctagt tccgtcttct caatgtcgaa aaatcttgaa gcggccagcc gaccctgac 1500
tgcagggtcg gatacctcac gcaaccaggg cgggagagat tgcctttgcg gggcaggtag 1560
atgttctgaa tgtttcagcg ggatttgtcc gacgccacca agaagatcca tgtgctgacg 1620
tatgttccca aaaaagggaa tcgcagcatt ggacgattcg ggtatattgc aaccaccagc 1680
aacaggtgcg gattgtggaa gatcgatatg cattgaggag gttttctttg accgtgcac 1740
aagcgccggt tgatgctgct gttgtggctg ttgcgtgagt tcaggaaacc tagcagagaa 1800
agccttgaag cctcccatca agatcatgcc gtcaccattc catccttcag ctgtaaactt 1860
cttcaccaca ttgacgagag gggcagcatc tttcatgtta gaagttgcgg catcgtaaac 1920
gataatgtaa cggcactgcc tccaacggcc aaagtcttc cgatcagctt cgttggcgaa 1980
gggtttcgct aatttcttag tatcgaacga ggggcgcttg aggagggttg tggggatgca 2040
taggttcaga gcaccttga tatttctctt ggaaaaatgg gcgtacggtc gtacatccaa 2100
gagcataaga tcatccgct gtgatccaac aaactctgca caagcttcac ttgaaactaa 2160
cctcacgctt gatcccagga ctggtggaga gacaaacttc gttgttccgc tggaaagtcga 2220
atccccgcc tggcggttta aggagagtct gtagaccgct ggatcgggga tgcaagcagt 2280
ttttctgat cctgtacct tggaggagg ttgttggtcg gttaggtctt tctcggagat 2340
atacctccct tccggactat gattcggaag ggcattgtgaa aaatgtcctt tgcctttgaa 2400
attattcgaa ctttctgtat tgaaggagaa ataattgtct ggcagttccg ctgccgttcc 2460
ccggggaatg gtcccgcgcg ggctgaatct attaaaggat ggacgagagt cggacaacgg 2520
aaagagggcc gcaggactgg aaggaccggg gagcgcaagg ctttgggggt cctggggcca 2580
cggatgattt ggcatcttg ggctgtcat cgcagacata acttttgcac cgacagcaaa 2640

aaacttttat cttgctctcg aagacgatgt cgatatgaat cagtcctcca accagcttgc 2700
 catgtcgata tcgattgcga ttcccaagaa ggtgacgtga gaatgtaagt aggatcgta 2760
 aggaaatcgc aggtgtatgg acgggctcaa gtagagtgtc gtagagcaga aatgctcgtg 2820
 gggaaaaccc ggataacagg agatttggca aaagaaagac gttaaagacg tggagggtcaa 2880
 atagggttcg ggtaatgagg gtcaaagagt tatataatgt ggatgtgtat ggataggtaa 2940
 cgttgctgaa aagcgcgatg tggcggcagg tgaatgtaga agccgctcag tgagtgcgaa 3000
 aaaatgggga tggaatgtct cgttcccagg cggcagtcgg ggtctcctac acaacaatc 3060
 gtcgttccca ccaagtatca cataaggtea aatccagttg agttcctggg ccaatcgagt 3120
 ccgcagcaaa gcagtggggg tgaagctcga ctagtgagaa ctgcgaagga gtatcattgt 3180
 cgaccactg gtgtcattgt tcagaaatca gcaggtcaga aggctggagt caagcagaaa 3240
 aaacgggggg cgtgctatga cgttatgggc ggagggccgc gggcgcaaa cttctgtgct 3300
 agccagtagc cacaaccagt tcggtcgcgg tctggcccaa ccgccagag tgagattcat 3360
 tacgggttgg ctggcactgc cttttccttt cgccatttat tttttgttct ttttggttga 3420
 agtacttgtc gccactcagg cgaacacctg gttgaccatg ggatategat gaggaatttt 3480
 gattagagta cgggtgcagg g 3501

<210> 1887
 <211> 2465
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1887

tttccggcac agttgggtctt ttcgaccogt atgccaccca aaatatagtc atcctgttca 60
 gccttgtctg cactacaacg tcggttccat gctctggacc ggatcttctt gcgttggagt 120
 tctataatga gcatggggat gatgacgtat tcgagcctga ttgtacactt ggccaatacg 180
 ttgaagacat ctgtctcaac gcaaatgcta tatgtaccgc caatggttgt gaaaaacgga 240
 tgtatgaaca tcatcgccaa tatgtgcatg gtgaagctca gattagtatc tttaccagc 300
 attatccttc aaagcttcgg ggtttccagg acacaatctt gatgtggagc tgctgcaaaa 360
 tatgcggcaa cgagacacag gtgtttccta tgtccgacaa cacctggaaa tattccttcg 420
 gaaagtacct cgagctctcg ttctggagca agaacctccg tgctcgtgcg ggggtttgcc 480

ctcacgacct gcaacgagat catatgcgct acttcggctt caaagatatt gcgattcgga 540
ttcaatatga tcccatcaat ctgcttgaaa tcatcggtcc cagaacaaga gtgacctgga 600
aagttgataa tgacttgacg ctcaagaaag acgtctactt gaaatgtgaa caacgtataa 660
ccaaatztat gcagtcgctc aaggcacggc ttaaggcaat aaatgttgaa agtggtcttc 720
ccgacctcat ggaagattgc aaggcggaat ttgaaaatat gaccaagaag gccaacgaag 780
atcacaatzt gatgatcaag cagttgcagg aaagatatat gaattctcgg tattgggagg 840
tcatcccggt gaacaaagca atgagatctg tccaagaaaa ggtcgtcgaa tgggataccg 900
cgtttgctga atttgaaaag aatttcttcc catcagagaa ggatatcaga cgattggcca 960
ctctgcaatt gaagaagatt ttcttggaag gagatgcctc ggtgacgtct ttgacttcga 1020
atgatgaaca gccgacaacc ccaaccgata cagagaatga gcgaagtcag accccagatg 1080
gtgcccgaat agttcgccgt atgacgctgt ctctgagaa aactcaggat tttctaacat 1140
cggttgtcga agagcactct ggggagaaga atagagagat acagcccga gatcaagtta 1200
accttgacga gatgcgttca gctgccgcat ctctatttcc agaagagacg ccggtatctc 1260
cgtcacaaga atctttccat ggaggagctg aagcagagaa caaaaccag gatcccgact 1320
caaccctga aaagcaacga gatgatatag ctccgtcctt aagaaccga gacattgcaa 1380
agcctacatt ggaccaagac aacttggaag caaccctga agcctcggaa gccaccag 1440
aaaagggtag tgatgcgagt agcaggaaga gcatgaact cgaacagccg accactggat 1500
taccttcaac accacaacat ggattctctt caatcccacg gccatcagag ggctattctc 1560
gtcgtaatgg gaagtccact tctccgcgc ttttgctgc gcggacacag cctgccctgt 1620
ctctcaagga cattgggcca gaatcgatta aaggaactcg acttagtcca ggaaagcttc 1680
aacggcccag tggcactgtg agcccacctc tggagttcaa atcgaagaac tcagataaaa 1740
gactgtccga gcgttttaat ctcaacgcgt tccgaagtgc acggcttaca gcaggatcaat 1800
ctttgatacc tcgctcaata cctactaaga aaaaccgcgt ttcgtctctg gccaaacact 1860
ttgagcaact gagccgtgag ttgagaaaag aacgacagcg tgacgatgcc cagagagctg 1920
ccaaaggtag ccaactccgt gcgtaccctc ttgcttcgtc aaagcctatt gtggaagtgt 1980
acaagaatgt tcgagaggcc gttgaggaac gggaaccctc tgctgagggt gatgatattc 2040
tctcatccgc tccgcggcat tcgacggacg actcagctcg agggagtcag gattctgcga 2100

gagcaccttc aaccgaggag cagagtagcg ccccgcatth ccagacatca cctcctgagc 2160
 cgacggcaga ccagccccag gaggttgatc agaacatatc tgaagggtgag gttgaggagg 2220
 ggcacagtga cgaagaacgt acctcagtag acgagcatca tcttgccgat ccagcgatg 2280
 agttgactaa ggactccccct gaagatgagt ctctggacct caaggagcta ccgaagcacg 2340
 aaagaagtac gctcctgaaa ctgctaacga acttctggtc agagcgggtca gccagcgggtt 2400
 gggcacctct agattatccg ctactatgt ctgatcacgt ctttgccgac tgcgatatcc 2460
 tcgtg 2465

<210> 1888
 <211> 3053
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1888
 tcgaagaatg ccgagggcga ggtcgcaaga tataaccctg acctctcaac tccgggttct 60
 gcgtcatccg tactgccacc ccaaagtcac ctacttcag gcaaaccagc atcggggacg 120
 ttgactggcg atccgtcgac tcagcagctg aacgcgggcg tcttgacaat aatgggcgcc 180
 taccaggtgg gcacgaagat gtgtatatgg atctcaacat gagtcattcc ccacggcatc 240
 gccccgtga tggctgagca gtggccta agcacagtca ctggacggca ctctgagtct 300
 gatataaata atcctttcga gtcagaaggc tttttttgt gctctgagtt gtggctgcct 360
 attggtgtgg caaacaatgt ggcggagccg ggtttggtaa ccgctgagaa cgtagaggca 420
 ggattgctgc atgtgcagat aggagcatgg gcatcagga cggtcgggga gagcgactgt 480
 ctgacatctg atagaccgtg gaagagacgg gctgcatccg ctgcattcca tgggtcagaa 540
 taagctcgtc aggtaacctc accagtgaac cagctcctgt tgggctgcac gatgggctta 600
 ccgctgggca gccaccacac catcaacaag gttttgacac cgcaactcta tgtactttgt 660
 aaggacagca tctccagga tagaatccag cgcgcaaaa atgagcgctc aacctatcag 720
 ccgactattc cagatccaga gcggcgctct cgggtgtcga agagttaaag ccagtgcgac 780
 ccctggcata tcacacaaaa gcaacgagat taacgagatt atcaacttcg accttggcag 840
 agtggctctg atgctcgacc gcaaccaata gcgcaaatc cccgatggaa aagatttaga 900
 gtctcgctag aagtcgcgga tcgcaggggt atgggtccgt caggacacga taagtcaatg 960

atcagtcagg ctgcgaacg gcctgcatcc attgcatttc caacataaaa gctgaccagt 1020
 ggctacatct ttgctatcta actgaccagt gactgggtgag ctggactctg atattgattg 1080
 tcgcgcgtcat cgcgcattat cagggttccca ctaagttctc ctttctgctg actcctttcc 1140
 tcctctgcct ttttatatta cccagagaca aagcccaagt ttgagcgcgc tgagacctgg 1200
 tctgactctc acaccgtctc tcacaatagt gcccactgc agagttttca ccccagacc 1260
 ccttgcaactg gatctcttca tttgattctt tctgtgcaat cacagccttg gatttacaat 1320
 ttaatatattg tttatttata ttccgtccaa tcttgtgtgc catgcccctt tatccgtacc 1380
 gtacgggtatt ttgcattac cagcatatct gagagccacc aataccacat accttgattt 1440
 ggcgtccgtc catcccggtc cttttatcct cgagtcgact accaagtcca agaccaaggc 1500
 atgaatggcg agtccacca ttgcatagc cggtcgcgtg attcgcgcgt tcccagaatc 1560
 agaaaataccg tcccccttcc tcaatgtacc cgtcttttag tctagtgtct tcctctcagt 1620
 cccaactcag ctgcactggg cgggttggtt acactgtcta aaaagaataa tttctcgatg 1680
 acgcctatgg taacaggatc caagcctcat gccgatcagc ggcaggcgaa atgaaaataa 1740
 aatgagaata agaaaaagca aggaaacgtc gcttgctgtt tcatttcgaa cagaaggatt 1800
 gtgcggtgcg tcaatgctgc agcccttgcc ctgagcccta gatcgcctgc tgggtgttcg 1860
 gactgcgaag gattggcgct gcagcggctc gcaagctgca gcctgcatag gcaggggact 1920
 ttcgttgcac gttcaggcca ggccagacc atacttttat cgagtcggct cgtccgttta 1980
 cctggttggg actggaatca tgtccaagtg agaactgggc aatctcaaac ccttacgcat 2040
 gaacatgttc ttactaaaga tgtctctcat gtcattctgt taagtcacaa tgtatatgca 2100
 ggactggatg ctgcggccaa actgcggcca aactacggcc actcatcttt cctacaaaat 2160
 aatacgggtg ccttaccgac tccttttatt tagccttgca tatcatcctt gaatacgaga 2220
 gcgcctacgg aggacatgta ctttccaggt tacgttgagg taaaaaaagt actactttct 2280
 caccaccagc caagcaaact agccgcgaca acgcacaatc ttaatcaatc cttctgatgg 2340
 attgttctcg gtcgcgtcat caatatcgc ccatgagctt ggtacttggg actccatcat 2400
 ccgtacgcc acgcctactg cttataaacc acatgaacag tcccagcacg gtaatgacca 2460
 agtaatttgt tacctgcacc actgcaaggc tgcaaggctg gaccgaactc ctctaacca 2520
 actaactttt ctccgacatc atgtattaca cgacataaca tgtgctgctg tccaacgcag 2580

tggagtgggg gatatccccg caaatgaggg cttgacacgc tggctcagac tcagaataac 2640
 ggtaggatcg ttcgtaactt tgtggtggat tggcgctacg gggaatttct ggtgatcggg 2700
 tttgaggttg tggaggtccc gttagatagg tagtcaaaaa accccacttg caaaatggaa 2760
 accattgcat acctcacgct gatgtgactg atgatttata ctgacgagac tggcatgcc 2820
 ctggccggct agttattttt ctggtggccg gagggccaaa acgggtctaa actagcgggtg 2880
 gtcttcaaaa ggtattcggg accaatacct taataaagaa aatcatttc ctaacatcc 2940
 aattgttggg ggtagatacg tgcctctttt ctttttttct ccacctaacc gtttgtttca 3000
 attcccatgt ttctacttgt tcattttctc atattctatc ttaatacact ctt 3053

<210> 1889
 <211> 2956
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1889

tactctccag gtccgtacat ccgttctcgg cgtccgggta tccaagtcac gttttgttgt 60
 tgcgctactc aatagcattc atacgtttgt cttctcttct ccgccgaaga agctagcggg 120
 tttcgagacc acggataatc ctttggggct ggcatgtctg ggacagaagg tattggcatt 180
 tcctggtcgg tctccagggc aagttcaact tgttgaactg gaaacgggga atggttagcat 240
 catacctgct cacagtacac cactacgtgc catggctttg agtcccgatg gagagggtgct 300
 tgcgacagcc agcgaagcgg taatccctcc ttgaatccgg ccagcactca attccgctaa 360
 ctactggtcg cagggcactt tgggtgcaat atttgctacg agcaactgtg caaaaatggc 420
 cgaacttttg cgcggagtgg atcatgctat tatattctca cttgccatct ggccatcaaa 480
 caacctatth agccgtgaca tctgacaagg ctaccctcca tgtgggtaac ctcccacatc 540
 cccgcaacgc cccgtacagc aaccagcaag catcttcata tgacgacgga gtgaacaaga 600
 aatgggggtat acttggaag ataccgctgc tcccgagagt gttctctgac gtctattcat 660
 tcgcaagtgc acattttgaa ctgggagaag aagagccagg acccacatat gcacccccgt 720
 tgggcacagt actaggacga cctccgaaag gtgtaatagg ttggtcgaac gataatacca 780
 tactagtcgt tggctctggg agtgatggca ggtgggaaaa attcgttctc cgtgacgacg 840
 aagaagggaa gaaacactgc ataagagaag gctggaagaa atatctggga agcgggagct 900

gacggagacg tccgtggcat acatgctcaa cgtgcgacaa gatagcaacg caatccgaca 960
 atgtcaacta aataattccg gcgacaaccg ctaccgattg aattcttttag caatggcgac 1020
 atcacccaag tgagcagtca ttctcaacaa cgtgcgagac tgagaatacg ggcggccgta 1080
 ctggttctac tatcagtcta gctccagccc taaagtccgg cagtagatat cgggtctgaa 1140
 cgccaatgag ttccggcaaca tattccgcac gcagcagtcc tattattcgc ttggcttgtc 1200
 atgttcactc ttaccgacga cgatcatgtc tatctcggtc atggcggggc gcaggggagc 1260
 gagagcgttc cgggagatttg tccctgtaag acctatctcg tcggcttcgc tctctgtagt 1320
 cgcggtctgt tctttctctg gaacgcgac tatcatcggt atgtcggcgg tggcggtgat 1380
 ggtgtcggga atgacgactt ggtctctctc ggctagactc gcgcgcgcgc gaagatctct 1440
 cttttcttgc ttctttctcc agagctcggg ccacttcttc tttcttctcc tcaatgagat 1500
 attccttcat agggtcctca tcgtcatgat tccttatcag ctctctaat tcaatctcct 1560
 cttttagaag ttggcgcttg ggttggtccc tctctccgct atgtcctctc tttcgtcttc 1620
 ttccctcacc gtccgtatcg ccgtcagcct ctttaccagc cgtctcgcgc aataacttgg 1680
 caacattatt tgtatcctca tcttcgtcgc gctttttgta tctcgtatgg tccacacgta 1740
 gtaccctgcc gagaaccgtc gctccacca agttgtcaac tgcgaggctc gtactccgct 1800
 ggtcttcata ttgagaaaa gcaaaccctc ggctcttccc cgtttctttg tcgcgtacta 1860
 ggtttatgtg taccggctca ccatactgcg agaatatggt aacgatgtca ccttctgaga 1920
 gatcgaaggg aaggccgccg atgtagatgt aggctgtgtc tcgataatcc gcgtgccagg 1980
 aagcttcggg gggactggaa acggccatat taggagctgc acatcaagca aaaggaggta 2040
 tatacataca cggcatgtc tagctcgcgc ttgttcagcg cttggacttg gcgaatattg 2100
 ttcatgttat ctgtggtctg tagtagaaag aaacgttgat ctctgatgtt ggccaatcga 2160
 tagcttccgc gggatatctc catcacgtga ctttaccttc ccaaagaga tgggatattt 2220
 gggtaggtgg atcctcagga gagaggacat agaataacac ccgctggcgc gatgctgaac 2280
 ttgttgattt taatactatt tactacatga cgcgccgaac atctgactac accagaatct 2340
 acgctcatag tacgctaact tacaatctcc gctagcataa tctcagaaca cgttctttga 2400
 accgctctgt ttccactctg ttgcccgaac ccccgttcc tcgccttga acaacgcgtg 2460
 agattcgcgt gagctgtgaa atcttaccta gaaggtttgg atggtctgcg ctagctaaga 2520

ctggtcagtc tcggacagac gatgtctacg tcaaaaagat ccagcacggt gtccagtaaa 2580
gatgggctga agaagaacat ctggctcttc atgctggata gcgctgcgac tggaaagcgc 2640
ttaccggaaa agaactctgtt gatactaggt gcgacagctc ttctgagttt cgggtcgtcg 2700
ctaactccgc cttgttttagg aggcacaccg gagagccagc gagagtccct agaagcctac 2760
tctgcagaca ccttggtatc cagtctatcg aacgagaagc gaaaaggaaa agggaaagtg 2820
ccacctgttg cgaatcaatt cgccctaggc tacacgtacc tagatgtgtt ggatgcggac 2880
caggaaggta tgtcggcagc acagaattgc ctaccgcaa tgggagtgat aacggatgct 2940
aagactgtga caagat 2956

<210> 1890
<211> 1534
<212> DNA
<213> *Aspergillus nidulans*

<400> 1890
gaaggcggca tctgcaaagg gcaagtgaca ccggtttggt tcacacggct ccctcctgtc 60
tcagtcttct tggacagctc gcgttcacac accacggtag ggaattaaat accaggccac 120
ataggcacac tccaatccac agcgccagtt cgggtgccgta gataaccatc cccaagatat 180
cgaggcacgg ttcgaacact gcgcgtaaag catgagcaag gttctatcta ctcaaatac 240
tgtgtacggg gatatacaagt acataccaac agaaacgagt gagaacagat ctccggccgc 300
gtcgatcgcc acgaagataa aactgatacc tcggacggtc cgatgcacgt agatgtccca 360
gtagtgggcg agcacgcctg cggctagaaa gcaggagctg aggacggcca taatggttag 420
cggccatttc aggttcctgt ctttggcgct gcgcagagcg aataccaggc cggtttcaat 480
ggccccaagc aagagaagca gggagaggac ggcaccgatg cactttcgga ttgagtgttt 540
ctggtaaaag cgtgacatcc cggtgcgttt caacttaatg gtatgaaatt cgcatacttt 600
cccatagtac aaacactgcg cccatgtgac caggctcaag aacgtgagaa tctgggcttg 660
cacgcgaagg gcgatgttca gctctgagac gatgttgtag acaccgagcg ggacaccggc 720
gattgcccag agcatcatca tggatgcttg caggccttcg gtgtcatggc ggcgataatt 780
gataataatc tgagggagga gcttgaggtt cagttagcgc tgatatcggc cagcgacttg 840
ttaaaggcc atgtatacct ggatggacca gcagacctga tttggttcgt tagagaagct 900

agtgggtgagg acgaggtatt ttactgtgcc agatgtgcc agtatgtttg cggcgacggg 960
 gatgttctta ttactatgta ttttagttt aagttttatt ataattatt accgtaatgt 1020
 ctatttattt ctaattattt tttatgtatt tattctttac ttgttttttt tttttatatt 1080
 tattttcctt cttatttttt ttttttttc tcgtttcctt acgatgaatt attttgtttt 1140
 cgtcttttat ttattatttt attcatttta cttatacatt tttttttata atattttcga 1200
 ttttttattt ttttactgtt tatatttttc tgtatttatt gtaatcatta ttctttatat 1260
 gtctattgtt ctttatectc attattttta tttatcttct ctattttcgt tttttatcat 1320
 tttactttac tatactctcg atttactttt tataatectc ttcttctatt tttatatata 1380
 ttaccgtttc ttgttttttt ctattttctt tatgatttaa atgtgtatct tatttttatt 1440
 tatcactttt taatattcgg tgtctttctt atttattatg atttctattt acagttttct 1500
 atatttatat ttttttacct aaattatgtt tctc 1534

<210> 1891
 <211> 1211
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1891

actatgcttg tgctactact tttcttcggc acgggtggtg gaattgccac agttggcatt 60
 cgattcttgt ggattagtat ttttaggatt cgactgggtc atacttcccc acaagcctta 120
 ctggtaatga cggccatatt aatgttgctg attctggctc tcaactactc gatttccatg 180
 attgttgcac ccagtatgc gacatttga ccacagacat tctgtgaccg actgtccggt 240
 tcctctgtgt tacctgaact acaatgcgtc gtcaagcgtt gctcggaagc ctttggttagc 300
 gatgccgcca agaaggctcg tacaccaggt gttgccagca cggtttttaa tagggtgacc 360
 gtaagctttc ctttttttgg tgcaatcttc ttctggagcc agtttgcttt catcggttag 420
 taacccttag gttatttgct gagtctatac tgatcacttc aggggtttac ttgcttgctc 480
 ttatcacttc gcttttgctg tctccaaagt tagacgaaca acaactggat gaggatgcgg 540
 aagaggctga ggaggaggct ttgctatcag gttctaggag aaacatggat gatcgatggc 600
 aaagtattgt tggcagagct agcagaagtg aggacacctg aaaagtagta ggaagtcagg 660
 cttcttatga tacaactgt ctcagtaggt attggatttg gcaatctcaa tttcattgat 720

ctcccatgac tatgggctct tctcttctga tctgcctctg agagcataca gtacacagca 780
 aaaacatgga ccagtcacgg agcactcaag ccagagttta agcaagactt cgcctaaggt 840
 ttcgcacgat cattcaaaag tgcaagtga cgcctaaatg cattgacaac atccatatct 900
 gtattgagcc attagagggtg aatgtaagcc agtaccattg tgacttacag ggtcttctct 960
 tcttctccag actctcttga gaattctgga catgggtgcat ctgcgttctg aacctatgga 1020
 taggggtcaat ataatgcaac ctacctattg aaagagacaa ccaacctttt cacggctctg 1080
 ctttcgtcgt gtacaacggg agtctgagac caggatgtaa gtatctaaag gtcaaagtgt 1140
 agaaatccca ttgcgcatgt tgatatcgga cataatacgc tgagcagtct cagtatatgg 1200
 ttgoggagct c 1211

<210> 1892
 <211> 4498
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1892

cggcgcgtcg agctcgaggt gcgcgtgatt cattctggat ctgagggaaa ctgcctctgg 60
 agtgctctgc tgcagtgggg tcttaatgaa gcggaccgct tgggcttgat aacataacct 120
 gaggcaacgt aggaggggag gccactgtat gagcggttcg ggtttgaggc tatcaaggta 180
 gtggagtttg atgccggtgc atttggaggt gtagggaagc accagtatac cgtaagtga 240
 gtggtacgat ccactcatgg aatcgcta atggatagtt tatgcttcgc cagccaaagg 300
 ggtttcgcta gtagtacata ctttatccg tataacgagc aagcatggtg ggagggcg 360
 atgcctgct attgtgattt tgaccggccc tatgcattat gatccttggt cgtttctttg 420
 ggctctcctg cgctcgggat tctgcatcct acaaggaaag taagactgaa ttctttgttc 480
 tcaagtcagc gtttgcgga acattcaagt acagttccac tagttgtccc aggtttaaac 540
 atagattgag gaaccatgaa tggggtttgc agtaccctcg cgagcactag ggcttgatgt 600
 tcttggtatt tcactgctca tgactccaca aaaccgcgta gatgacattg actctagcca 660
 ataaatgatc ttcaaaggcc ttttggcatg gcttggccat tgccggcagg ctaaataatt 720
 tgtcttcccc agacacagtg taactaggca cattatacgt cggacgcccc gttgggcccac 780
 gccactgcag cccagcctc tgatcggcgc tgcaactgtt caccgcgtt caagaggcaa 840

agtctgcatg attccgacga tctactaggtc tggggcactg gggcttgaca tctgaatcga 900
 ttggtttcgg gacaatagcc gccgcatggg tttgacatgc atgtcatcca ggtctctgaa 960
 gttaccgaaa ggcgattctg catttctctt ccaccggatt ccccgcgctc tgcaagatgc 1020
 ggtgatcttc tgaatggcta tggagcacca aaataggatg atcttttgcca tattgtcttg 1080
 ggttgggtaa aatcttatcc acgggtacttt aagtggcgcg tctactgaaat agcaagattt 1140
 cagatatata taattactcg tcttccatct gctctgcaga tgaaaagtca ttacatccca 1200
 gaaatgcagc tataacactt atgacataga tcatcttcgt tgccaaagggt tgaactactt 1260
 atgaaaagac tttatcatct gagtaaaact cgagtgcacac aaggatagggt ccgtgtcgtg 1320
 aacatggcaa gcagcaagac tgtaatctac ttgagcgagt aatcagtcct tgtctggggac 1380
 tgtttcgtgt acgacggcac cgtctagaat gcctgctagg gtttagcgat agacaagggg 1440
 ccatctgcac taagtgcctt tcgcgccgtt cgttgaatgg ccagaatacg attctcgaa 1500
 agttcgggca acgactatta tctactgggg tctatgtaca accctcagat cgacccgatt 1560
 ttgtaccagc accaagtgga caaagatcaa gcgcacgtac tctgtcctac aatcttgttt 1620
 cctcagcaga ttcttcgcat acgcaaaca gcacaattat aataatatta tcgtcgatct 1680
 cgatcttctg tttctcaac gcctcgatac cttaccgctt cgattgtgat atggaccaat 1740
 ctctgacgtc gtgagcacc agtgagcaca cagtggcgcg aacgggctaa gccttaacaa 1800
 gtcactgagc tctgaaacaa cccaaccaca acatcttact aagtcctctc aagaatgagg 1860
 tttcacctca tcgattctca gtctcggtcg ttgagattcc cgttccgaga atttcgatcg 1920
 gcggctaaag aatgggtcgc cggtcggtcc caattccggg gcccaattcc caatacaatc 1980
 gctgggtcgg agatgaaaat tgtgggaatg ggataatgat gtggattgtg gaattggtgc 2040
 caggtgtccg cgatgatctt acctgacctg attctgaatg ccttgacatc gcttcacctt 2100
 actcggtcga caagtgcgcg tacatatccc ctgtcgatct cagtgttgga tcatcattca 2160
 gcactaggca gtgagcactc gaggagaact cctctcttga cttcgatacg aagatagtca 2220
 agtgatgagt cttcaatata tatgaaggat ctactccgta ggtgtgtggg ttacctaata 2280
 atttcaagga cgtcagtgtt cttgccctat aggaaatgag gattaggata tatctcgggc 2340
 cctcttcggg atctgggcgg ccggaatgga atatgctttg ggttagaatc gtgtatctta 2400
 tattgaggcc tccatctgca tctccatttt cacctaactc tctatctatt ctgcattctt 2460

tccgagccgt gcatactag cgcttaaacy ggctcaatgt cggatgcgat gtagagtacc 2520
 atattccgac ctcaagtata agtggcggag atgcggtcag gcggccgtca tcttcttcag 2580
 attctccatg taaatttctg actttcgggtg atatccatct gtgaaatcct tcagataata 2640
 agttcggagt actacagtgg aagaaaactt caaaccggtt cagtaatgag gttcactggc 2700
 catttgatat atcggctgct ccgtacgctg gtccactttg atgcagcggc agccgtccgt 2760
 acatatccac catccatcta cggagtaccc accgtccatc ttacagagaa tgtcttacag 2820
 agaatgggcc tgagtcgagc tctcgggcac ggattctgcc taaattccag ctcttgata 2880
 tccctatata taatgcgtgt gctgcatcga tcagcaatcg ggccgatcac gtgccacgtg 2940
 attgacaggt cacaagtcga gcttgaagat gatccacgc ctgacaggaa caggttccaa 3000
 gttgccttaa gtttgcctcg acaaggaaca tcgcatcgag tcattgactg cgcggttcgc 3060
 gtagcaattc cggaaccggt taggtactac gaatgtagca ttattaagat gaaagaaaaa 3120
 actacgactg tgtgatgtca tggccactcg cttagttaaa tgagccccac cagaccgag 3180
 ttgggattgg ccgctcttgg cgcagtgcc gggacacctg cccgtttccg gagagtgcac 3240
 tgcgacggtt tcaagattgg ggacaaagac tggcgtgaaa gtgaaggatc cgtgggtagg 3300
 attatgaggg actactacta agagtggcc aagattcttg ttcggacgtc gaaccaacct 3360
 aggacgcgga ctgagcgcgg tcattggatg cgggtgaac cccaggaaac ccagagacca 3420
 gggcgctcag cagcaggggc agccaggaca ggactcgacc gtccaggctt tgtccacggt 3480
 catgtgcagc gccatgtgcg ccacagtgcc gctgagggtg catgcgaaag ggtagggtta 3540
 atagacggta cagcgattag taatcggcgc cccaccggaa gcactcatcg agtcagcctc 3600
 agggccccag cagctccgc cgaagcgggt aaccctcggc taacctactt gatggcctga 3660
 tctggtgcac acttgcccc cgaaccgggc tcaacatccg acaaacagcc ggggacgtag 3720
 acgggtcacg gcgggggata agatttcagg cgcgcgcca tcgcggatta ggcggttcgt 3780
 tttttcccca ttaaaatcac tgattgggac agagaatacg tagaaaagcg aaataaatgc 3840
 gaaataaatg caactaaaag caatccaacc acacgtaagt gcctgacagg ttatggggct 3900
 ctccggggct ctccattgtt gtactgctaa gtctccgtcg ggaagagccg gcgttgtaac 3960
 actgccatac ggggtattct gtacagaggc gtcgtcggac tgcgagcgcg aaccgatcc 4020
 ttctcggggg caacactgtc cagcgtgacg gcattgatcg gcggcgcaa gacgcctctc 4080

tggccgtagt gggtgcccgc aagcagcacg aaggattgta gcgacaagta agtgggtggac 4140
 gttgacgcag gtcaagagac ttggctgttg agacgcaacc gctgaggaaa aagtgtgcga 4200
 tgcttatgtg gagagcacgg ggggatgata cgggggaacg gatctgattc gcttggccgt 4260
 cgtcagcggc gccggcaacg gaaatgtcgt cgacgggtgcg tgtgtgtgcg tgtgagccag 4320
 aggacgacgg agcagtgtcg gggtagcgag tagagtagca atgggtggctt cgggggagtt 4380
 gccactagcg acgcctcttg gcgctagacc atgggtgggtt agccaagtcg ccagagttgc 4440
 ccttgccggc tgtggggccc gacactgtct ttactcgcgg gggcagctaa gattggct 4498

<210> 1893
 <211> 1489
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1893
 ccgtgacact ctctctcatg atccgcgtac cagagctctg gatttgggat ctttgcattg 60
 ctgccttaca agtatattct cagaagcggg gcccaaagtt ttaatccaac agttaatatg 120
 gatattcttc tacctccata tcagcagagc agcagagctt caaagtttga agataatttt 180
 agacctgctc gtccaataaa ccattaatac cattaataat aaccaaccat tcggcagctt 240
 cagactcgga ggctgtgaca gtgacactag ctgtcgcttt atgctttaac ttccctcaat 300
 gcggaaatcc ttgctagtgg tccgcccctc ttttttcgct gctttttgct tgattccgctc 360
 gccttccctc tgacatctct tcttctccat attttcagac tccattcctt ttgagtctgt 420
 gtttctattg ttccttcaga ccaactctat ctgagttaca tctgtagcgc gacccctttt 480
 tttttgtggt gtgggttgtg gctttaaaga gctttgtccg tcaactccta attacggagt 540
 agctgaatcc gaatcagatt cggattcgca agcttttctt ccagcttgac gacttaccct 600
 tgtatctggt tccagagcgg atacatctat cagaacttga attctgtgac tcgaactgat 660
 tgacgttcgc tttgtttctg ctaagtcacc aactgggtac gtcaaacaat tctgcggcga 720
 gctgatcgca gaatttgctc cgaggagtct tcttgaagaa atctccccgc tgcaatcacg 780
 gagcgcaagc gctcctattt gccctactca gtcaagttgg cgggccttcg ctactcccag 840
 tcatccttct tgcaccctct cctgggcccc aagttcaggg tcttctgcgg gggagacacc 900
 aggccccctt aactaggctg tcataaacac atcgaatctg gcacacggtc gcccatcggt 960

aatgccaggc ccttgcgagg ggtctggcta atggatggag gagcaacggt tctcgggact 1020
 agttaaccca tctcgttat tgtgattgga cacgacacgc cgatactcga gacatctcgg 1080
 tgacattgac cgtttgaaat catactgtgc aggtcagaa gcggccttcc cgactacata 1140
 ccagtttact ccactagcga attgcacgaa aatgtccgag tccgcaaagt cggagaagtt 1200
 catggatctc accaggttca gcacaccggt gcctgaactg gatgaccatc ggttccaatt 1260
 agataatcaa catcgcatgg aagcgacact ggatgtgact ttgagccgtc aaaatactgc 1320
 gcagcaaggg atagcagaag taccacagcg ccccgaccta cttcaagtcc aggatgccta 1380
 cagagattct ggaccgtttt tgcgggactt cgaacacgct attctggacg atgatcggtc 1440
 ggcgaaagac gtgaatgctg tgggacgccg agtatctgtc gatccact 1489

<210> 1894
 <211> 2028
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1894

aaagatttct aatagaagct cgagttcaaa ctgccagtc ccaagcctga gccggccatt 60
 ttggaagaaa agaaatagaa actctgtacc cgtaactctc tgttttgcta gtctgtatg 120
 tacataccac cgtgtctacg ttagatggaa ctatcgggtt ttcaatgctt gctattactg 180
 ccataaactg tacagaagcc gtaagcaatg ccctgaattg atataatttt gcgtaggccg 240
 tagaacaatt gatttcatgg tattaaaatt aatcaagaag tccagtgtca aaatctcttg 300
 gcatgcgcaa aaccgaaaaa gcctccaat tccgcaaact ttcaaccacc gtcacgaatt 360
 gctaacacca ccaacgttcc tgaagaccgg gacaatatcc ctggacaaga caggaaagca 420
 atatttggca aaatgcccaa acgcaaactc tccgacctga ccgacacgaa cgacacggcg 480
 caaccgcaga aaccaaagtt atctgaaaag gaataccaac acctgaaact tcaaacggcc 540
 cggctaaagc agaagtttga gttcgggggt acgtcgctat cgcgcgact caagaccgct 600
 cggggctttg aaaggcagaa gctcgggagg aggcagaaag tcgcaaaggg aggaccagga 660
 acggagatcg cagttgcgca tgcgaaaaag gcgaagtcca aaccaaagtc gaatgttagt 720
 cctgaggaga ctctcaggag gatcgaaggg gagattcagg tcttgaaggt tggttcaacc 780
 ttttccttcc cagtgtatct cgttgatttc ggaatgagct cgtttgactg acttcggtgc 840

agagcctcga cccaactacg actgcggaaa aatatctctt caagcagcta gccaaaacga 900
 aacggattgc cgagtcacct gttttctacc gtttcaaaca atctaaagaa aagaagatca 960
 agcttgaggg accaaagagt acggaggaag cgaatgttac agcgagactt ttttaagtcga 1020
 atcccgtagc gaatgtcttg ccgggtatta tggagggatt aaggggattg tttggattgg 1080
 aaggagccgg ggcgaagggg aaaaaggacg agagggacgg tgggaagagg aaggctggag 1140
 aacaggctgg gggtagaaag gatgtttccg gggatgagtc cgtgtctggg tctgaagatg 1200
 aggatgaggg cgatgcgcga gacgcggagg tctggagcgg gatatagaca tgaaggatgc 1260
 agagagtggg gacgacgaag aggactactc gcacttcgac gcacgactag cctcagactc 1320
 ggaagactcc aacgacgacc tcttaagtga agacaacgat aataccggat caagacatgc 1380
 tcgccgtcc tccatgtcca tctcgtctc cccatcacgc tcgccctccc catcgcaatc 1440
 gccaccacca aagaaacca agtctacatc cgcttccaag acccccgcga caagcacaac 1500
 cttctcccg tccctcatga tgggtgggta ctgggtctgg tctgagtcgg agcctgagga 1560
 gctcgaagaa gccccgaagc ggaaaaaccg gatggggccag caggcgcgctc gggcactctg 1620
 ggagaagaag tacggtgctg cggcgaacca tataaaggcg gagcagcaga aggggcagaa 1680
 aggtaaagga aaagggggca gagatgccgg gtgggatttg agaaagggtg ctacgggcga 1740
 tggggatagg gatcgagatc gtggaaggaa gaagtccggg actgggtcga atgctatggc 1800
 tatgagtggg aaggataggt ttgggagtgg tactagcacc gctaaagaga gaacgactca 1860
 ggggtcgaag agcaagaaga caaagccgca ggatgataag ccattgcac cttcttggga 1920
 ggcggcgagg aaggcgaagg agcagaaggc gacggcatcg tttcagggca agaaggttgt 1980
 tttcgattga taggcatgta tatatatcta taatgagatt ctacgtga 2028

<210> 1895
 <211> 2408
 <212> DNA
 <213> Aspergillus nidulans

<400> 1895

cattaacttg tggggcacgg catgcgaact ggagattcgt ctccacttac aagaaggaca 60
 gactggttac ggcacagaac ccgccaaagc tctggccgat gatgctccat tttcgcttct 120
 cttctgggta gtccgttgct agacagcgac ggatagcttc gcagtctttc acaatgctat 180

cagccccgaa ctgtttgaga tactcggcct gtttaatggc attgccctgc agagccaggg 240
tccttgctgg gacggttgaa ctttaaccag ttccacgctg gtcgaggaac aatacctgtt 300
caaggtcttc aatcaggaga ccagtctctt atacataatt ctcggttgaa taaaggacaa 360
taacagcata cctggtatcc tttgtccagt gctgtcccga cccagccgta ctctgcggg 420
ggacgacaac ccattcctgg accaccctgc aggtagacaa gccaggggag aggtgactgc 480
ttgtcatctt taccagagtc aagtggtttt gccgaacgac ggacgctgcg agcgaagagt 540
cgaagagtcc catctcccg tgggtgttag ttgaggggaa cctcgaagaa cagctctgcg 600
acaagcagct ttcctgggcg aacgttagca aatgcgggcg atagagcaac tggattatcc 660
agtgcgtctt tgaagcgaac ctgagatgtt gtgtaatttt cggtcgatta gtttggcagc 720
catgatgttg ttgtctctgg aagtctgcag ttgggtgtgtt gttaccccaa ctttagccag 780
ttcgacagtt tcaggcacc gccaaacgga tcgtttctca gacttccacc atacaacttc 840
ctgcaccac agccatgtca acaatgaacg tggacatcga ggccaccgca aaggagcatg 900
gtcaactcca ccaagatctc tgggagtttt tgaacacaga gcagtcaaca gtactgcctg 960
atgcttcaag cctggctcga gcaagatcgt ctctcaggca atcgcttgat gacaagggga 1020
tcggatacga ttctacaagg cgacacatcc tggacgacct tgtccccgca ttcaatctga 1080
gcagcattag cccgctttac tatgggttcg ttactggcgg tgtcacgcct gctgcgctat 1140
ttgcggaagg gatcgtctct gcatacgatc agaacgttca agtccatctt acagagcaca 1200
ccatagcgac agacgttgag tacgcgacgt tggggcttct cgtcgatctt ctctgcctag 1260
accatgattg gcacaatggc acttttacga ctggcgcgac agcaagcaat atcttagggg 1320
tggcttgagg acgggaatat gttgtacgcc aggcactgcg gaaacgggga ccagcaaata 1380
cacagggcgt aggagaaatt ggactctttg aagctatgca cgcggctggg ctctcgggga 1440
tacaagtget ttccacaatg ccgcactcgt cgctagtaaa ggcggcaggt gtctgggta 1500
tcggccgtgc caacgtccag aacgtttctg atgataacca tcctcttcga ttcgatctgg 1560
ataaggtaaa agctaagcta ggcgacatgt caaaggccac tattatcgct gtatcctgcg 1620
gcgaggtcaa caccgggtat ttgccacgg gtgggctgga tgagatgcaa aagctgcgca 1680
agctatgcga tgagtacggt gcctggctac atgtggatgg agcgttcggg atctttggtc 1740
gtgttcttcc agaaaccccg gaattcactg ccattaaaca aggatgtgaa gggatggagt 1800

tggcagactc catagcagga gacggccaca aaatgctcaa cgtaccctac gactgcggat 1860
 tcttccttac tgggcaccga gatgaagccg tgaatgtgtt ccaaaatgcc aacgcagctt 1920
 atctaaccgg aggcactagc gatgctccat cgataccatc acctttgaac atcggaacttg 1980
 aaaactcacg acgattccgc gccctacctg tttacgcttc cctgcttgca tacggaagca 2040
 ggggatacca aactattatc gaggagcaaa tccggctagc taggaagatc gccgcattggc 2100
 tgtacgacca cccgaagtac aatgtgctac cggaagtaaa tagcaagcac gaattgctgg 2160
 ataagacata tatgggttgt ctgttttagtg ccaaagacga taatctgaac tgccagcttg 2220
 cggcaaagat tgatgagact cggaagatat atgtctctgg cacctcctgg cagcagagac 2280
 cggcttgccg gattgccatt tcgaactgga gggttcaggc tgatagagac ttctctattg 2340
 ttaaaggggt attggatgag gtggataaaa atggggcttg atatctgcta tatccagtcg 2400
 cagtacag 2408

<210> 1896
 <211> 4088
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1896

aaagtagaaa tctctctaaa ggttctctat gtataacatt catgcagaga agcacgattc 60
 gccagaaaca agttaaccgt cttcacgagc gctatgcact gggggaccag gagtcacaag 120
 accgccgcga cctggctgga cgcccctatc aggacgaacc ggatgaatca acatatcaag 180
 gacgtctggt ggtaggacca attcataccc ttctcgccat tgtagcatat tcacgtcgcg 240
 catatattgt acctccatgt gtcagctcgt attcatttct tgatcccgat aacagccaaa 300
 ttcctagggc tctggccata atcaaaaaca ggctcaaccc agcattcttt gacgcaatcc 360
 tgttcacgga ggaattgcca tcggctcgaca gcaataatag ctteggcaac tgcagcgag 420
 aacgacatta atgtccaagt cacgctgagc cgtttcttcg taggccaata ttcgggtggcg 480
 tagcggcca gctcttcacg ggtaattgtg accatatttt ctttgatctt ctggccgtag 540
 accggatcac ggctcagctt cacaacggcc gcacggacat atgcttgaaa cgaggtgaag 600
 gctgccttgc gcaaggatcc aacaataaga gggttcccca cgtcctccag cttctcgggt 660
 tcggtactat aaagatcttt gggtagcgat ggttttggca ctactccccg gtccactagt 720

actcgctgga gcagtgtacg gtagtaatga cgggtgaaga aatcttctgc gtcggcggtg 780
 cccagttgt acggagcttg gacggccatt gatctggcgg tgatgttcag cttcacaccg 840
 gtcccaccat cgtgcttaaa ttcttccaag cgtcttgaca ttgggaagcc gtgagggtcg 900
 tatgcggtag cgtctttcga caaacgagga tgcattgtcc gcaaacaggg gagcttgtac 960
 gtagcagggc cgagccgctc ggtcatcagg ttatagcaac acccaatcat ggcaattgcc 1020
 ttgaccgacg gattcagaac caacgcgcga acaccatggg gaacaagatt tccacatgaa 1080
 tgcagcgaca ccaccatgac gttcacatct gaggcctgct cagtattctc tacgtcgtcg 1140
 gtgggttccg ctgatttctg gctgctcggg gcgacaacat ctttgatgat cggctccagg 1200
 taaccgtcct tgatttcatg ctcaatatag ttcacgcgc ctcgtggagc gtctgtattt 1260
 gtattcgtta ctggcttctg aacagtcccg ccggctttag gaaagggtcc gagctcgtcg 1320
 gaggtcacgc tgatgtcgcg gaatatgcta atctccgcaa cgcctcatc gtcgttccca 1380
 gtgtcttgtt cgtccacgtc gtcgctcgtc cgctccggtt gcgagtctag cttttccact 1440
 ggcattgtctg gatcttcgca ggtcttgcatt ttatccagct tcttattgta taagcgcacc 1500
 ttctttctct cagctagctt cgcatagacg tccatcctgt tggccccatt gataaactgg 1560
 tgctccggtt caatcgcaac gatgttcctg ttatacggag gactggccaa tgtccgcca 1620
 agataattct gccagatcc aaaatccaca atgtgcgtaa tctcctcgcc ccgctccga 1680
 tgcacggtat cacatagtga gttgacatat ttcagaaaat gagcaacctc gtgatatttc 1740
 ttgaacttca ttccgaccgc aatccgcggc ggtatggctg ccttcccaga gccgtgcggc 1800
 gtgaactccc tgcgcaacgt aagtcgacgg atttgctgaa tgaactctat cagagacagc 1860
 ggaggggagaa ccgcaactcc tctccactcc tgcctgcaa gatccccctg cttgtaggcc 1920
 gctagcatcg gttggatata gtcccgcagg agcagggtcg tgatgtccgc aatattgtgg 1980
 tgctcaaaga actgtctcca atcttcgggt agaagtgtag tatagaggtc aggctcgcgc 2040
 gtaagaaaat ccagcatatg tacgcccccg cagagggtgcc taaataggtc ggatgaggta 2100
 gcaaatgaca gcaaagcttc gacgtaggcg tctggatccg tccagccctc agggagggga 2160
 agactcctcg tggctgacat tagtccttct ttttttttct ctttttcgtt tttgtagcgg 2220
 acaggactgc agaggggtaa cggttcggag ggcgaagcgc gacttgatgc gaacgggacg 2280
 acggtgggga acgggggttt ctagaaaagc acgaccaata acatttggag catagagcgg 2340

cctgaagtgt ccaaaaattc gagagacagt gttgttagtg taaagtgaca gtaagtctta 2400
gactctccaa agatTTTTGG cgacaaaact tttgcgctgg cgggtgggta gaaatgcagt 2460
ggaatgcggt ggggtggatc tgacgagagt ctggggagac tgcggagtct ttaccctctc 2520
cctcccttcc tagattccca agcagctcga atgaccgcgt tgcgccagac aatccgagaa 2580
ggttatgtca attatgcata attacagaac cgcccgggca tgaactgacg gtcgagagat 2640
cgacgctacc ttcaggagct tctattcagt ccaccgggtc ctggcggtgt gcccgctgcc 2700
atgacaccat cacaacagcc actagtaagc tagcactatt ggcgcagcgg agaactagt 2760
gtccaggaca gttgctgacg ttatctatag tccgctcaca ggtttcatat ccttttccct 2820
gatggctatc gcggcagtgg cttcgtttct gtgtgacctg ggcgcctggg cggcagcctg 2880
acatccttga tcaaggatat gtcagggcac gtccccgggt gttgcagggg ggagaagaga 2940
cggtagggat aagaccactc cacgtatgaa atttaatccg gcggcaatct cccctcgttg 3000
gcccttgggc ctggcgctct gcaaactccg ctcttggtg caccggctct cgtcgcaggg 3060
ggcaggcgat tcgatcatacc gttgcacatg atacctctc ctatcctacg ctagctcttg 3120
cgggaatttc tatatattga gacattgctt ttaaggacag gagacaggaa ggcttcgagg 3180
gatcattcaa tggaccttct tactctttac cccagaacg ccatgcaagt cggatgaggt 3240
cggaaacatg gtaagaccaa gaccgcgaag aaaatagcac gcgacactaa tccagtctac 3300
ttcttagagt tcaactcgcc ctcaaacagc tccaccattc ggatttatcg ccgatatact 3360
cttccaaatc atcgtcaatg gtgaagtcaa cactgtgttg accctctgcc ttctcaacag 3420
ggccacgtat gatacatca aggtcttgga accgtacatc tgcaagtgtt ttatgcgcct 3480
ccatggcatt gatgccttca gtccaatatt cccctcgac tcagggatgg gtcagcaaag 3540
cgcgctgacc gtgcatgccc ttgtgagatc cttgtatcgc catgagctcg caccgcgctt 3600
gtcccgtcac atcgtccccg ccgtatgggg gccgttctac gacgatgaca aggtggatat 3660
gaatttcgag gccgaacgca agctctctag acgttttagaa cggggcctcc acgtgctctt 3720
tcacatggcc gacatcgcac gcgacatcaa acgagaaccc caggaaactc agaaaccctc 3780
gtcctcttca tcgtttgtct caaaacgctt cactgtctc acaaagctcc tcgaagatta 3840
cgatgacttt gaccctgact ttaacttcgc ctttccgctt aacaaggcca ggaccaataa 3900
caaacacaaa aagaacaaa acctctgat cccccatcc tcatccactc catcatcgtc 3960

actggacatc aaccacatcc acacaaaaca tcacctcaca gctatcctta aatggggcca 4020
 cgccgagttc gaaatcggca agcgccgcct agagttccgc tccaattacc ttaccgacac 4080
 cctcgagg 4088

<210> 1897
 <211> 3439
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1897

gtcccagttg tcaaaattcg tcttcttgat caccggcg atgccaatg cgtacgacgc 60
 ggagaagacc acgttcgtcc ccatccaggc gtaaccagcg ttgagagccg acagggtcgc 120
 cactgccgag tcagagctgg cttttcgcgt tgcggcggtt gcgatctgga tgtcggccca 180
 ggctgccacc acggagctga gcaccatcaa gccgaaagac agcagggcaa gaggcttcac 240
 gctgcctccg accatgaaga cttcgccgta cgcgatgacg atgattgtca ggttcttgaa 300
 gatcgtataa acgggaacag acaggaattg cagcgctttg ttgccgtat aaatcattcc 360
 gaccagcagt aaggagatcg gcaaccctgc gattgaaaag gtcagcgttt gcataccgct 420
 gggccttggg tggaagtctc ctacacgtct gagccttctt caagtcaaag aggccgaggt 480
 tctggataag gccagccttc ttgcaaacca ttatcgctac agtgccaatg aaggactcgt 540
 caagttaacg tccatcttgc ttttatggcg taaagaaata gtagaagtca tagaaataat 600
 aaatttttaa atttattatt gttgttttta ccaaacaag acaagcaaca cacctggata 660
 gcgagataaa gaaagctcag gttccagctg gcgccggaaa cgacgtactt gttcaccagg 720
 gtcattgctga tggaggagag gcagtacgcg agcactgcag cggcggcatt attgcttatt 780
 tttgacgca agctcgtcac ggatccagaa ttctcgacat cacgctgtga ctgaagctcg 840
 taggtaggaa gcaactcgtc cttgctaatt cgttttcgcg tgctcgccat tacgctcagg 900
 gggagaaaca agatggggag agttgccagc cgtgcgagg cacgtcactg taaaaagagg 960
 aaaacgaggt agcgagggaa gaggcgata gatgcgttgc ttagggtaag aaaaggcaga 1020
 aagagatgca aaaagtgcaa aaaaaatcaa ttgaatctga caggataatt tcacaattca 1080
 cccccagtga tggatggagg tcagctgacc tgcagccctt gcagagtoga ctaaaccaga 1140
 ttagggattt agatacatc gttcgaagta gaattcttat actaatttca tgcattcagca 1200

tggaagagaa cctcctttaa aatctcttgc cccgtgcatt gccacatttc tcttttgaca 2880
 aaattgccct cgacgccggg attcagtgc taccagca ttatggtcac attttcggac 2940
 tgagtcgaga agacgggttg atgcggaacg ctgacgtca caccacagtt gcttcgcgtt 3000
 agggagagga agggccctgt tcttggttc tctgagtaa gcctctcgta gatgttgga 3060
 aaaccagggc ctgtgaatgt tgtgtgaag gtttcgacgg tcgactctgg aatacagggc 3120
 aaaaagttca taggggttgc gaatttgag gacttctggg ccagtttctc ccagagcttc 3180
 cagtcgccat ccagcacctc tccaggttg gaagtgaac cttcaggcgg cgtgggtatct 3240
 gacccatgg cagccctga agtagtgaa ccaagagta caataaggat atcttgcgga 3300
 tcaagcgtga tgagttcttg atttcgggt tctgtcataa cctcaatttc agaaatcgtg 3360
 gtgggtccgc cttcaggata ggccttaaga tctgatactt gctggtgaaa gcgaaagtca 3420
 acaccttggt gcttgagaa 3439

<210> 1898
 <211> 2848
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1898

gacaaaggca actttgtttt gagcagagac tcgctgaact gttagatcct gaggttttcc 60
 cagttgttcg agccattccg tctcagtgc gccacaaca tagcttcgga agtcaaagtg 120
 acttcttcgt gtcgccagaa tgtgacacaa cgagtcagtc accgtactct cacttttatg 180
 tgacagggag tttctcatga agtacgatgc ataagagtct gcgacacggc gaatgccggc 240
 ccggtcatgt gctgagagca caaggaggcg tagcctttcg ttccatcag catcctcgga 300
 ccggtatgtc gccagagact gacgaggatc tgtaatatcg aggccaggca tgtggtgcat 360
 ttgcaagaag ctcttagcat cctcgagtat agcatgagcg ttggcaccac caaagccaaa 420
 cgaattcaca ctggcgcggc ggactctgtc ctgcggccat gccatattct cttgcgggag 480
 tgcaatattc cattccgtca atcgaagctc gggattgacc gtcgtcagac cagtgcggc 540
 ggggatagtc cccgcttcaa gacataggac taccttgata acccctgcca gcccggcagc 600
 gccctctgtg tggccgacat taggcttaac actacctaca taaagtggc cgacatcgct 660
 atctctcggg gcagaggcta cggctctgcg gattgctcgc atctcgattg ggtcctgaag 720

atgtgtgggt tagactaaag ttttcggaaa agggacaggg gcatcatgga cgtactcctt 780
 gtgggtgtccc tgttccatgc gcctcaaaat aagcgggtctc ggacaacggc aaccagcct 840
 tctggtatgt ctgcgaatc aggaatgcat gagcatcttg gcttggtttt gtaatgctgg 900
 gcgttctgcc atcatggttg gcggcagtgc cgcggattac ggctcgaatg caatctctgt 960
 ctctcatggc atctgccaaa cgttttatca ctacacaggc aatcccttcg cctcggccgt 1020
 atccattcgc cgatgcatca aacgagcgc tgatgccgtc ggggccaatc atgccattg 1080
 ctgagtactg cgccatgaag ttagggtgca agatgaggtt cgtgccagtg atcaacgcct 1140
 gcatatccat gttagattta acgaatcctg caaatcttga tggatgaagga ggagacctga 1200
 gtgcattcgc cagactttat ggctggcag gctagatgaa gaccgtatag tccggatgaa 1260
 caggcagtgt ccagagttaa gctggggccg gtgagatcga agaaccaaga gatacggttc 1320
 gaaatgatgg ctttgtttgt gccggttgca gcatgggcgc ctagttggta gatatcatgc 1380
 tcgggatct cttggtagtc ggccgtcatg acgccgtgt aactgccgt cctgcttctc 1440
 gctagctttt ccattggaat gccagctaaa tggctcagc ggtgccttg catacatcag 1500
 attctggtaa aaggggtggg ccgaagtacc attttcaaag ctttcatacg ctacttccaa 1560
 aacgagacgc tgcattgggt ccattacttc cgcctcgcgc gcagtgatgg agaagaaagg 1620
 cgcgtcaaaa tgggggacat cgtcgaggaa gaagcctgag gtcgtgcagg tctgggatac 1680
 cgacattcag cattggctaa tctgtattag aggtgctctt gcttactgcg cccagtcgtt 1740
 gccttgatgg atggaaccag gcgtctgcat cccaactccg cttagggatg cgcgagtgc 1800
 cagtgcgcc ctgctggatc atctgccaga actcgtctgt ggatgaggcg ccggcaaagc 1860
 ggcaggccat gcctactatt gcaataggct cgttgctcgt catgttgctt ggtgaaaagg 1920
 tcgtgcggtc aggaaatgac ggagatacta gaaaaaacac aaaacatgca acttatgtat 1980
 aagctcaaca ccgagttatt cgcagagtca ttgatctaga gtgtccacgt gcatttggat 2040
 ctccatccgg ggagcgaagt ggagccatac attctgagat gtaacgttct gcaggcttta 2100
 tctatgttcg ctgcccggtc tcaatctata ggagttctag ctaatttact tgctccgctg 2160
 ccatctcatc gttgtccgga aggggactat caacgcgttt tccatgtccc agacaccttc 2220
 ctttatatat acgtcagacg acagcgtttg cttcagggat tccatgtctt cttcgtttac 2280
 taccatagct gacccttga acggacgttg aatcccctca ctaacatgct tctcaaatag 2340

tgggcctgaa atttcccttt atttagcatt tcctgtgtgg caaggaacaa tagcaatcat 2400
 atacacttac cgcccatga aacgtagcct tgttgatgaa gccgcacgaa gttgggggaa 2460
 tgcctagggc gaatggccag gcggcgctcg agctgttgca gctctgttaa agcatgcctc 2520
 ggatgcacac agatggggaa tagttaccac gttgggtagg tctggaataa ccaccagaag 2580
 ttcctttgta ctgttctttg ggcgaaacgag gggctctgtt gtaggcctg tagccagccc 2640
 atgcatccac tttttgccaa taaaggggag aagcatagag caggccatga ttgttttgtt 2700
 catgatgcc cattgaagtt gcaatgcct ttagcgacat tttataggta acttcaaagt 2760
 atcatatctg gcccttatca cgggtccggc gttacgctga ccgaaggacc agtcggaatg 2820
 tacaagcttt gggcgacaat ttccggcg 2848

<210> 1899
 <211> 3776
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1899

gcattgtgtt tttactccca acggattagt ccggatttta agatcgcggt acatgcattt 60
 ttcaaacaca ttaaggataa ggggaccag catattttat caacggtttc gctcaagtca 120
 gacatataag ttggcgggtt cattggcgat catgtcttta tactggcgtc ctatgatttg 180
 aagaagtctg attgatcggc aaaccgcaaa tttcagatag tccgaagtga gagaattcaa 240
 tgggcctttt tttaggaaaa gaggtcactg aacccttgt tcgaaatgta tgtgaggaac 300
 caggcaacgg ctctacttga agagacggag cagcgacgag acgtgctgtc ggcgagctag 360
 tctttataaa ggttttccac tatgaagtga ctggcatctg gctggagctc tttgtatctt 420
 cactttgggg gtcctttcca atactggcct gcgatgtcca gtcgtccggg tgtccgtatg 480
 tatgggtaga gtggctggct gtaaggtaaa aggtaagaca agtgtgaaag caagcataaa 540
 aacctactgc ctaggctgtg gcctaacgca gcattcaggc gccttcaggc gtggtggcga 600
 ttcagggact ggcaatgatg ctccatagtc accattagag ctcttcggac tgaatccgtg 660
 tcgcgtctc tccaagtga aacaaggag cttaacgttt cggtgcttga tttggattgg 720
 ccacgttgag ttgagctaga tggaatggat gtcggaaata gcacacgtat atatctgtgt 780
 gtatgatgga tgggtgtatgt acatgcgcag cggtattata tggatgtgta tatgaaatga 840

acttaggtac ggtagatgaa atacatgtac agtttttggg aatgctcgag gtaagttgca 900
 aggcaaacag aaaaaaagag ggaaatagga aaaacggata gaccgggtt tggtaaccat 960
 gcctaacgcc aatttccgaa agtacggggt aacaagcaga gagaagacaa gttgaagaac 1020
 tgtgatgagc aacaatagga aattgtgcaa aggagaatga aagaacagtc cggtttcaga 1080
 gcatgacatg gataaagatc agggcgagga cggaagggtga ccacaagtac tccaggcaat 1140
 gcgttcgtaa ggatgctatt cagaggcagg aaatggggcg tgaagatttg gaggagagaa 1200
 gtaggcgaca cgctttccga cgaaccaagc gagagaaaat ccaaactcgc taaataagat 1260
 aacaacacaa cggtaggaac attgctttgc ttgcgttctt tcggatatga ataatgatga 1320
 attcagatca agatcggtag gagagagtcg tgagatacga taaatgaaat aggttggtga 1380
 tgttagaaac taaaaagccc gctgcgcttc ttcccaagcg gataaaccac caaagcagca 1440
 agaaacagtc ccacagtaaa cccaatagca acctgtacca tcccgtatcc aatgtcgaag 1500
 acgacaccct ggaaaggatt ctcttggtag ctctgctggc ggtgctcagc ggtcatgttt 1560
 ttccgcccgt cgacgaagct ctgcgtgccg ttactgggca ccgagaacgg cgtctgctgc 1620
 gtggtaattt ggccctgccga tgcaattccc gctaccaatg acccactggc tgcgaggcca 1680
 gatgggacaa gcacaaagat ggcaggagc atggctgctg ctgctaggcc gtgccgaaga 1740
 cgcgaaataga ggtttgccat gacccaaca acgaatgctc ccaggcgga agagacctgc 1800
 gtggaagagt agaagcggtt cgcgccaaag tagttggtaa tgtatccggc aaaagcgata 1860
 acgagcatca cggggatctg cttccatttg gcctgggtga ctgtggcgag gcagaaagtg 1920
 aagatgatga caaagggaaa gcgctggagg tactcgttcg tgatagggtt ggcagggcatt 1980
 gtatagtctg ttgaggcgtg gcggtctaaa aggccgtaca cgcagtgccg attgtgatgc 2040
 caaagccgag aaagagggaa tagatgatgg cgtacaccat gcgaacggag ccggcgacga 2100
 tgctgcgtga ttgaagctct aggctggcgc agagaacgag gtagccgggg agaattgagag 2160
 cgatggagga ttggggcagg gctgcaaagc agaagagatg gccgcctttg taggggatac 2220
 tgccaaatgc gcgagcgagg aaggaagtga gaacggcggc ggatatttca aacacgttgg 2280
 agtagaggtg ggagcgaggg gagaggacga gctgtagaat tcctaggagg cacccaagga 2340
 cgaaggcgat gggcatatcg atgggacgag caccaaaggc aaaagggccca acagatgcgc 2400
 tggcgaggcc gtggaagaga ataagaagcc agatggggta ttgttgtcc ttctgcaaca 2460

gcttgcttag ccgctgcatg gcctcttcca ccccgatcac gtcgtggatc acttccttat 2520
aaacggtgtg tgcatacagag agcttgccca agtcgacacc ctggttcacg cgaacaagtt 2580
tcacttctgt agtgtgggta gatgcatcat caaaggagac aatcatacag cggggcagat 2640
ataagaagtt ggcattgatc tccagcacgc gggccgtcat cttcatgtac tcctcaagtc 2700
tatgggtagg ggcaccaaac ttcatcaggg ccttgcatag tatgagcaga tacctctggc 2760
gcgcaagcag ctcggaatg tgaacagtga tgcggatttc atcttcgagc tggggcttcc 2820
ccatgcgctt ggacatcccg gggatagccc cgctactgcg ggagcgtctg agcattgaaa 2880
atggcgagct gatggaattc ttggctgtcg aaccgcgaaa ggaggtgttg gactgattgg 2940
ccgacttctc ataccacttc ctgggcttct gaggagcacg ccacgaaggg tccggggaga 3000
ggccgcgggc actcaggtca ccagagctgc tctggcgga gtggccatag cggccccggg 3060
gtagattcag ggtcggctgc tcgtaaagct tcaggagcga ggacagaatg ccgccgcggt 3120
agtgagtcgg acgctggacg taggcgtcag gatcccttct ctcgataggg gtgaccgggc 3180
cagagcgcag gccgctggga gaattagcac tgatgcggtt cagaaggtga aagtctcggc 3240
gagtcactctg ttcaacaagc tggtagctt cagagttgct gttgtgaggg cgtccatcta 3300
ctaggccgta gtagtcactg tcctcgtccg aagggtagtc gagctgtttt tcaggagacc 3360
ggatcatcgg aatgtcatca gcaccccaa atggctgtga cgcttctgta ggagacgaag 3420
caacagatga cggcagactc ggccacgggc tctgactggg agacttcgag ggacgtccca 3480
aatgggatgc caacttctgg gtcgctcct gcgctgagta ggccgagtgg atagccctgc 3540
ccttctcatt gctgacttca tcggtagcaa cgatccctga ggagctatcc ctggagtaaa 3600
cagcgtacc ggcagaaagg tcgagctagg tccccattag gaaaggggtg gggatcagat 3660
gcggttcgct catacgccg aatgctggca gtaggcagcg gtctctgcgg cagaggcgaa 3720
ccccttcgct gtgacgtggg gggcagggcg cctcgccgac ggtgaacttg acccgg 3776

<210> 1900
<211> 3562
<212> DNA
<213> *Aspergillus nidulans*

<400> 1900

tcttcaggga tgcggatatc caagcccgtt tgactcggcc cgatatccac gttctcgagt 60

cctcgatata tctcctctga aatcaaccct gtacttgccg ttgcgttatg aacagtgtcg 1740
 ataagccgat gttgaatacg agcaatttca ctgcgagcct gaaagagtat agcagtatcc 1800
 ccggccagag tatcaggccc tgccccagat attggcgctg gcaaagaacc aaatctgctt 1860
 ccggctgttg ccgttactgc cagtggtaac ccggtcagga ggctatgctg aacatccaac 1920
 cacacgatat gcgcccata tctacgctcg agtctcgctt ccaaggctga accgaagtct 1980
 atatctctat ccggtgtaac atgctcctgc cgatgtagcc caatactctg agcaaggcgg 2040
 actgtcgaac tcaccacag ccatactct agtgatccga ggtccttgct catgaacggg 2100
 tcgataatca gcgaggctgc gacagtgttc actgtcggac ggcgaagatg gtcgcaggaa 2160
 gtaaggatag ccgaaaccgc tgattctaga ttcttggttg tgactgattc ttgggaggta 2220
 tgtgtgaag ccgcagctcc tgcatacagt accgcaaaga gcacgcagtt catagtcacg 2280
 tcttcagca ggggtgttggg gataatagtc gatcgcttat ccccgccctc atggcaccat 2340
 tgccagaaca ccgcatacca ggattggaaa tctgggaggt caatgagcgg gtacaggggg 2400
 tagacggagg taatgaaagt ctgcacaaag ccgtcgcagt cgtgcctgtc aggaatcctc 2460
 tcgaagacgg atgcgatggc caggaagttg atatgaggtg gaagagggtc tacagttgct 2520
 ttcttgcgaa atggcatcta ggagtgttag ggctgttagg gctgttgctt cgacatggct 2580
 ggctgataca gtggcactcg acataccaag ccaaggagcg agtcgttgac cggcctgact 2640
 ctagagggca atctagaaac aacgtctaac cgagagacat tagagcggtc tgtatggatt 2700
 tgatcgtgtc tactctgatt atcagaaact ttgctggtag tttgatattc gcacacttta 2760
 ttcacccgtc tgcagttggc gcattccggc cgttctcttc cacatcgaac tttacgagtg 2820
 cgacatgtca gacagctgaa agcagggcgt gggtttttga caggtgccat actcagggtc 2880
 aggtagtgat gctagaagcg cataaagcag attattcggc ctgtcaatgg tattccggga 2940
 ggaattcgtg gtttgtggcc gagaaacagt gtcgcttaca aattatgccc tgtttaaata 3000
 tccaatttgc tgggctgata tgtcacggaa tgtcttctgt ttgccagtga cctggattat 3060
 acctggttgt gcctttgcac caggtaacg cgtgaagccc taaaaaagg tatctacaac 3120
 aacgatgggt acttagaccg atacatagcc aatctcttct ctagtgggct ttctgataaa 3180
 tccttgggct gacctgattt cctcctttt ctaacgcagc atccacggca caactcgaag 3240
 caagaggtta agaagaccta tgtatgtctg cggtaacgag gttatttcat agaataagag 3300

cgaaacacgg gcggaaaggt atgggtatga tgcgatcttt gagaggcatt tccctaacat 3360
 ggttgggaga aggtgagacg taggagagac agtcaactct atatcatagt acacttccaa 3420
 tcaacagaac agtatagttt tactctagcg gcggcgtatc tgcgcacata gtggccatta 3480
 cgctgtttcc aatcagccac tcacatcctt ttgttcaaaa ataaaaaaga gacactcacg 3540
 cagcaggata ccttgtccct ga 3562

<210> 1901
 <211> 3311
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1901

ctcccaggcc aagcacatgc ccagaaatcg agattgccgc agtgctctgg gtgtatgata 60
 gccgtcggcc aaaccagtcg tctgggttgt tgaacttctc catgaagaag tagcgcataa 120
 caggggtggaa tttttcgatt acctggcggg atgtccggac tcgttgctca aaggaccgtg 180
 tctgtacatc ggcaatatgt ttgcggcagg cgctgggctt catgtctcgg gggtagtatc 240
 tttgatgcgc aggcatacaag aagtcattga gcggtatggg attcgggaaca aattcaataa 300
 tgcccgcatt agaggtcaga ggaagaacct tgtaggctct gataccgaga ttgcgctgcc 360
 gagtcgcttg atggctcttg aggagactgc taacttgctc aaatacttgc tccataatgg 420
 cgtcctgccg caggtcatca ttgcctcctt tgaactatga tactgttagc cacggccgaa 480
 caacgcgaat atgaatctta cgagctgctt atagcgaaca ccattgcttg caatagctgt 540
 aacaattttc ggtgcgctca cgccagacgc taccgtgaaa tcagggaggt acttagcaag 600
 cttgggcaca tcaactatagt cgcagtcaac gcgaatatca attttcatag tcgggtggtg 660
 tagccgctgg ttgacagcat cctgttcaag gcgtatgccg ggtgcccaatt tattcagccg 720
 aatctttgca ccaactcttg ccttgctcgc taaccgctcg acagcgaatc gaacgtaatt 780
 tatattggta ttgtggaccg ccaccacaaa aggcccgata tgccatcgtt ttctcataat 840
 atcagccaat tttgcggcgg ctcgattgcg tgatagagcc gactgggtccc ttccaccctt 900
 ggatttgctg ctcgcaaaga tctggtacat cccatggaac gggatgatcag agcatatgcg 960
 ataaatcagt tcggataata gagcttgaa atcgtctgac acgtcgagga gccgcgaagt 1020
 cagctgggtc ataagagggg cgaacttgcg actcgggacg cctgctatgt atttcgagac 1080

tgcactgttg gcaatgtcac tgtgagattg cgcaagccag aggggggcaga agcgcaggac 1140
 gtcgttgttg tatcgttcgc tttctctaag gcagataaga tagttctcaa gacattgctg 1200
 caggaatgcc tcgcgcttcg cttgagacgc tgatactcac gatcatcgag gtcgaaccac 1260
 tgtttcgtct ttgttctgtg aaatttgaga ttgtctcgct ctttcccttc tgctgttttg 1320
 agcatcgcat caagagcaac tacttccctt tccttacgat tacgaagctg ctcaatccgc 1380
 gcaaagtctt ccagcccac cggattttgt aactgctgat cacagaagat ggcaaateca 1440
 tgatagactc gccacgcgtc ttctccctct gagcgacct tcaattcttt gactgcaggt 1500
 gtcaaatagt tctggatgat cgctccggt ttttctaaac gagcttcggc gatatgatgg 1560
 ccctgactct gttagccgct ttaacttcag tgaagatctg aatttgcca ccagggtgac 1620
 aagaagctcg gcacgactaa taggaattgc ttgcttgtga aggtcatttc tgtcttttag 1680
 ctgctggaga atttgaatcg agggcgccat ttcacctga tcccatagca cattggccag 1740
 gtcgaacttc gctacgcctt caatattgag ccctagcgat acactatggt ttgctagtgt 1800
 tgacaaataa acagcagatc ttagcgaagc ctgggcatg ccgtgatttc tggcaatgtg 1860
 tagggactgg cggattactt tcacttcaag aagctgtgca tcaatgtcac ttaagttgaa 1920
 ggcagacctg agataatctt tctgctttat ggaagagAAC agggctctcat gagagctcag 1980
 aatctctcca acctcctgga cactacatgc cgttagtata acctattatt agcaggaagc 2040
 gcacatactc agtatttttt aaccaggaag tccttgtgta gatttcctcc cacttctgat 2100
 cgatttcgc cgcagatcct gaaccaagaa cttcttctat ttcgggtcaag atgccgagcg 2160
 tcctcatagc ggtccgcaat gacgtcgctg atcgacgac actattgata agattcaagt 2220
 tgcttctata actctcgccg atagatgcac gcatgtcaac taacggccct ggagtattca 2280
 aggcttgaa agccctgaat atcgtggccg gaggagatgt gttcaacgga gagataggta 2340
 tttccattg tcgcagattt gtagcggcct taagcactact acccagtggg acagcagtgt 2400
 cactagaatt tccaagcgca ccgatcatag agttagcaat gccctgaaga ttgggtggagt 2460
 tcagtgcctt gaggacacca taggcgtttt cagatcctgt catctgaatt tcgctgtcat 2520
 actgtgcgct ctggaaaagg agattcttga agccagaact ctcggtgctg agagtttcta 2580
 ttacggaatc cagagaggaa gtctgctgga ctccatagaa aaagtcgggg tcgtcaatgt 2640
 tcttgaaaat gtcatgcagc aggcctgctg ggagatcgta tttagcaaca gatgaccgac 2700

gagagctggc cgtacagcga gaaacatgag tttccaaaa catgagcgcc gtcttcggca 2760
ggcggcatct actagcggct gaggaagcta ccgcgtagtt gatatccaac cagtcattctc 2820
gggccactat tgtttcctca cccggcttgg gttgggttgcg aaggtagagg acgcatttga 2880
tgataagccg agcgtgaggg atagagtttt ctgcaccagc ccgtaagggtt tcattgaaga 2940
tttgcgatat gctgtccctt acctcagcca ccttacctcg aatctccgcc agcagagcat 3000
catgtaggat gtagggcagt agttggactg ccaaatacagg aataaggat aatatattgc 3060
tcagtgacct aataaccggg tcctcggcgg ccgcttttga gagaaatagt cccacgtttc 3120
gtgcccagta agagggcgaa aggctaagat cccatccatg tacattttct agttctttgg 3180
cttcagagc gttcagagat atccccggac actgatacgg gtcacaggtg agagccttca 3240
tgacagaagg ggaaatagca ctacagcaag gttcaaaatc aggggaagttg gccagggttac 3300
tgatgatagc t 3311

<210> 1902
<211> 3358
<212> DNA
<213> *Aspergillus nidulans*

<400> 1902

ctgcggagaa agtccttagc gaactgaaag caatgaccga gcattcttct gtttttttga 60
cccgcttaa caaacgtgat gcgcctgatt actataacgg cgagttcgcc ttctcccttc 120
cttgtagctc atattaactc tgtttttagtc atcaaacacc caatggatct tggaacaatg 180
acaaaaagc taaaggccct ccaatacaaa tccaaacagg agtttgtgga cgacctcaat 240
ctcatctggt cgaactgctt taaatacaac acaaaccag agcacttcct ccgaaaacat 300
gccatgtaca tgaagaagga aaccgagaaa ttggtaccgc tcattcctga tatcgttatt 360
cgagatcgtg ccgaggtgga ggcggaagaa cgacggcttc agcttgctga tgacggcgga 420
gaagaaagtg acgatgagcc tatcatgtcc tcaagaggcc gaaaagcccc ggggaaatcg 480
tccaagaagg gtgctgcccc agcttcgaaa accccgagtg gttctgaacc tccagctggc 540
tccggctcac aaccgtcggc gcctgtacgc tccgactctg atgctgccgt ggaaggagta 600
cagaatggat ttgcaacacc cctcccggc acgtctaccc catccgacct cgctgggtgcg 660
ggctttgcca catctggagg acaagatgat agcatggacc ttgatggttt ggtaacgccc 720

cccaccgcac taagcgcgtt ggccacgcct ggtgtagaac ttgccgaccc tgaatataaa 780
 gtgtggaagc aagtcacgaa gaaagacaga gcacttattg ctgcagaaag acatcgtctc 840
 ttcaaaggcg ataagctgaa ttctgacgaa ccggctcttc ttgcgacgaa ggcgggtatg 900
 agaagggtggc tcaggaacca gcaccagatc tcaaccgatg gcgatagttc gaatgacctt 960
 gggccaaaac cgaatgccgc cagcgagacg ctagctgaag gtatagaagt tgaagaggac 1020
 agagtaattc atgactatta cgatgttatg tctggtatac cagatcttcc cctcatctg 1080
 ttgtggagag aagacagcga gggaaatcta gtagacaact cagaagactt tttacgggtc 1140
 cttcccaaag gactcttcac ccagccggac agcaagcttt ctcgaaagat ggatgcaa 1200
 atgaggcaaa tgcaggaaac caggaaaatt tgctcaaaga ttggtatcgt caaacaatg 1260
 caactgcagt ctcaggtagg aacatggtat tctacatag catcatgcta acttctcccc 1320
 cagatgtacc agaaccagtt ccagaagtat cagccagagc cctttgttga acaggatgtc 1380
 gaggcccatg ttatgaacga caatggctct gtgatcgccc catgggtatg caaggccgct 1440
 ctgcagcgtt cggtagcaaa gatattctac cacaccggct ttgaagaata tcagccatcg 1500
 gctatcgatg ctgcgaccga tatggcttcg gacttcttcg tcaagattgg acagacattg 1560
 aaatcgtaca tggaagcgcc gaaagtctct gtggcagatt cagtggaagc aactagctca 1620
 ccgcagtgga aacggggcgt caccgagcca gagatgatgc ttcatactct gtcctccgtc 1680
 ggcatcgaca ttgagggact agagtcttat atcaaagacg acgttgaacg tctcggaacg 1740
 aaactcgtga ctgcacatga tcgcttacgc tcgcttcttt ctgagctcct tcgccccgtc 1800
 ctgcaagatg gtgggtgaaga tggctctatg gccttcgctg acggtagtga acaatttgtc 1860
 ggtggtgatt ttgccgaaga tatcgacgaa gacttttttg gcttcaaaga gctgggcttg 1920
 gacaaagaat ttgggctagc cagccttagc gtgccattgc atcttttgca aaacaggatg 1980
 tacaacgcgg cccaggcgca aaacacaaag taagtatcc agaccgctgc ctattcttca 2040
 atactaacca agactccgac agtacctccc aatccgttac agtctttccc ccgcctcctc 2100
 cgtatccacg catcactacc gaaaatgtat catcgagat cggcttggtg caagcctttt 2160
 ttaatgccaa attacaagcg cgcaacaacg aaccactggt cgaggacctc gaattacctc 2220
 ctaagcaaag gccatcggtt ggtcgacctc gtcttcctgc ttctgggaaa atcccgcgc 2280
 cttctagtct tcttgacca acttcgagtc cacagaagcg gccactgccc ccttcagttc 2340

ctggattcaa cgcaaacaaa ccaggaagct ctgaacctaa taagaagaag gtcaagaaga 2400
 acagtggcgt ggcatggggg gttgctgacg ctcccggtga agacgaagca gcaacaggaa 2460
 ccaatggggc gaaggtcca aacctaaaat ctgagggctc ctctaacgac ctcattaacg 2520
 gcaatgccgg agctgaaaca ttagacgctc ctgggtgctga ggattctacc aacgccgacc 2580
 aggttaaggg taatgacaat gcagtgccca tcaccaacgg aactgcaggc gacggggcat 2640
 gacgtatgac catgggtatag gtatagaact ctctgttaat gatctcttcg actgggtctg 2700
 ttggacgggt atgctgcttg tttcatggaa tgcagcactt gttggttgtt tgtctagagc 2760
 aaatcggcgt cggttgttcg gcttatcctt tcactttttc ttctgtcatt ttcttctta 2820
 aattcaccca tccgcctacc ttcttcaatt ctcttcccc atgtgttact tggacccctt 2880
 ctattcttcg tcttgttata tcttctccac ctaattgtgt ttactttact ggatgccac 2940
 ctgcggtgct ccaacagggc cttccagct tgttgttcta cctgcctacc catctaccta 3000
 tacctataac atacaccgga atcacatctg gtctatatcc tatccctctt catctccac 3060
 ttgatattcc agcatttggg taggcagctt ttccttcggg tggatcttgt cagcattgaa 3120
 cgcgagttgc aaagctctaa ggtggcctta tggaagtcga aactaatata cccaccctg 3180
 gagaaaactg catgtactgg gtctacagaa cggttcaaac acctcatcat gcttacgggt 3240
 tttttccgcy ccgctaaaag gtcttctttc tgcttccttg tcttgctgca ttatggctat 3300
 tatcttttag tttgcctgac ttacctagg acggctggct ccgatcatat gttgtatc 3358

<210> 1903
 <211> 3883
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1903

agcaagccgg tatgttgatt gtttaattcca cgcgcttggc taatgtgcgc cggatgtaga 60
 tttcacgcat ggcagtcaag cttgttgctc actgtcatgt tcgtaagctg tgtctggcca 120
 ttttctgag gtctcatgct catgcggtgc agataatcca ccttatattc tcatgggtcca 180
 gtttcttttc atggctacta tttatttgcg accttgcatt gatcggttc ctcagcctga 240
 aagcctatcg cgacggtaag agccaatcat cagatctccg tatagaagct cacagtcgca 300
 gttgatacac tcgagcactt tgaggttcct gttattggcc ggctcgcgaa ctggtttgtc 360

gacaacgagt aaatgagttt tgtcattttc gcaaaaattct agcctatact aagcgacttc 420
ttcacacctc gacttcctct atgatgttca ttgtatatgtg tttagagttga gcatttttctt 480
tgcatactga actaccgagt tactagtgca tgaatcttca gtgtcttcag ccttttgaac 540
ttttattagc gtgtcctagt gggtggatgc attgtacata ctgagatatt gttctaattt 600
gcaaaataata tcaaataattt ccagtatact atactgggtc ttatatgcat acccttggtc 660
aacacaaatg cttcattgca cagttctttc ctttttccaa ggataaagct gcaatgtcgc 720
ctcctaaaca gtgcaagcac ggcaacacaa tgacatttac cgctagatca acgcatatta 780
ccatcttcat gctcatcttc ttccttctgc cttatatgtt ttgcagccgc tcttgcaagg 840
agtcattaaa gaagcgtcca gcttccaaat ctttctctct agacctgcc taccatcc 900
aagacagact cggctctctc gcccaaagaa cagtctcaca ttactctgc accttctgt 960
ctagccaaca cccatccacc ttggagagaa agccaaaccc gggaggccaa gatgtgccag 1020
gtccaacgcg ttacgaacag ctgtgggcac ataaacgacc acgtcctcat gtcctgctac 1080
ctcgcaaagg acgtcacgcc gtcccccccg cttcacatc tctcctttac catcactaac 1140
ttccaagagt cgtacaattc cgcttcagct accttcgcaa tatatacgag tcagagggag 1200
cgccaactcc agagtgagga caaagaccaa ggcaaagacg aaagcagctc gatctggtct 1260
gggaaatcca ggacctcagg cagtttgagt caaggacctt actcgaacaa gaataaaaag 1320
gacgaggagg atatgattca gcgctttggg ttcgaagcaa ggaatcagcc atattgcaag 1380
ctcacggtcc cttaaagtctt gaactctccg gaaggattca aatgtatggt ttatgcgtgc 1440
ggaagggccg attaataggt ttatagcccg ggggtgtcaat tttcgacgtt tctgaaactt 1500
ctacctcaaa acaaagtcac gcttcgaatg aggaatcaag acggaaggga tacgtaaaact 1560
gatggtattg gcagtgggtg tttctgtcat tttgaagaaa gggaaactcg atgtacggag 1620
tatagcgggt ggaaatagac tgacaggctg acagagacca tctcaagata accgtacggg 1680
gggttctagg gcttgacgac tccgatgttc tccgactctt tcgtcggagt tgaaacgggc 1740
tttcagttgg tcgagcttac atatcctttc ccctttaatc acttcacctt gcatattagt 1800
atattacagg cacaatggta tagtaaggag aaaaagtcaa taagtgccat tctgaaggac 1860
aaaatcctaa aatcaaatcc cgattataaa tcaaaccctt aacatcaaaa aatccaagc 1920
aaatccagag cccaaccat cagcataatc gctgtagaaa gaaggagaaa aggcaggaaa 1980

gattattatc gaaaacgaca gagtatgcgc aggtcatagt gagcaagagc gaacgtaagt 2040
aaaaggattg aaacgtgacg aaaacgggaa aacaatacat caaggatttc acttcgtgag 2100
cacatcatag aagcaataag gagtgaggaa caagatatct catcatagat agccatgaac 2160
atcagtaaat ggccggtagt gattgagggc aggtaggggt agattgagat ctaaagtatc 2220
tggagataat tgcttggcac caaccccgtc cttaggcggg tggtagtgac ttcagcttcc 2280
caccaaccgt catcctgaag ccggataacg gaaaggacat cacctttctg gaatccaagt 2340
tcttcaggaa tggcagcggg gtagctgtac agtgcgcggg ctatcaggac agtaaagggt 2400
agtatgaagg tgtgcatgac atggatgatt ggccggtaca tctggtacat accaaagtgc 2460
aaaatggggc ggccatcacg gctaaactgt ctccctggat ccgcgaccgc catcgatcga 2520
ctcctggatc gactgcgctg actaccacca tcatagtacg acattgggtct tctagattcc 2580
ctctgcgggg atgcgtatcc gtcgcgcta ctgccgtaca tatccggctg tgaaagtgc 2640
agctccattc caccggcgct cgaaggcga gcttgttgc ggaactgagg ctgggggtgat 2700
acagcccttg gcatagagtt ctgagagggc cgttggcga agtcattggg tgagaccgcg 2760
cgtggaatgg acgtttgctg tcggtattgc ggctgtgggg atacagctcg aggggcagaa 2820
gcttgcgtgc ggtattgcgg ctgtggggat acagctcgag gggcagaagc ttgctgtcgg 2880
tattgcggct gtggggatac agctcgaggg gcagaagctt gctgtctgta ttgcggctgt 2940
ggggatacag ctcgagggac ggaggettgc tgcttgaatt gtggctgcgg ggatgcggct 3000
cgagaagctg agctctgaga agatcgcttg gcaaactcct tcggtgaggg tgccctggga 3060
gctgtggttg tagttggcga tggagcagcg cttgcagaac ttcgctttgc aaagtcatga 3120
ggcgaatatg gagagtcgct tgggcggtgt gggggagtag agacacttgg ggattgactg 3180
tgacgactct tcacgctgct cgattggtat tggcttgat tggggcttgc agcgcgactg 3240
tattgactca ttcgtgactc tcctcgagtg gccggttgct gttgcgggtg cggttgaggg 3300
cttacgcttc gcctaggagc agcgggtgat ggcgctcgag tggcttcctg agactgcctg 3360
gggctgcgac tagacaccga gaccgggttc gctttgcccc ggagcatatt atgggtctta 3420
cctgtatatt gctgggtggt tttttgcatt tgctttgagg tgaaggccgg ctggggagca 3480
tcgagacgct tactgaggc atcgttatat gccgggggtg gtgtggccac ggagtttgca 3540
gtgaagttcg atgcaggtgc agaaggaact ggcgtagcaa taccatgata cctatcagca 3600

gagacacggg ttgccgactg ctttccagcc acttttagat ccgctaatagc gcgcgcgatg 3660
 gggtcggtgt cctctccatc atttgccggc tccgcaccat ttggcgcagg tctacgatca 3720
 tctggagagg caacatcaaa cacgttggtt ccaacatgta aattgaaagt tagccctagg 3780
 atcaaccggg tcagcgatag cagatctagc aatatcatct gccgccttcg taagcagctt 3840
 ctgaagaagg tgaggctttt gaggagtgg agctttgata gga 3883

<210> 1904
 <211> 3070
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1904

aaagaaagaa aacttcaagg ctctcaccac cgggggacgc ccagaaatt gcagggctaa 60
 gtcgccccct gcccttcttg aaggccctt tggggatgcc aaagccaaac cgctcgcca 120
 aaaccgggtt tcggtcaaaa acaattaatg ccagctcct caagaatgac acaaacggt 180
 accaccgtat ctggatgtac tagagcgggt gaagtcaccc catcgagta gagatgaccg 240
 agtacatggt gagtctgaag ggtgagtacc ttgagattcc tcagaagggg tacgttgagg 300
 gcccggtgat gttgaagaga cacggcatct attattttat gtatagtgtt ggcgggtaag 360
 tctggtctgt tcgcggattc ggatgctcat gggtcacggg tctgtccagc tggggagata 420
 attcatacgg ggtagttat gtcactggtc ctcgccaaac tggtcctttc tccagcacgc 480
 cgacccaaat tctccgtgga aacgatcagg ttggcaccgg cactgggcac aatagtgtgt 540
 tcacacctga tggcgaggag tactatatcg tctatcatcg gcggtatgta aatgatactg 600
 ctctgacca tcgggtggtc tgcattgatc gcatggaatt tgactccgaa gggaacatcc 660
 ttccggtgaa cataaccatt gaaggagttg agggaagacc attgtcgtga ttaggcattc 720
 tcgtaaacac ttgttatatt taggggacgc atatcctgaa tctatataat tgacctagcg 780
 ttgcgtacgc atatgctcct aacacaacgc caaactccgg ggtatctgcg aatcaacaa 840
 aaggatactg atgggcaaaa aagggaagac gaaccgagac aggcagagcg tccatcaaaa 900
 catggagcta cgtttcttcg acagcttccc atcctcagag actcgtcgca gcccgaaaaa 960
 actactccgc ttgttctgca gatgcggctt ggccgcggtt tgtggtcctg ctactggggg 1020
 tgtagcaag gacattgtag acatttgacc gggcaattgc aggtacggtc gggagcctga 1080

gtgcggcatt gacggcccag catgattgta ctgaggacgt gggggtttcc ttggaggcag 1140
 agctgaagtc tgcgcacgag cttttctttc ctcttcacca tagagcttct gcaaccggcg 1200
 cgtttctttg tcaacctcgg cctgcgctct ccgatgggct ttttcctcct cctcaagcag 1260
 tctctttgtt cgtcgtctct ctctcttctt cgccctgctcc tgttgctttg taagctgagg 1320
 actgtggaca ggtggggggt gaggtgctgg tggaatatcg gtcaccaage cgcttgggct 1380
 ggcgggcagc ctattcgtag atggagtggg tgtaggagag ttggatggtg gtgagacgga 1440
 agcggagttt tgccctagaga tgcggaaggc ctcttttggg ctggcaaaat acacgtcgcg 1500
 gatggtaatg gctccgagca ggagtacaac ttctagacct ttaaagtcct ccatctcgac 1560
 acggtacagg tttggttcgt acaaagtcag ctacgcgaat cctttgaata tggagacagt 1620
 gatattctggc tctttgcttt tggctcttgt ttccgggtatc gcagtcgttt tcccacgaag 1680
 aaggcaagta aggtcctttg acagcttgcc atccttcttc caactaaagc gtagcttggg 1740
 cgtcgtgtcc ggcgggcgag gatcgatttg gacgcggtcg agagtagagc cgggtgggtac 1800
 ccggaactg tgctgcggca tctcgaagga ccatgaaggc gggctattcc agctcttcgg 1860
 cttgtagtgc acaatgacct gttggtcagg gttgtagagc tgaatcgtga agcgcgtagg 1920
 gagaataggt tctggcggag gggagacacc attgttctgg cggatagctt ccgccgatag 1980
 tgttggtgta gtccattcgg gtattattaa cacttcgccg tatacaacgt ctggcacgta 2040
 ggggtcgtag agggctacgg cgaagcgggt cctggaatcg ggagaggatc ggtccgggta 2100
 gcggagagag tacgctgggt cgggctcgtt gccaaactgg agaaggtaga tggctgatac 2160
 attggagtcc ttaaccgggt tgaggtagaa tgctgtgttg gttagtcttc cgcatggaat 2220
 tgcggacgac tgaggacgca ctgggaagat tctcgtcaag catttcaagc cgacgcggga 2280
 agttatccag tagatgtttt gaatgcagga aagctggtgg tttgcataga tgtaagccaa 2340
 gatacaattg aattgatggg agaaaaagtg ctttataagg aaatgaaaca ctgccgtcta 2400
 agctccagcg actgggaaag tagatgacga agcatgatca gacacagcgg gaaggctgat 2460
 tggctccctg catcaagaac ccgtctaagc cccctccgc acacaaaaa tategccccg 2520
 gcatacacag gcagagatat tcttgccctt cagccaaaga aagacccttt atcgatcatc 2580
 ataattaa gaccgcgtcg agccctcttc catccgaaac tctggtgcct tagctcagcc 2640
 ccagcaaadc ggacatctcg gattctgcct cgtatcacca taccccaagc cttcgttctt 2700

cgcgctaagc catgatcatc cacagctagt gtacgaactg accaatgtcg gccgtgcgag 2760
cctcttcaat ctccattgca aagcatcgtc aatattcatt ctgtcaaagg aatcgcatcc 2820
tcgcaaagct acaccattac ccttggtgcc taogcgcttt gtttaccag tcaacttttga 2880
ttatatggct tcattataat actagctgct tcaggggtca agcgaaaagcc gccggggcg 2940
taaagtgttg gttctttctg tatttgccat cagcgccctt gtcgtctgac gatcaagcaa 3000
aaacgttacg acatcctcaa ctattgagcc ttgggtgagt actcaggcga tctctctcct 3060
actttgctcc 3070

<210> 1905
<211> 3358
<212> DNA
<213> *Aspergillus nidulans*

<400> 1905
gctctccgtt ggatccagta tatgcccttg aaacggtacc aagcaactgt actgcgtcat 60
ataccatctc atcttcgata tcgaggatct gttgttaatc ttgagcacgc atggaggtga 120
ataacaagca catttccgta aataatctgg catgtggctg acatatttaa tggacgtgat 180
ttttcccata cttagagaac ccaatcttgc cgagattcct tgggtccctt aacgagcgaa 240
tagtattgca gtcaaactc tctaaagtta tcgataagac cggcgtctgt tccgtgagcg 300
gcgtaaatcg agctgtttct acgctgctac gatcgaaactt gttgtccatg attgaaaaaa 360
ataggtgaaga aggcgggtta gtgaagcaga gaatggggcg aaataacatc tcagaagccc 420
agatctggct agaacaggta catattatct tagtctcgta cctgtgtcca aaggaagaag 480
gttaagcgac atcgtttccc cagctggacg ttgtagggtc ttgccagtag gtacggtgca 540
ttctccgcgg ttagacccaa ggtagagtcc aatattatc actctctaaa tctcatcgta 600
tgattgtact tcacatgggc cgcggaatag ccttgattac tgagcagtc ggaactgcac 660
gagagagtgg agagccggcg gctttcactc cgaagcgta tttgttacta ggcctatatt 720
gggcaggcaa taagaacatg cagtcccca gcctccaagc atagcccccg acgatcatgc 780
cctatatcaa gtcaagtga cctgtagaac tcgggtgttct cacgtatata cgtgactatt 840
ccccgctgc aaaagtacac taatagccta cctgggtgt aactcacgct tccggcatta 900
ctttccgct acaaggctct ctccaacctc taaatgttga acacatttat gtttgccact 960

cgaccgag gagatactg ctggctctga agcataccct gggaaagggg tataatacac 1020
 tgcttatata tgaccatatt atcaccgaag tggggtgcat tcgcttatgg cagcctataa 1080
 tattaacgtc tcaattgcaa ttatggagac gattgagggg cagtggatga ctttaactggt 1140
 ggggtgtaga tataaggtgc tgatggacgt aggtcgccgc tgggtggtgca gactgtggag 1200
 gtggaactgg cctagttagc gtgcgataaa gactgatgtt gagaatatgc tttcaaaaag 1260
 gccacttatg gaaatggttt atttaggcta tgatcataag ctcatggcag cgtgtgtccg 1320
 tagtgcgagc tcgaatcagg gttagtgtat ttgagcttga tgagagagat ttagtatatt 1380
 ctcaatctcg ttttattgtc actggctcct gttttcaacc tgtaaggaa ttgaccagaa 1440
 atactcacgg agcagattgt ggctctgcaa gagcaagcaa atgggctcct cagtacatct 1500
 ctccagccca gttaccaagg actaaatata gccgttgcat actacaccca gtattactcc 1560
 atgggaggtt cagctaaaag agcaaccct gaattagcat aatccgctcc acgagatagc 1620
 tgagatgatt gtccaggtgg agttgaaaag catgggtata ggtgcagcgc cgcactccag 1680
 ttgtcaggct atgacagtca cagataacta tccacgagct cgtttatggc accgtgggca 1740
 aaggaaggt gggggggtat agcacggtgg gggcccttc aagagtacat ggccctcaga 1800
 cacgtaaaga tattttcgtt ctccatgctt atctcgctt catgcttatc ctttgggcac 1860
 tggtaaaagc atcggcagcg atttgagatt atgccataa gccagtatgt actaaacact 1920
 tccaattcaa gatacgcttc aaatttcata gtctgaaatt cggcttggga acgccctgag 1980
 gatttttcgt cgcttcctgg gcgaactcct ggttcagtca tcaatgcttc aacgtcatag 2040
 ccattactat ttatgtgaaa tggatcgact gcagatattg tgcacaccgg ccattttcat 2100
 gtcgcggttg tcgccctaat tgttatcatc atatgcacaa tccagcagcc agagtccttg 2160
 gcttttacct ctagtcagcc aacaaagctc ctccaacaag gaatagagag ccgatgtcta 2220
 aaatcagggt attgaattgc cgatcgagat tcaatacgcc gaacaattgg tcattctcta 2280
 atcgctccg actacgcca tagtgataac ttgccccgcc gtcaatcacg tagacatcca 2340
 ctcagtggat caaggtgtc agaattcaag gagaatatgc aaaaggatgc ctagactctg 2400
 taatgtctcg gagatgggca tgagtagggc ttgataaatt aacaggaggg ctagaaaaat 2460
 ccgcattatt acattacgcc gggatggtct tgtccagccc gcgcaatcga ctatgcaaaa 2520
 tagtaaccaa tccagaaggt aatgcgttgt tggatgcat cctgtctatc aatgacgttg 2580

gcggccactg gaagctgcta ccagagcgcc acttatgcgc gaacgttaga gatgcacctc 2640
 aatcaccggtt acctgcagta tcgtgcattt cccctcaatc tccaaccaac caaagcgggt 2700
 cctcaacctt atacacccag cctgtgaggg gtcttgccgc ttgtttcgga ttgacttcct 2760
 gatagagtca gctgcagctt ggtaggacat gcctgacgag atagcagtat gtttattctg 2820
 tcaatggcac tgtatatcgg ttaacgccac gtcctggat tgggcacctg caaaatagct 2880
 ggtctgcgat ctacttagtg catttgccat agatgcagct agcaagtaac ggcaattgca 2940
 ttgattgaca gatgccctaa aagctgggtt cttaccgagt ggttcactgc gatgctctcc 3000
 ttcttttaca caccgagctc aactcaagaa tggactttct aatggaatac ggcagtcctg 3060
 ctgggtttttt caccattttc gctacattat ggctcgtata ttgtctgttg cgcagtctgt 3120
 ataatgtctc gccgttacac ccaactgagcc atatcccggg gccaaatctc gcagccgcaa 3180
 ccttctctgta cgaatcatgg ttgacctgg ttttgggcgg caaatacacg cacaagatcg 3240
 agagaatgca cgagcaatat ggtaatctc caccacggt gtcgccagaa aggaaacagc 3300
 gctggaatgc cctcgtcgtg gcaggtacgg tgggtgcgct ctctcccaa taacgccc 3358

<210> 1906
 <211> 950
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1906

tgttttggta tacatgacct tctgacagaa tgccagagag gaggagagat gtcctcgccc 60
 cattcattcc ccttttcccg ctggagagag cacctaagcc tgaacctatg aggcactgtt 120
 ttcataagcc tgatcttcca aatggctcctg tttttgtgag cggacaaaaa gaaagccttg 180
 aaagaaatgg caacgggtcta agactgccac ctcggtcaca ggtgcactta caaacagga 240
 atgtgaatcc acaggaccac gtgcttcctt ccatcgagaa tcctcttccg gtggagatca 300
 aacgccc aaa cagtggccat atagagcacc ttactaagag gatgtctgga gctttcacct 360
 ttcgctcagt aacaccacac cgccaggtgc accatgatct tocaagtcgt acttttcagg 420
 aacctgttgg tcaagaccac atatccaaaa gacggcgttt ggcataccac gagccaactt 480
 tagtgga aaa acccttgtct cctaacggac ctcttttgag cactcaccca ggaactcggg 540
 atgcccggcc ttttgtccag agtgggtccc atgtccgtag gccatttggt tccccactg 600

aggcgcgtcg tatcgacaaa cagagccaa gcattggccg tgactctttt agcactaccg 660
 ctgcgtttga tcgcgagcaa cacacactcg cacatccagg atcgatcaaa gcttacgatg 720
 gccagcaatc ttcttacaat catcttggtt acaccaggc cgcgtatgat agatctccag 780
 ttcaggctcg taccgcgtct gacacgagat ataccgcagc eggcagtaac ggctatgata 840
 ggaatttgca gccctatttg tcagacttac cagagcacccg tgtatctcac aacattaagg 900
 tacatgatga cgctgaaatg agacactagc gacgacgggt acttggttag 950

<210> 1907
 <211> 3318
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 1907

gtgcttctat gccgataccc tgcattgtgca taagatacaa tgcttagaga actcatgggt 60
 tatttcttcg ctgcccactt aatgactgaa taatacaaga ccgtagaca tgtgattggt 120
 tttgaccgaa ttgacatacc ttaaccaatg ttccagactc aggatatagt aaacggccca 180
 tatactgcct gcataactg cgcagctaag gttgagcctt tttctggac ctaagctagg 240
 cacaacggct atgggctcga acaagacaac gggttgacta acaagagcat atttcaagag 300
 aagttaacat tgaaataaac ataacaagtc aggccatgca gggcatcaa gctaagagct 360
 actaagaaag atcaagcacc acccgccctt gcaacttccc ctctccatc tctttgaaaa 420
 tttcagtcaa ggctccatc ttctcctccc ggaagtgcgc cttaatgaca cccctcgccg 480
 caaactccat agtctcaatc gcctcgttcc tatttccgac agccgacca gtgacatgca 540
 catgcttctg gataaacagg cctgggtacg cacttgcat agcctgcggc tcgttctcgg 600
 ggatacccac gcagaccatc gttccgttgt accggaggaa gagcaaagac tgagcgtaag 660
 caatattgga cgccgtgcaa actatgacag catgcgacc aagacccttc gttgtaagcg 720
 atttgacgtg cgaggagatg gcctcgaatt tatcgccgt tgggaacttg gtgatatcca 780
 cgaagtgtc ggccgtgac gccttgacga gctcttctt actccgtgg tcaacgcca 840
 tcacacgcag gcccatgcc ttggctgcga tctggacggc taagtggcca aggccgccg 900
 cagcgccgga gatgacgatc cattgacctg gttgggcttt actgcgctta agagaagcgt 960

agactgtgac accggcacag agaaggggcg ccgcttcggc tgatgggagg ccatcgggaa 1020
 ttggggtaac gtattgcgca ggaccgagca cgtattgctg gaatgtgccg ggggtgtagt 1080
 aacctgatac cttttggttg aagcagagggc cgtcggcgcc gtcctggcat ggagctttgc 1140
 gttgttagca agttttggtt aaaatgcgtc taagggtgat gtacgtacgg cactgcccac 1200
 aggcgctgga aatccactta acaccgactc tgtccccgat cttcaatcct gatgcttcag 1260
 gcccgcgcgc agcttcacca ctttgccaac gccttcacgg ccaccgactt gtccgggctg 1320
 agtagggaag ggtagtatct tccactgtat catccattag catgcgttcg cccttgatga 1380
 gactccagga caggaactaa gtgcctaccg tgttggtcat aatacaaaaa tctgagtggc 1440
 aaacgcgcga atgagtgcga caatgttata acgttagtaa ttggtacatg ccagtactcg 1500
 actcggcttg gatatcccat tcctccaagg taacaggtat atccagggca cgcacagatt 1560
 gatcaggact tcattgtcgc cgggctcagg tacatccagc tcgacgacct tggtagagac 1620
 ggtaccgggg ttgtcgtaga tgacagcctt ttgcttcttg gggatttcag gagcagccat 1680
 tctgacagat ttcgcggggc ttctcttgta tcgttgataa gataaatgtg ggaaggtgaa 1740
 agaagtagag gaaggacaag cctctcttta tatggctatc ccagaccaga gcaacgtaac 1800
 gccaagtcga ctatcatctc tagcctgacc ataaccttag aagcagtcag gtagtctgat 1860
 tgctgatatg aaaatgaggg gaaagggcat ctccgcaggg aggggagagt ggctgatcca 1920
 aggaggagag agcagtgggc cttaggccag cccaaagcag gagtctgaga gagcgaagtt 1980
 tcagcatgac gcagctaagc tagaatatcg cattcatgga acgtggatc atgattcatc 2040
 caatcagtct cgaggcagcg tgaggggccc cggcgccga ggaggtgccg tgggtgaaca 2100
 gcctcggtta cggtagacaa ataagacgcg tttcatagtc ttttgagtcc gtaacagtaa 2160
 actagctgac ttgagagtgt tcgtaatgtg gtcttcgccg atgggatccg acaggttcaa 2220
 ggttgggacg gaaacactgc ggaacttggg gtccaattgt cgatgtgatg gcggggaaaa 2280
 cgcggggtcc aggaggagga accatagcag gaccgcgacg atgtctagga caaggtctga 2340
 ctttataatcg cgtcgaagtg agtaccctgg actccaagcg tcaactacta tataatgaac 2400
 cttcttgaac aagtctatgc caatgatgtc aagccgtaat gcctatggcc agttcgggtc 2460
 gaaatcaccg gacggcaacg gctaatatag atcaaccgcg aatttacccc cgatatctca 2520
 ctcttatatg gtcattggcat cctgacgttc ttcttcacca tgtctagacc agaaataaat 2580

cctcttctgg acctctggac acgtaaccgc tcaagatggc cttccctatt gtggactcgc 2640
 acatccatct atttcctgaa tcccaccttc ccacactagc ctggtataca cctgacaatc 2700
 cactggcatc tcaacattca gtcgacgaat atcgttctgc agtgaaatcc tccacatctt 2760
 tacgcgggctt tatatttctt gaaactgacc gcctctcatc ggtcgaagag tcggagacgg 2820
 gaaagcatgg ctggacccat gccctcgatg aagtttcgct cctcgcaaga atcgcaagcg 2880
 gtacacctct tccgggagag gggcacaatg ctgaagatcg cgatctttgc ctggggatag 2940
 tcccggtgggc gcctgtatct ggaggaccgg atgcgttgga gaagtatatg gcgctagtga 3000
 aggagagagc aggatcagag gaggtttggc gtaagatacg aggcgtacgg tatttggtgc 3060
 aggataaacc agcggggggtt atgctgcagc cagcattcat tgagggggtt aaatggttgg 3120
 ggaggaaagg cttgactttc gacttgggcg tggatgcgag gcagggtggg atttggcagc 3180
 ttgaggaggg ggttgagatg atgagaaggg tttncgaggg cggttgaggag caaaaaaag 3240
 tcacgcttgt gattagtgcg tcaancctcg ccgtctattc agagtcttaa tttggtgcc 3300
 tgcgataata tgctgcct 3318

<210> 1908
 <211> 1734
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1908

cccctagggc caagcaagag ctgctacggg gatttggcct gttcagtctg acgagtctag 60
 ggattattat tgccaagtga gctatttttt tggatttcct ttatctatct ctccatcttg 120
 caccctgcat accagacacg tcacctatct aaatgtcgtc aataacagct cgtggggccgc 180
 aaccggaggc acaatcggtt ctgcgctgta caatggcggc ccaatggccg tactctacgg 240
 cctcatcgtg gtcagcatct tctatgcctt catctcagcc tcgctatcag agctcgccctc 300
 agccatcccc tcggcaggcg gcgtctatca ttggctctcg gtcgtcgcag gccggtacgg 360
 ccgcgcggcg ggcttcttca cagggtacct gaatgcctgc gcatggctac tcagcgcggc 420
 atcgatgagt tcgattctag gcaacgaagc agtagccatg tatctactgc gtaaccccga 480
 cgtagaatgg cacagctggc agccgttcat cgtcttccag attgtactct ggatgtgctg 540
 cggaattgtc tgctgcggga ataggttcct cccgctgttg aatcgaattg cgctcatttc 600

gtcgatgggt ggcttgttca ttacgattat tgttctcgct gctatgccgc gtggtcgggtg 660
 ggccagtaac cagcaggtgt ggaggactta ttataatgaa acgggggggt ggtctgacgg 720
 catttgtttc ctgagtggcc tgctcaatgc ggcttttgct gttgggacgc cagactgtat 780
 tagccatcta tctgaagagg gtaatgctct tccgtagcat tctccatgat gggatagata 840
 tagcatgcta acaggggtggc atccagtgcc gcagcccga cggaaagtcc cgcaaggaat 900
 aatgctccaa ctctcacag cattcagcac agcattcacc tatcttatcg ctctttttta 960
 cagcataaat gacatcgacg ccgtcttcaa cagcgcactc aacttcccca ccgccgaaat 1020
 ctacctgcaa ggcacaggct ccaccgccgg cgcagtcggc ctcgtcgcac taatgttcc 1080
 cgcaaccttt ccaaccctaa tcggcaccct cagcacaggc ggccgcacgt ggtgggtcc 1140
 cgcacgtgac aacgctaccc cctttgcgcc gttccttgca aagggtccac ctacccttga 1200
 tgcacccgtt aacgcaactg tcgcgatgac aaccatgggt acgtgcctag ggtgcatcta 1260
 tggaggaagc acgacggctt ttcaggcatt gatcagctcc ttcacgtac tcagcacgct 1320
 ttcgtacgcc ggccgcatc tccccacct gctaagcggc cgaggccgcg tcattttcgg 1380
 gcccttccgc atgacccgaa gctggggatt cattgtgaac gtgctcgcg tggtgtatat 1440
 cgctgtgacg gtggtgttct tctgcttccc gtttacgttg cccgtgacgg tgcagaatat 1500
 gaattatact agtgtcatta ccgtaggttt aatgacgatt gtgctggctt ggtggactgt 1560
 gcgggggatg agagagtatc agggcccggt gtatagtatc gaagctgcgg aaaagattgc 1620
 tcatgaagag acggagaggg ttgccgagga ggttggggtc ttgggcgagg gggttgggac 1680
 gagggaataa gctatagtat agattatacc aacgaagtgc ttgcaaacag ctga 1734

<210> 1909
 <211> 4454
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1909

ttctggacct cccgtgcata gtcattgaca gccggcataa caggtacaat caggacctga 60
 cgcgggctga tccagaacgg ccacttgccg ccaaagtgtc cggatgatgat acccaaaaac 120
 cgctcgaaac tgccaatgat cgcgcggtga atgacaacgg ggccggcacg gccgggtgcg 180
 ggctcgttgg acttggggtc agcctccttc ttcgcttcc 240

tcgccagtca tgtactcgag cttgaagtta aggggtgcct ggtaatcgag ttggatggtg 300
 gcacactgga actctctctt gagagcatca gcaatcgtaa tgtcaatctt aggaccatag 360
 aaagcaccat ctcttcgtc aatagttcag tcgtcgccct tgaacttggg catggccttc 420
 ttgagctgct cttcggcgta gttccacgtc tcaagctcac ccagatactt ttcaggacga 480
 gtggaaagct tgagcttaaa ggtgaagccg aacagtccat atatggactg caggaagtca 540
 aagagtcctt cgatttcgga ttcaatctgt cctcgtcagc aggtctgtag gatacattct 600
 ttgcaaagca tcttacctga tcgtgggtac agaagatgtg ggtatcgtct tgctggaact 660
 ttcgaacacg ggtgagaccg tgaagagcac cagacgcctc gttcctgtgc aaaacaccaa 720
 agtcgcgat tcgcagcgga agctctcggt agcttcgctc gcggtggccg aatagcacia 780
 agtgaccggg gcagttcata ggcttgagag ccattctctt cttttcaaca tcaagtttga 840
 acatgtcatc cttgtagtga gcccaatgac cggaggtctt ccaaagccg acgtcgtaca 900
 tgttggcggt ctggacttct tggatcctc gcttgcggtc ctcggaacgc aggagggact 960
 ggagggcggt gaaaatcctg acaccgttgg gaagaaggaa cgggcatcca ggcgacacgt 1020
 catcgaaaaa gaaaagttct tgctccttag cgattctcag gtggttgccg ttttcagcct 1080
 cctcaagaaa tttgaggtgc tccgccatct gtttctgtc ggggaacgcg acaccacgaa 1140
 ttcgtttag agagtcgttg ttctggtcac cgaggaagta ggcagaggag ttctgctagg 1200
 ggttagcctt aacgctttta ggggattcgc ttagtatagc tgacctgcat gatcttgaag 1260
 gtcttgacct ttccggtgct ctggatatgg ggaccctgc agagatcaac cagagtacca 1320
 catcggtaaa cgggtgctctt ctccccagtg acaagtttgt cgatgtagtg cagcttgtac 1380
 ttgctgtacg caaacatctt ccggagattc tccttggtga cttccaatcg gtcgaaactc 1440
 tgcttctctt tgaaaatctt gttggccctg ttgtcgaggg tcttcagtc ggactctttt 1500
 acgacacggc tgcctagatg tcagtgactg tagcgaacgg acgaacgaga tgcgtactta 1560
 tcaggcatag ccataatgta gaagaaacct tgtggagtag gcggcccggt ggagagcata 1620
 caccgtact cgcattcgca agcttcacct agacagtgtg cgctcgatg ccagaaaact 1680
 tcccttcctt caggatcgct gaaaggaaca tacgacactg tgcattctcc ctccaatggg 1740
 cggcctagat ccagagctg tccatcaacc tttgcaataa caatatccgc gctgatctcc 1800
 tttgggacgt gtttcagtag ctgcgctggt gtggtttccc aagccttcga gggaatcgtg 1860

gtagtatattc catcgccgag ttgaaggggtg acattgattt caggggtgagg cctgttcttc 1920
 acctcctcca gatgctcctg ccataactcc tcaaacagct tgttcgctc aataatgaag 1980
 tcgggggagcg tgtcgccgcc tacaacaatc gacatagtca ggaggggttc gaagattcag 2040
 cggggcaagg aatacgactc actggccggt ttagcctcag cggcagcccc aacaggcaaa 2100
 tctttgggac catcagaagc cataattgca cctctcaaca aggaacaag aatgatcaaa 2160
 ggatatgggc gttctcgca cgagaggttc ttttgatgtc tcaagcctc agaaagtga 2220
 ctcatgctg tgaatcatac ctacccggaa ggcggtgagt aactcggtc gcaacatattt 2280
 cctttgaggc tcccgcggtt tgaaaacttc tccgcttcag tccgcaccag gtcgacaaga 2340
 acaaccccaa catcaagatg tcatttcgca gaggcggtcg tggcggtttt tccggtcgca 2400
 gtggaggctt tgggtggtcgt ggaggtgaagc aattgtgaca attgaagaca gatattgtgtt 2460
 tgaccagagc taaatgaaat ttttttggat aggcggcccg ggaggtttcc agcagtcttt 2520
 tggaccgcca gaccaggtgt taggtgatta ctacattga aactggcttg gaggcacaa 2580
 ccggctaatt acaattttag agatgggcac tttcatgcac gcatgtgaag gcgagatggt 2640
 ttgcgaatca atcaaccga agattcctta cttcaacgcc cccatctacc tggagaacaa 2700
 ggtacgagac gagcaatatg atctgggaac aatttgacta atgattgctt tctatagaca 2760
 cccattggca agatcgacga agttctgggc cctatcaacc aagtatactt caccatcaag 2820
 cccaagaag ggatcgctgc gacgtccttc aagcccgccg acaagggtta tatcgggtggt 2880
 gataaactcc ttcctattga gaagtatgca tctttctgcc cttgggagag tagtagcccc 2940
 gctgaccagc tatatcaggt tccttcccaa gcccaagcct ccacccggta aatatatcca 3000
 ttctgtaaca tcgccctctt acggactctg ctaacaagac aatagggtgc aaagccaaga 3060
 aggcagtcgg agctcgtggc ggcggtcgtg gtggtcgtgg tgggtgctgc ggcggcggtt 3120
 tccgtggccg cggcggtgcc ccagaggac gtggtgcacc tcgtggtgga agcttcggat 3180
 tccgcggtgg tgctggcggg aggggaggtg gccgaggagg gcctcgcgga ggcttcggc 3240
 gttaaaacgt gacagcttct ctgtctttgc ctgctcctgt cttattacgg cgttatggga 3300
 acacgggaat tatgtcgata attttgacca cggtcatttg agaaaaattg gttttcatct 3360
 agtcttgaag tttgtatgat ctgatcttct ccgcggtgtt gccgtgacct acgttgata 3420
 cgaaatcagc ccacaatagt tacacgtgct caacggccag aggcattctc agtttaagca 3480

taatccaatg ttgaactaga agcggttattt tgtcaactcg aacagagaag cttagaacct 3540
 gcttgctggg agacgtggct gagtgtggcg cagcgatgac gtctagtcgg actgctgaga 3600
 gcctgaaaga agcgagagcc tgcacgtgca aatgtcaaca cattctccat cggaccgcaa 3660
 ttgcagccca gtattgcttt ctacctaagc atcaccatt tatattactt tctagccact 3720
 atttacccta taaacctctt tttctagctt tcccttgtat gagcatgttt cgaaggactt 3780
 cagccatgcc cgcaactcg ttttcacaca gtgggtgtct agtgactgag gatggaggta 3840
 tgccaggact gcataaatga catggctcag cttattgcca ggaagttgat tagctcatga 3900
 aaaccataat gatgcagtgg ccatccaaat ctagtggact tagtttgtct gggccagatc 3960
 ttccgtgctt agaaaacttc ctccctctc tgtcagtgtg attctcggcc ctctgcacct 4020
 atgtcacct ttctctctc cttcttttcc aaaggctttt ttttttacct cattccgagt 4080
 aggtgatcta acccttcttt taactttgcc ggtctctata tattctccct tacaacgcct 4140
 tttatgtcct ttatctgttt tcctaacttc cttggttgc ctttttagac ttgtacctcg 4200
 taatttcata tctcgatcc attattgatt acctatcact gtcccttttt ctcttatctg 4260
 catctcttac ttatacttag tctatttctc ttctctctc tttaaattct atcccttctt 4320
 cctatatccc cctcatactt tcattctttt ccttcgcact acattcactt cctctcttaa 4380
 cttttatttt tcttcttaat aactatatat tcatattttc ttctcaatt attctacctg 4440
 actacctctc ttaa 4454

<210> 1910
 <211> 8709
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1910

tegccgttct ttgaattaat ctaccaatca caattccttc ggtctcaaatt gggcatcaat 60
 ctctttgcct ttaaattccg aaacacaaac cgcaagacag aacgggggtcc cccatgcaag 120
 gcgcgcaaaa gatccaccgg tagttcttgc acacagaatg gcaccaacc cggcggttca 180
 gaagccattt gttgttatgt gtcaccctcg gtctccaacg ttctcttacc ggcgcagtca 240
 cctttcgcgc aaaactgttc ggcattccgag ctgtactcat agacggagaa tgtccactta 300
 tctagcgtca agctccacac tccgtttgag cccggcgatg aatctacgcg ttgctccac 360

aggtactgga agccctggtt cagaagacgc ggcgcacgat gccaacggg ctgctctttt 420
 tgcgagggcg gcatatgcat tgatgcggcc taccgttagg tttgaggggtt aacgaacgtg 480
 ctccagccatt cttggtctac agttgctatg agccggtggt aattaagctg gtggctttgg 540
 acctgttcgg gttacgtgag ctccgcttca caaaagcatg gaatcgcgtc tatttcggag 600
 tgggcacacc caggaccttt ccactagag aagtccaaac gatgtaatgg tgcttcagtc 660
 agaaggacaa tcattgcgcc aatacagcat ggatgtgaag cggagttcat aaacccatgt 720
 gtcaaagcca gttagtgagc ccactatcac ccccatcaac atgcattgct gaagcagact 780
 ttgtcagctc atgcatgtgc ataataattct acaaaaccga gatagccgtg ccagtctgcg 840
 ttcgctgagc ggcacataag cttgggcgta tttttctgag gtatggaata gtgcatgggc 900
 agcagaaatt aatgccagaa cggccttaaa cgaagccgt catggccctc gcaataaagt 960
 gacaggacat gaagcggcaa tgagcattac ctataaggga aaggcatttt cagcgcccaa 1020
 tgtactgctt ggccctacctg cctgaaatcg tcaataccac ctccaacgac cattcgtgag 1080
 tattacttgg tagtatgtc cgcagttggt ggaaatccag cgccaacaaa caaacatgag 1140
 aacgaacgtg agctatatct agaggacttg atacctttaa gaataccggt gggtagaaac 1200
 tgagatgggg gagtgggtgg gtgagggata cccatagccg acagacaact gaaatcgatc 1260
 agcaccttgc gcgattcaca gcataggcag aaagaaaacc cgtacttgca agacaatatg 1320
 ttaatgtctc gcattgcac atacattaat gggacaacta ataaattggc taacttggaa 1380
 cctgttgttc tcaattcacg aaacacttct acaccttcag gggttataaa acatatttgc 1440
 cgccgcaaag tatggagaga ccaaaccctc gtcctacgaa tgaaacgcaa atgaaaaact 1500
 tccacaaaga aagggaaaaa gagacacagt gagaaagaga agaccaaata tcatacccat 1560
 tcgagttgac ctattcaagt gcacattgca ggttgatacg atagttagac ataccgcaa 1620
 ttcgttgaag actgcaagtc catgagcaaa acggcacata gtctgcttgt tgcactcgta 1680
 agctccaaat aaatgccgca ttttggaggg aaggcggcaa agttaagact gttttctgtg 1740
 tccgagtaga tcatagtctg acacagagag gcccagata gtccagtctg ctagaacaaa 1800
 ccgccgggag aagcacaggt gtcgacagcc ctggcgcgta tggtttacca tatcaactcc 1860
 agccggacat ttgaaggaag cgatggttga ggccagctgc cggtgagtga gaccgtata 1920
 gggcgccgct ggcttgggtc gaaggaggcc atgctgtttc atctggttca tcagagcatc 1980

caacatccga gaatcgcaat ctacagtgca tcctgggggc cctttaagga gtacgttaag 2040
 agtgttgtgc aaaacgtcga aatgggcgcc gatgaagcaa ttccggcgct ggttagatc 2100
 ttcgaggaca tcaccagaaa tgggagcgcc catggaagta atctgtccag ggctctctgc 2160
 gattgcaata ctagtgtact tggcgaacat gttgtcaaag tggaggtgga gcgaaatcga 2220
 cacaaaaacc atgaggggtgg gacaataggt tctgggcggg tccgagtcct tgctcgatag 2280
 ccacgcagaa acatgggagg caataagaga ggggcattcg aaaaacgctg ctatttgagt 2340
 gaggctttgca atttgaagga ggtcggtaag aggcgtaatg ggggtgttgcg ggttgtgaag 2400
 gatcgtcaag aacaaccgga cgagatcggg atcgtacttg ggtagcacat aatcaagccc 2460
 acgcggcgaa cgtaacatgg tttgagcttc taagggtgga aggaccctgt tcattagagg 2520
 cgagacacgc ttcaattgat cggctgatgt gcggaatccg gctgcaggag gctgagctgg 2580
 tagagagcct tgtcctgggc caccttgctc gcctgctcca gcctcgtgat tgaggggcac 2640
 gatgatgata agtgtgccgt ctccggctaaa gaccgtcaag cggctgggac gaacagtagg 2700
 gtaagacata attgtgatca atttaaggct ggtaagatta gacagctcag tagtctaaca 2760
 gttaagaacc ggaatgggtc ccaagagatc caataaaccg cttcaagaac agaccagaaa 2820
 gaggataaaa aacacaatca gaatttaaaa aaaaggggag aaggaccaa ataaaagctg 2880
 catagccgaa caattagtag tgaataagta taacaaaacc cagtgaatga aaactcctta 2940
 gggctctggc ctatctcgca ccggcagttg aactgccaat agtaaagata tctggaaatg 3000
 ctggccaatg tactcaattc cttcaaggct acctttgtct cttctgcagc acctatgagc 3060
 gtcgcggaac atacgttacg cgggccactg aagtatgtta gatctaactg aagacataaa 3120
 tgacagttgg ttatcatggc ggagcagaac gtatccaaac agaatatatg ccctgccctt 3180
 aacagttgga gcattagcac tacatatgct agtaataact tcaacgcgcg cgcggagatt 3240
 cctcccatta ataatggctc gaacatgaat tggcattgcc aggaccgaa atgctgcaac 3300
 tgggtatgtc caggagggct agttgatgga ctcttagggc agttcaaagt gaaaacctac 3360
 aaatcgattg ccagaatcc cataatcatt aagtgtataa atgacctcaa ccaatctacc 3420
 agatatatat ctacgaaca gcaatcgctg tcatcattcc cattccctcc acagcaacca 3480
 tcgcagcagt cgtcatcccc gtcgttccca tccctattct gcgtcataaa gtcgagagat 3540
 gtatacggct gctgctgctc ataccactg tcgttatacc ccgagttgcc gttgtcatac 3600

cccaaactct gagtctgata cccctcggtc ctgctctcat actcatagtc agatggctct 3660
 agttegctcg aatcttcttg cgcctcagct tcagcttgca atcgctgctc tcccactgc 3720
 tccctttccc atgcaacccc cgctgctgca ccggccgcag cccaagtgc cgctcctgca 3780
 acaacacctg caacagtctt atcccaatct ttctgtctt gctccacctg cgctgtgac 3840
 ttataccaca tatattgctc gtactcatac tgctctgctg catcagcatg ccggatctgt 3900
 tccatttcat ggtccattgc ggcgcggtct ctctcatact gagctgcaag ggcagcattc 3960
 tgtttctcga agtgcttctg gtgcgcagca gattgcttat caaaagccct ttgttgctga 4020
 ttggcgtgct tggtgaatgt tttttgctgt gctgcgaatt gtttctgcat gctctttgct 4080
 atctgcgcgt tctctttctg ggcactttgg tttagcttcg cttgggactt cattgtatct 4140
 gcatgctgct atactctgagt ggtgtgctgt ttcaactggt gcccggtgtg gcgctgcgtt 4200
 gtttgaatgt gggagagttg tcttgcttgc gctggagccg agcggggatg agggaggtag 4260
 tgggagcgag accgtgctgg agctggagta ccatgggcca gagactgagg aggatgggtat 4320
 gccatctgct gtggtgcacg ggggtgagca ggtctggtgt atgccggcgc tggggagtga 4380
 ggatggggat gggaaatagc ggtaggatga gagtgagagc ggccatgagg ctgggggatt 4440
 ggtttacggc ggtgtggtgc ggtcatttcg gatagagtag cttgtttaat aggcaggcag 4500
 atagggtcca agatgtagct gtaagaatga ttggagtga cggagccgaa cttgcagag 4560
 gatggaccgc gcatgttct tataccctgc gtcctcagat gtcctgcgaa cctgattcaa 4620
 atagcaatcc tctactcatg ctaatagttc taggtaacct tactatcagg acttacaatc 4680
 cactaatccg accccaatgc acggctaaag attaagcaat atcgccacg tttgttggtc 4740
 cagcgtgcc ctatttagga aatccacgag gctgccatgc acgcacgccc gaacggctgg 4800
 cccttggcga cgttttcctt ggctaatttt aggtgcgtg ggataatgta aactatttca 4860
 agcatcagca gcaagttaat tggaccagaa ctagtctaga cttgtcccag ggacgctgc 4920
 ttctggggct gatttcgacg ccaaaggctg aagacttcac aactccttca atgcatttga 4980
 aactgagca atagcctggc cttaggaaag atagctactt gttttgcagc ataactctaa 5040
 ttccgtgata cttgtccctt cttccgtttc gttgtgaggc tggagttaa aatgagagct 5100
 aatagttag agcgtggaga tctccaagtc tgtctcgatt gttttacaag gtctcatcac 5160
 tctgaaatga tgttttgatc gaattgcgtt gccagagcct cgcacatctc ttttcggctt 5220

actgttttatt ctgagactcg tgagttaatg ggtcataaga gggctaatacc agccattgtc 5280
 tgggtgttttaa tctccaacca agggtaatgt atatgctgat cggttgcatt tgggctactt 5340
 atagtgtccg acaagaaact aaggtttatc tcttgattca agaagaacac tgacggtcct 5400
 acagcgacac ttttctgccg aaattgggaa ctaaagaagt atgtgagatc ttattcaaaa 5460
 cagataaggc taggccagag aggagatatt tgtctactga gtggagatca tacgctagta 5520
 tctattctaa tcgcactatg caaaccacag taccactacc cgtatcagaa ttgacgatat 5580
 ctacgtccca tgctcatacc cactacgcgc ccgaaaccct ggccccttgt agaagaaaac 5640
 ccacggaatc ggcgccatca ccgtagctag aaatcccaga agactagtcg ccaggtccac 5700
 cccacgcgcg tcgtacatct gcggtacgaa cagcgggaac gcagtggaaa ggggtatacct 5760
 tgtcaagctt gacgccccac ttgcagacgc cccgtattta gaccataca cgtcaagcat 5820
 gtagaagtta caggggatgt atataagcat actgccaagg aatgtcaggc tttgtgctac 5880
 aatggggggc atccagtgga tgtgcggttt cgccgtccag gcgaagagga agaggccggt 5940
 ggggaggatg agagagccaa acatggctgt gtagagcttg agctctgggg gcgatccgcc 6000
 gccctcagtg ttgttatttc ggattcggag ggtaggattt agctgcacaa tccggtcgac 6060
 tgtgaagagg actagaggtg cacatatgca gccggctacc atgcctagga aggagaggcc 6120
 ctgaccagaa ggggagaagc cgtagacgtc tgcaaaaacg cgcgggctgg cgacgatgaa 6180
 ggtgtagagc agggcaaact ggaagccgca gtagaggcag atgaagccga cgaggggctc 6240
 ggtgaagagc atatggagcg ggcggacgat ggtcgagggt acgaattctt taaagagctg 6300
 cattgcagtt tggcgctgca caggcaggac accttcgcca ccagtttct ctgcgcgcct 6360
 ttgcaacagg atcggttat atgactctct gatgaagatg gctggcggat ggacgactgc 6420
 cgccatgatg agcgggtgtcc atgccgtcca tcgccagccg cgctgctcga ccacaaatga 6480
 accgatcaag ggaccattg agcttctat tgtcgggatt gcgtagtaga tccccagcgg 6540
 aatgactctc ctagaagggg gtgtgtagtc agtaattgtc gccgctgcca ctgagacgcc 6600
 cgggtgctgcg aagacgccgg cgacgaagcg gcacactatc aacgaagcga tcccctgcga 6660
 cgccccgaca ccgagcgtga agagatccac catcggaagg gtaaggaggt aaacgaattt 6720
 gcggccgaat gtctcagaga gtggagagga gatcatcggc ccaaagcca gtcccaggga 6780
 gtatgccgaa agcgggaagca gagagaccgt cgttgacaca ttgaagtctc ttttgacctg 6840

ctcatgacca gaagaataga tggaggcatt gacagtgggt gcgaacccaa tcaagccgat 6900
gacggtcgtt gtcagagtct ttctcagcgt ggaccagttg cgcggattcc ccgggtcgtc 6960
gtcactgtcc cattcttggga gtctcctctg tctttcgtct tggtcgtctg cgaggtctat 7020
ttgcatcatc ttgatacttg agccaatgga ggtttccatc caagcaagtt tgcgagacag 7080
tgctggataa tagaggagtt cggctatgac tatccttagc cgagaccagg ccaacgatgc 7140
cggagatctg caaatgccac ccaattagag gcagcgttca cagctactgg acagggctag 7200
actgctcagt gagtccgtcc agcccgatca gctgtcagct ttttaaagtg cgatcggaaa 7260
cactcggctc actgtcaaga gacccaatgt gcggggaaga ccaatgtcac gcgtggggac 7320
gcaaagggct ggacaaatat ccggctctga ctcaaccacg cctgggtaac ctaagtaata 7380
aactagatac atcagttggt tactacatgt agcagtaaac ttgctgccga cgaacagcac 7440
ttttcagggc gagtcataca aactcacttt acacccttt cagggcactg tcagcagtta 7500
ttgttatgcc ttgcccagag gagggccgag ccgtaatatc aatatgatgt tctctatgat 7560
aacagtactt cgagatgttc tctaggatag acataatagc tgactgctat cactaggaaa 7620
gacacatacg gaagacaagt acctgaaagg tcatgatata gatcgaaggt acctcctggt 7680
tatactggct ggctcagcca ttatcctagt acttaatcta caagagaggc aagcaggtgc 7740
gattgccatt gtcgccgag tatctgggga agcagggctc cagagggttg gtgaaggaac 7800
ccagcactaa aggccagcgc caaccgagca aaactaccag gagatagata tcttaataat 7860
aattatattg cagccagaat tatctcgacc aaaggacggg cagtcgtgct gagcttatct 7920
ccacagaccg tgcttccttg agagtttccg acatgtaggg ctgagatcta cccgccccaa 7980
aaagagtagg cgcactatca gccctgtggg gaagactttt atataaacat cagaagcagc 8040
tagttctttt ttatgggcac ctgtatatct aaggagtcag tgctcttcgt ggtcttacc 8100
ctcgtcttct ctgcgattc atgtagagcc ttgtcctccc aaccgttggg tgcgaaacac 8160
ccaccaaggc acaatggtta atagtgcaga acgacttgta attcgcgctt tcaatcttcc 8220
cggtaaggct caggagtatg ggcgtcttag tccgcacgcc ctctgtggcg cagtcactag 8280
caagcaagct tctctgactg gttgcggcct atcagccgcc tgtagtactc cgttttcact 8340
agagaaccag cagggatgat agtggctgag ccagattgcc ttagtatcag gcagaataat 8400
aaacaaaggg tggcctataa atacgatcta tcagctgctg tacctatctc cttccacagc 8460

ctggccactg acacctttac tacttgctac agcacgcaag ccagccctaa attttgctag 8520
aataggtcca agccagccat catactcgct tcaatccagt ttcacagtct ctaacactac 8580
ctaattggcgt atactgacca gccagaaaaa tccaccatgc attacgacca accgccagcc 8640
tacctgaaa caaccttgac ggcgggttca ttagtaggcc cagctctaga ccgcccctac 8700
agctcacat 8709

<210> 1911
<211> 2090
<212> DNA
<213> Aspergillus nidulans

<400> 1911

aagatagcga cgggaaatgg cggggggccac actattctct aggtaccgat gagcgtatag 60
tgcaacggag tatccgggca atagccagat aaacttgcgg gaggagaaga ggatgcggcc 120
ccctgtccaa atggattcta gaaaaagcca gaacccgacg acgactgctt ggatatatgg 180
cggttgatct tcgagtactt gagtccgctg actctgaaaa ccgtgatcgc cgatgaagaa 240
ccagccggca gccgataaga agaagcaaat cgggggtgatc aggaaagagt aattgtttcc 300
aagatagggg atcagagcca atgcggtgca aaaagcccca gccgttcctg atacttcgta 360
gaatatatgc accaaagcat ctacctgacg tagtttctgc acattgccac caactagatc 420
ccgcgggcatc acacgccgga tcaactcaac catgccgtag gcgataccgg ccacgcaata 480
cacgggaata atgcatcag tgctcgtagct gccgtagtag tggaagtcac gttcaggggtg 540
gtgatctcga aaggccgacg ggaggaatcg accgcctgtg ctggcatcaa tgatgagaag 600
tagggcgctg agaaggccaa agaccagaac ggcgccggcc agaaccagcc gcgaagggaa 660
ccttcggata agcggggcga tcaggatgga cccaacacat tgacaggcct gggtcaggcc 720
accataagcc caaccggttg aaacgttttt ggggtggtgt tggtcaggta ggcgtcataa 780
tcgtagcgat tagttgcaag tgtcacgacg gatccgttga acgcttcaag cccgaacttg 840
tacatcataa taccctaaat gtatatggct atgttgcgtc tctccgcaga gtaaacaagc 900
gccaatcttg cttgactgca tcgtaaaagg gttccatagc cctggggcgcc ccataatcat 960
cttcacaag cgggagtaat atcgcaggag cgtgaagcgc tgctgccaga ggcttttaaa 1020
tgatgaccag tgacgaacga ccccgccgctc agagatgtag tgctcagcct gacattccga 1080

tagctgaccc gacattgctt cttccctgtg gtcacccac gggccctgcc tgactggcat 1140
 ctccggcgaga acagtcgaga accgtgagaa caaatcgaac cccaggaatc aagcacgttg 1200
 ggtgggtaat aacagggatc aggaattgag taatatctaa actttgctta gtgaagtact 1260
 agggagctct catggaagtc gtgtagaagc tcttgatgg ctggtatgca tcttggtccc 1320
 tcgtgggtta tggaggaatc gaatcccgcg agggaggcac gtggtggaga cctccagata 1380
 gggctagcgt tcaatcacgt gaggaactg ggtatgccc gcaatgcaa gaccaaacat 1440
 atggcgcttc agcatgggta tgtatccagc aaggagcaga atacaagaca gcacatttgg 1500
 atttcagtcc tatgatgtca gcgcttatgc accactacta cagtagggag gaaattttat 1560
 caacaagcac ggttgtttcg cgcgggatgc tgcagtctgc atgctgcgga cttgggtcag 1620
 ctggctctcc gcaccttcg ccaagactca gagccgatg aaggagtatg aagtacataa 1680
 tctctgccag cgtcaactat actatgatca caataccagt tctatgacga tgacattgac 1740
 actatactag aatcaacaa tagccaactc attcatgcat ccatccatag caaccctgtg 1800
 cgcgtccgaa tatcagtata caaatatcaa ctggatgagt ttaccctta aacaccggcc 1860
 gattttgaga tgacggggaa agaacacata ggcaggaagc gaaggtaatg aaaataaatt 1920
 ggaattgaga aacctcagt aagactatta caatttgggc taagtgtcag cttggtctta 1980
 cgatatctta tcatggttct gccgttctgg gcagaacata ctagagagat caagactttg 2040
 ctgcctcagg cgcgatcacg caacgccgca aacaaccgct ctttccgctc 2090

<210> 1912
 <211> 1762
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1912
 ctcactttcc agctcgatct cagctccaat cgtctcgaaa cagtatcaac accctccccg 60
 ctaaccaagc tgcgggctct gagagtttcg gacaatcgcc tgcggagtct caatgttggc 120
 ctattcccag cgctcactct tctttacgca gaccagaact gtctatccac cattttaggt 180
 cttgaccaga gtcgtgtctt agaagtattg tcagtacggg aacaggaaat tccggatggc 240
 gaatcccttg atttggacct gggattgctg aaggatatcc ggaaggattt cttatcatca 300
 aacaaacttt caccacaaac actttcacca tccgcgcctc ttctgagcct gcaacttctc 360

gatgtcgcaa cttgtagctt gaaagcgctg cctatggact tcgccacaaa gttccccaac 420
gtcagagtcc ttaacctcaa cttcaactct ctggagggag tgaatgcatt gctcggcatg 480
aactgcctct cgcgggtaac tgtgctcggc aactccatct cgcgcctccg agatatctgt 540
caagtctca gtcggatcgg ccgtacaagc aaatcaaaca cttgcacact ccaaaaagtc 600
gacatccggc acaaccctct cacagtcgga ttctatccac ctgccttaac cgggagcggc 660
aaaccacaac ccagaaaatt gatttcaaac gagggacgac gttccggcca tagtcatggt 720
ctcgacttag atctgcctct catggagcag ctcaatcgcg aaggccagct gcttcaagtg 780
aatggcgaag acggcgaaga tacagcgcac gctgaccccg aaatcgatga tccttacct 840
cttccccag cagatttgtt gttggacca aagcatctag ccattttaga tcaagcaaca 900
agactcaagc gtagagtctt cgagcttatg ctttatgcag gcacaggagg agcgattaaa 960
gtccttgatg ggctggattt ccggccggtg cttgagcctg gttcagatat gaaccaggct 1020
tgggctaggc ttgaacgact cgggtgttctc agaaagaaag cgatcaccgg ttgatcattt 1080
gattcttttg attaccctt ttttttcaact tcaattctca atatcctctg cttttctgca 1140
tttcttatct aggacggggg tgaccccgat atccctcgaa cttttttttt tcttatttgc 1200
ttccgaccat gttgtgtgta ctttgagggc tggttgggat ttcttgatgc agcgttgctc 1260
ttagcgagtt actttgatcg tacctcggcg tttcgggatt gattgacatc tgtatctgcg 1320
tctctttgtt gctgttggcg tcgcccggga atttgggtgc atggatgggg ttaggtaaat 1380
agcgagcttg tccttaacat agccacttga tccgcattac tggcagcatt tgcattttca 1440
acctgacttt tactgaattc tctattgact gtcactcaa taggggtggg tgtgtaaaac 1500
gggtaaaattc cttgctggag cttggttcta actagcggac tcttaagcct tcgtgagatt 1560
ggtgaaaatc caatggcaaa gtcttgtctt agaactccga ctcgaggtta ctgagttgcg 1620
tgccaaactg tgcccttacc atttccatat aagccttcca cttgtgatgg tcacccatcg 1680
tctcagcatt agggaatgct ttggacaatt cgcgtgtaat ctttagaaca cccgttgacg 1740
cctcctgcgc cttctcgatc ta 1762

<210> 1913
<211> 3558
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 1913

aaaattgtcc gaaaagcatc agaaacgggc ttacagggc tccaatccgg ctcggttgag 60
gaatagtcga tgcctaaacc acctctgcta aggaagtctg cacgggctgg aagtaccaca 120
tgagagagcaa ttagacgctc aatcccgcctc agcacgcttag tcctctcgtc cgtatcaagt 180
ccagcagcac gaacgcagtg tagtagcctg agggcgcgct gggaacaatg agcagcaaat 240
ccccctaag aatataaaaag tcagcaaaca cacgcataca tcaagttgag agtccgcata 300
cattaccaga tcctctgca ccacctggc ggtacgatct ccactcccag atctccaaga 360
gagcaggaag aacgtagaac aaatgctgca actctgtcgt ctccgagca ttggagaact 420
gagtaatcgc gagagaagca agggtaaag atttgccag cgtaattgcg atcggttgag 480
gttcgcccc ctgagatgag agcgagcagt ttcacaaacg ccgtcctttc 540
cgctaaccag tgtgaccaag ctatagatgc agtcaaggag acgtgtaaaa gccaaaaagc 600
atgagacagg cgttcttggc tgctcgtcaa cgtccatcga atcgtgctca atcccattgg 660
ttctcttcgg ctctgtgccc ttctgctag atccttact caaagtttgg ctggattcgg 720
aatctgaagg cagtagctcg tttgtcccat ttccagatcc agatatgaca tcgtctgtta 780
agtccgtaat cgcattgtct aggatgccga tgaacttctg gtctttaagc gtcgacgcc 840
atgtcttcgg agaaatgagg tcaatcagct gccgaacaa aagaaaagat gcaggctcga 900
cccgatagtt ctgggcagcc ttgagcttct ttaataacca tcgtaaaacc cattcttctc 960
tcggggccgc gtggattggg acatgagggg ctcggttgat ctccggatgg ctggcgcata 1020
acgacaagtc gagtccaata atttgggcgg cctcgttcag ctgaatgttg ggagacgcc 1080
tacccttctc tagtcgaagg agagcctctt gcgaagggcg cggacgctgg actatcacgt 1140
tagcacagtt agatatggtt aaaggagcat gctctgtaga acgcacctct ggtaacgaag 1200
gcatcctgga ggaggcaccg tcacttttcc gtcttccctt tccccgattc taccggggcc 1260
aaaaccacat tgccaagcag aaacatctaa cgctctccgc ccgtgttgat tgtagtctgg 1320
actctatgca tctcccgaga aaaaaagtgg aaagactgat agcgggcagg ccgctaagcc 1380
taatttttcc gaccgccttc ctgcttctg ggcggacccg aagctcgaaa accgccgctc 1440
ccgaccgact caagcctgac gtctcgtcac tactcactca atccaaccat atttacctag 1500
tatcttggtc cattegtgtg tccagcacag gtaagtgat attgtcttca aatagccttc 1560

tcaagctaact actcgggctc tagatcgctt acaatggccg actcaagcga ctcccagcct 1620
gtcgccccgt cgaccaagct tgtcagcgag gccttgctta acgagaaggt actaggctta 1680
ccccgtccgc gccgttgatg acgaatatga tttctccata attctatcag atgctcaact 1740
ctggcctcgc tgagaattat ctctcgcac tataacaatc atagaagcgt cggctaacat 1800
gtgccttggt aatcattagt gggatcgctc catctcttc atgattattc gctcttccct 1860
cggcctgtcg ttcgggtgtg tcttctcagt gctcctcttc aagcggaggg catggccccg 1920
gtgggttggt ttgggtttcg gtgctggacg tgcattggag gaggctgacg gtatgttccg 1980
gcataatagt aatgatccag tgttactaac tccataatgt agcctcttcc cgcagggggtg 2040
attccccggg gagagacgct ctgcgtaggt agacggactt tggcatgcag tctgaatttg 2100
tatgatacct gtatagctgc gcagataact gccatggcat ggttttttaa gtttagaaga 2160
aattctagac ctgtatttca acattgtctt tcgcaaacca atgattcttc cttatctgct 2220
cattgggttg ctttgtcata ccttaagcac gtcaatctat ctgagaacag gggactactc 2280
attagactcg cagattattg agtggcgttg tcaagtgtac agctagtctt attttcacga 2340
accttctgtc gcccggttac gaattatgta ttttcaggca gacacaagcg caagccgtgt 2400
ggaagtcctt cgtgcgggct gtaccagtgg cttgatccac tcaaaggat aaaatctaag 2460
taaaccagca accagaaaca cgtagagaca aatgcagatg aaggacaaca gcgtactcct 2520
tgcgcttcgc tagacaaaat ctgcaacagt ttggactggg caccgacacg ctagacgcag 2580
gtaaacaaaa gtagttgagc tgtgcggata agtgaaaaat gatcgatcga gtaatacagg 2640
aggggagata gccacatatt gaaaagagga tttgaggtgg aaaagtagcg gaaggaaatg 2700
gaggctagct atgcggtggg aaatggggaa agtacacaaa cattaagcca acaaactccg 2760
aagcccgata tgcaagggtg tcatgatcat gaatcgtcca aagatatccg acgtcgagta 2820
caaaagggtg gagaaaggac ttggtagaaa ataaaccaag acaaacgcg ttgccaagta 2880
ccagtacctg ggaaagctgc tgaattcaca gattgccgtg tgttaaagc ccaaggcagc 2940
tacagctggg accacattgg caattaccgg cctcaccggc acaggcgcca ggcaggccaa 3000
cctgatactc ataggtgtaa taagcatcag gaaccatgag gtggtctgca gtaaaggact 3060
caataccctg agcgtcatgg ccattatcca aaggagtatt accggtgcca caacaagact 3120
cgactggcac attctcagag ttagtctcga cttcagctaa cgtctgggtc atttgccggc 3180

cgctatattg aagtacgttg gcatgagagt tctgctgac gaactcgttc ccgttcccga 3240
aggettgcga atcctgagca atgatgcgtc ccacctcttg aatatgttgc acggtaacgt 3300
cgttatacgg atggtccggg caagccaagc aactgcattg agggccacaa ctgcagctat 3360
gggggatacc actggtgttg tttgttaaag tgtgctgttg taaactgggg gaancaagat 3420
cggaagcctc agaatcagtc tgtgccggat gcacatgctc ctaccgatg ctggttggat 3480
ttattagttt ccctgnggtg cgggtccgga caaggcgggt tgtccccgct ggtgccggtt 3540
ctccacaaca atcgtgcc 3558

<210> 1914
<211> 1504
<212> DNA
<213> *Aspergillus nidulans*

<400> 1914

tgggggtccc ttgacaaaac gttgttaaaa gtagcatcgg cgtccaagtt ccctgtaaag 60
cgggtacgttc gcaggagata accgctatat cactgctctg gagcgacagt gaattgctcg 120
gtcccacctg caccagagtg gcggtccgat tgaaacccta cagcttatat tagtatatcc 180
tccatcacct tcacagcccc cgtaagcgga accgagtttc ccgatacgct gcacatgttt 240
gcatgggata tgggaccact gaccctaagc cgagtctgac tgccttcaaa gctgacaggc 300
gattgcagta atggggcgac gtgcaagtcc aagccgccag ggagatccac ttgagagccc 360
tcgaacaaga atcgctcttg ggagagagcg ggatcctcag ccacaggagt ttctgacgac 420
agcacggtcg agccacagtc cggaacggtg gaaagaaggg aaacaaggaa gaggagagaa 480
agagggcagg aaagaagagc gtgcgagaac gaggaggggc gagagagaaa aggacgttgt 540
gggagcccca tggagacggt gatggagtag atttgagaaa ggaatggatt tccccacggg 600
ttgcgaggct tacggagacg tcggagggtg tggggaatcg cggaagatca ttaggtcacg 660
gatctcttga gtgggacaca gaagaagcaa agaaaggctg aaaaatcgag taatccacgc 720
gcttccaagg cctgcccaga ctgacgttga tatcaccatt agcagagctg gtcgatcact 780
acggtcgttg cggttagttt catgcgatcg atgccagagc cgggtccattg gggaccggat 840
gtgcttgtgc agagcgggtg agcgtattcg tacctggtag taatccgttg aaggatcggg 900
gcgagcaat ctggtaagaa tatggtaaga ataatttaat atgagccaga cagtcccaga 960

caaacgacga cggatgagtg gagggaaatca aatgccagga tagccgggct gacgatagtg 1020
 agggggccaga gatggatcga tggttggatt atccccgggg atccgggcaga tggaggggct 1080
 ggtgacagca aatatacgcc tcaactttca actctcgaat tgacttcgaa ttgatcgaat 1140
 tgatcacatt gaaggcctgg tcgacgtctg acccaccgcg ctgggtttaa tgcacgagac 1200
 atctttatca aagaaaagag ttttcacaga gttcagaacc ggaaacgtga tgaaaacgag 1260
 catggccgga tccagagtct gacatctccg gcttacggag tcctattctg gttgctctac 1320
 ctagatggtc tgtcccatcc tggcgacggg gcattccttt gtttctattt gaggctttac 1380
 tgatggcttg ggatggcctg ggcatactgc tggcttcac gattatttac tactctttat 1440
 ctgacagaca caccctagcg agtggcgcaa cggggtcgga tgctacgcg aaataggctg 1500
 ttag 1504

<210> 1915
 <211> 3636
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1915
 cgaggatattc cgcaatctct tccgccctct accacaaatt cagccttaca accttcagtg 60
 ttaataactag aagtcacaat ggccaaaaca atcattgtca ctgggtgcctc tcgaggtagc 120
 tttacctaca tgctttcaag cttactccaa ttgcttgagc taacgattca ggcacgccc 180
 tcgccatcac aaaatacctc ctctccgccc ccaatcgca caacgtcgtc gtgatcgcg 240
 ggagcgtcga gcccctccag gccctgaaga acgaatacaa ggaccaagtc gccatcttaa 300
 acggcgatat ttccgacttc tcgctcgga cgagagcagt cgagctcgca ctgaagagct 360
 tcggacgcat cgacgggtctg gtctgaacc atggtatctt gggacagggtg ggcaaaattg 420
 cgaccgctaa tattgaggag tggaagaagg gctatgatgt gaatttcttc agccttgtct 480
 cgttcgtgca agcggcactg ccaaagttgc gggagagcaa gggaaagatt gtgtttacaa 540
 gttccggagc cgcggtctct gcgtaccgcg gatggggact ctacgggtcc acgaaggccg 600
 caatgaatca ttgggctttg agcttgggtg aggaggagcc agatgttaca agcattttta 660
 tccggccggg catggctgat acggaaatgc agagggaact gagggaggat catgcgcgc 720
 ccctcgagcc gcagggtccat tctaagttta cgacagtgc caacgaaggg aagttgctga 780

agcccgagca accagggcat gtcattggcca agttgggtgct tgatgctcct aaagaactga 840
 gcgggaagtt tctttcgtaa gtttctgctc aaattgctac ggatagtgtc aatgggagga 900
 tcaggtggaa cgatcaacaa ctgcggcct tccaggcgtg atactaaatt actgtagacg 960
 agtcagcgag actcttatta aaacaagcca tagaacaaga cagcagaata gaattgatca 1020
 gccgaaagat gaaaagcagg tacatttctt aagcattaga tgcagcgcac cttcatactt 1080
 agcatggaat gtagtttgtt catcacaaaa atagaagaca gaaaaaaatg tcaatgccgt 1140
 accttttcat gctagctacg gaatggctgc tctgcttgcg gatgagcaag gctgtcctaa 1200
 atgcttcaaa ttatcagcaa tgctcaagta ggtgctgagt ggcataaatc atgaaattgt 1260
 ggtatcagtg gtccgttttg cttggacagt gtacgtcacc atagaatggt ctgatagggg 1320
 cgacaacgat gttcatcatg gtaaaaaagg caagcagagt cgattaaaca taccttgtca 1380
 gttagtcaag agcataatgc tgaattgtag atatttctca aagaacatca tattgagatt 1440
 tctctgtggg agatgaagaa aaataaagcc gaaaaaaat cgcagccgaa gataaatagc 1500
 ctgagcgggtg ggtttctgcc tcttggttaa tccgttccgc tcgtcgcac catatttgcg 1560
 gataaagagg gtccgtcagg cttacgctcg gacaaagagg caacgtaaac aggtgactcc 1620
 atactgtcac ggtataatct atcgccgctg cagaagactt gctcttgca tccctttaga 1680
 caaataccga aatcatgtca gatagggagt tcagctgtac gtctttcgcg tcttggcgca 1740
 acaatgatac tagctaacac ggccacagca aatgacgact tgctcgcttcc taaagggtgtg 1800
 aactaccttg cgatgtttct tcgcgagcct cgggtgtgctt ctaagtcgcg gaactgtgcg 1860
 taatagtcac agcgacggtc cagaaaatca tcaccgagat ccttcccccc tcgtccggac 1920
 aatccttctc caaagacgcg cgcgaccttc tcatggaatg ttgcgttgaa ttcacacccc 1980
 taatctcttc cgaagcgaac gacatcagcg aaaaagaggc caagaagacc atagcgtgtg 2040
 agcatgtgga gcgggctcta cgtgacctcg ggtttggcga ttacgtcccg gatgtccttg 2100
 cagttgcgga ggagcacaag gagcagttga aggtatgctt tctttcccca ggaatatgag 2160
 acatttgggg tgacttctaa ctgtgtctgc agtcgcggga aaagaagcag agcaagatgg 2220
 agcagagcgg gttgtcagag gaggagctgc ttcgtcagca gcaggagctg ttccgctcgg 2280
 cgacggagaa gtatcatgct gcgccggagg gtactgagtg aaggaatatg gtttattcat 2340
 gcagatcgta tacctaata gggctcgtgc tggatcatgac ggacggagtt tataactaaa 2400

ggggttatgga gttataggct tctatcatag tacacttgag ggaaatatat ttatgtcggg 2460
 ctcatthaacc caaatcacca atcgtgtatg ttcccgctccc gggtttcac ttcattcaat 2520
 tcatgtagac ttcaagggtta atatttcgat atattttgct tttgggagac cccctggaga 2580
 gctccatagc agactgcacg aacaagtatt agagattttg atttcgacag cagattccat 2640
 tagcacgaag agcacagttg tatacatatg gaacaacatt ggaggtagag attaagggtca 2700
 gatacaatgt cgtttcttac ctgaaccgca ctaaccgcat ttggcgctccc gaacttcage 2760
 ggcgaatcgc agcaaacacc gcggaacttc aagactatca ttgaaagcac agcctaccca 2820
 aactaaaaat gccacctttt aaggatgagc atatcttggg atgctcccta gatatttact 2880
 gtttttagtag gcgggagaaa tgctaattct gccagatgat tgcgccagga tcgcaagtga 2940
 ccctggcgca actcggcctc cccgagtcgt tcacacctgc tcgatggcgc ttcccgacgc 3000
 gaatgttccc ggggtgaaaag aagggcgcaat tcgaaccgta caagatccgc gagaggcgac 3060
 aagaagttaa aattgccaat ggctcgaccg cccctgggga gaaggaagac gtcgacatga 3120
 aagaccagcc tccgcaagaa gaaaggaagg agaatacaga cgcgccgaag acggaaaaaa 3180
 ccgacgagac caaggcagaa aacaccaata acaccgagaa caccgagaac acgggtgaag 3240
 aaggggggtga ggatgggtgag aacggccaga tcgtagagga ggttttctac gaagaagacg 3300
 tcgcgtctga agaaggggag atctacccta tcgagaacgg acgcatcggt gactggccgt 3360
 gctttttcgc tctcttgacg catgtgtata acacgctcag cccgccattc catacgcta 3420
 tcatgcttat tgccgaaccg gcttgggtcat tacgggatcg ggagattatc actcaatttg 3480
 tgtttgagaa gttcaagacg cctgcttttt gtctgacgga ctacgcgatt accgtgctcc 3540
 tacggatacg gcgtcggcac tgcaactggt gttgatgttg ggaagaacaa ggtggacgtc 3600
 accgcggttc caggctttgt ggtcaaagaa catgga 3636

<210> 1916
 <211> 3107
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1916
 cacaatgtat atgttatgac gggttatggt gtactaatgg ccattggtaa atacgcttag 60
 tgtcaataat taactgatac gatccttact acttgttcat aattgccac ggagaagatt 120

agactttctgt acacgataga gtacaagtgg tatattttgtg caaggattga ttcgaaactg 180
 ccttgaaatc gtttcctggg ctttgacgcc ctatgagcta aacaaagttc tccgcttaac 240
 gagtctacac ttgaatccaa ctggcgccag ggtctcactt gttctttatt atttttgaga 300
 ttcgcgctgg gacaaatata gccttgatcc ataaacttga tttttccgt atttgaaaaa 360
 ctgtatagaa cagtataaaa gtcacggact taggcctgtg agacttcgta caaatTTTTCT 420
 acatgtttta ggaactgcat acagactaat caagcacaag tcgatgcctg acagacagcc 480
 gatattctatg aaatagatct gacttaggta tatgggtctct gagaaccccc ttcgtgcgcc 540
 cggtcagcac catgtccaat gactataaag agattcacgt tttctcagcg cgccatacct 600
 tgtgtagtct atattctcgc ataaagaaat ttttgggtgtt gacaaagtct tacagaacgc 660
 acagaactct ctatagtagg aagtagatgg cttcgcggtat acttgaaact ctgccaaaca 720
 cctacctacc ggcttctatc catctagcaa gcacagttgt tgattatttc cccattccga 780
 cacatctcta cgctgcatt cctcccaaa atagttaggt gaaactcacc ctcaactgct 840
 ggctcatcag caccgaagat ctccatcaat ccgcacacaa ataaaaaaaaa ggttgttgca 900
 ggatattctt gacgccattg gtaattgact catatttatt cttgtcgagt tatagatttg 960
 aatcgaacat agtgtggata tttgcggtct acgtccagta cggaaatact ctctaagtc 1020
 caatatccct tctctagcta taattctcag actgccgaat gcttctacgc aaattcagtt 1080
 acctcaaac caactctctc ctcacctctt tgaacgagca attttttaca ctcatcccaa 1140
 cgtcatcatc tccttgtcgt acccagtaac agcctccata ccacttatc aatcctttca 1200
 aaccactccc atgccaaaaa ccctacatgc acaaatccg caaagtcag ttcctgcacc 1260
 tcaaagtata cacttccctt tgttgtttgt tgtaacaagg caacaactgg ctcatagcct 1320
 cagccatatc cctggaggtc ctcttgatc tcaatctcac tagacggtt catttccctg 1380
 actgttttac caagtttoga tcccaggtc cgtacaaagt atttaccacc cgggggtcga 1440
 ggatagcgag gatacttgac aaaaggagcg gaatgttctt ttgtatcaca gtggacatgg 1500
 cgtcattgac ctgatcgga gattgtggct ttttgcgcct gctgggaaga tggaggggtc 1560
 ggggaagact tttcaaagtt ctgggcgata gggagagaac ctatcaatgc gccatgcgga 1620
 ttccttgtct gataccagcg acggatgcat tatcacgggc agtgccgggg ggctcggtt 1680
 gctgatgccg cttggtgcgg ctggaccgcc aggaaagaga agagagtcgc gatgtatggg 1740

tacgaggtgt atgatcgtat gatcgcatgt atgggaagtg cttgtaatgt aggactggcg 1800
 gaacttggtg ctgttcgccg atcaagatgt tgaaggctgg gggagcgag aggcgaggtc 1860
 gaagaggtga accgtcgtcg tgcttgatgt agtcattttg ataggcgatt tgaaaggcga 1920
 gatcttggtc agaatggtag gacagattaa aattcttgaa atccgtttcc agcgggcgaa 1980
 ccaagcgctg ccgccgaaca ttcttatgta gtgtagcatg gtctgacctg gctattcatt 2040
 tataaccctg aaaaattcgt cgtattatcc atcatataat agctccaagt acgcgcttaa 2100
 gattctatca atggacaaat ctccgccgtg gttagtagat cggatagtct attctcccgt 2160
 taataacaaca gctcttcacc cagaagggtca accaacttcc ttcttaatta aacacaagcc 2220
 ttatagctgc tateaccttg cttgtactca tcaaagtgtc tgttgcatat tgagcgccag 2280
 cactcgggtcc actcgttcac cttttgagtc tttccctggg ccattctttt ggcaggagtg 2340
 cacgtttgat atatgggtta atacattcat gttcaacata tccatactag tctcgggtcgt 2400
 atctcataag gacaagttag gcttcctaag aatatgaacg ctggaacttt atgataattc 2460
 acgcttcgcg gccgtcccca agaggcttct agcaggcagc tctgtgaccg tccgctcatg 2520
 gcagtcaata gcctcatcca cttgtaattg ggtaaagttt gccattact cggaagataa 2580
 gtagtttctt tcaccgctgc aacgggatta ggtattatcc ctaaagacaa cataatcgac 2640
 agattcgcaa tgaagctaga acctaagacc atgtatcact acatgaggaa ccatttttat 2700
 aatacatttc aatgtaatag aatttttcca actgtactgg cggttctatt ggtgctaagc 2760
 tcgcggttct gaacttgagt gtatgtcgta gctgcaaggt gcctgcgctt ggactaccct 2820
 gcagggaaca gaatcaattc tatgagtgtt gattcgtatg catataccta tatttgcgaa 2880
 atataccta actcaattcc ccattctttt gcaattgtaa ttagtccttc gtttgtccgt 2940
 gtctgtgcc tgcgccatgg ggcggttcca agattgttaa gaagccaaga ggttctttat 3000
 atatttatca acgcgttcca gcccaaaccg ctggttctgc cgcaacaaac tgaacaagtt 3060
 ataaaaagcc atataatagc ctacaattta cctctagaga taaccaa 3107

<210> 1917
 <211> 2529
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1917

aaggcatatg tgcggcaggc cttatagtta tacgtcgtaa cgatcactag gccacctgag 60
tctctggaca agtcaacccg aaggatagga cttagctctc ttccgacctgt gccgcaggat 120
cgagcatctg cgccatctcc ggccacgcct gataaaagat tggtcgatgc ccccggaag 180
tcagcaaggg ctttttttgt aagtaaaaaa tccagggttt cccgagctag gaccgtcagg 240
atctaaatgg gtagacttca gaaggctgtg caattcgggt cccacataat tttcattcgc 300
cttcacagaa ggctaaggcc attcatagag aagtgagtat tgggtccgac ttggcctgct 360
atctgccatg atgcgcagac atatgtggcg caaataacct gctccggagg agatacccct 420
ccgagggctg cgtgtcgaat tgtctgactc tcgagatgat tccttccggt ctctggcaat 480
aaaagaccg agagaagcag ggatatcttg gggttgtagt gaagaataga ttgaacccaa 540
ctggggaggt catgaagcct gactcagtcg catccaagtc gggtagccc tagacattgg 600
acctagatca ttcaatatcc ttttatcgcg tccgacctca ttactgcggt caaacccagc 660
ctatttatcg actgccttg gtctcatttg ccggtgcgg cattactttg gagggaatga 720
gggattgtcc tatgctgaaa cggctctctg gcagtagttc tgagcgaaat aagtctggca 780
tctctttgac gccaccacct ctgcacgtca atggccagta tccctgtgac attgagagtg 840
atctctgtag aagctgcaag gatcagtaat gtatggccac gacgctaaac atggatttgc 900
ctcccctgta agagcctaac caaaaggatg gagtgtgtcc gccattcca cgcagttttt 960
gtgtcgatag cgtatcggtg agacattccc gaatcctcaa attttctagt ttgcagtcga 1020
ggcttgcatg ggcggacaga agcatggtgt agctgcgcgg acgacgcgtt cctgacatcg 1080
acaatcgagc atgatccatc cctgagtatg aggcgaggaa ggctgcccac tccccgcaat 1140
cccagggatt gacgtttctc agacggccct tacttattct atcacatccc cactatatgg 1200
actctcacga tgcggagtcc cacttgttta acatctcttt taatctgtgt tgtttgtcca 1260
caagaacacc tgccgttaca atggcgactc ccggcctcga tgttatcatg agctggacgc 1320
caaatatga ccactctcat gagccccctg atgcggtcat atacggtgtc aacatcccac 1380
tgatggttct aatgaccata ttcgttgcgg gcaggtttct atcgcggaca ttcttgtgtc 1440
gcaacgcgct tggagtagat gactggatga tgcttgttgc ctatgttggt gccagtgtcg 1500
gctttggacg tacatcgtga gctaactctt gctaaagata ctggcaatgg gtctgtcggc 1560
gtgtcagcta gtcgagccca ggtatggtat tggccgccac ttgtatgacg tgagatatga 1620

ttggtaccct gcactgggga aaaaaaggct ctagagcccg agtgaacaat tcaggtatta 1680
 accactgtga agttgacaat cgcaatccaa gcactgtttg cgccttggtc tgcaataacg 1740
 aagatatcga tatgtttgac ataccttcgc cttttcccg taaagacaaa cagatgggtc 1800
 aactatattt cgatgggtcat tctggcggga tttggaattt caacgaccgc aactatgctt 1860
 ttgcaatgca tgtgggtagt gcttgccatg ccgtgacacc gtacgctgac gcaagcagac 1920
 cgttggtccga tctctgggca gtcttcaagc cgatgtcgca gaaacaatgc atcgaatcag 1980
 aaaaatttta cattgctggt gctgccatca acagtataac cgatttcattg gtttaccttt 2040
 ggccgattca ctacctctgg aaagtaaaac ttagcttggc gaagagagca ggtctaataca 2100
 tctgttttcg cgctggcgct ctgtaagaaa gagacgactc ttcccaatcc attgatactg 2160
 ctaattccaa tcaaggattt gtattgcggg tgtgggttcgc attacctggc aggtcaagtt 2220
 cgccaattcg tgggacacaa catgtgagtt ctcttcggca atgagcctca tttgtgcact 2280
 tattgatgta actgtctaga caacggagcc atcatctttg ttattgtagc ggtggagtg 2340
 aatcttggtg tegtctgcgg gtgtcttcca ggggtcaggc cgctgatgac caagatcttc 2400
 ccaagtttga ccagctcaac ttacaactcg ggtcgaggca agaacagtca cgttcaggtc 2460
 agctttaaca atagaccggt ggggggatac cagcactgac attcgattca cgttagggaa 2520
 gaagtggac 2529

<210> 1918
 <211> 2503
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 1918

acgttgcaat atcttcccta cagctgccac atttccacgt tctctctttc gttcagacgc 60
 agctgctgcc atatctttgg atgcattctg cgcagcggat gccttcgccg cttgcctcga 120
 tgccacattt gcagcctgtt tgcttgccgc tttcacagcc tccttcgtgg atttgctcgt 180
 tcttgacttc ttctcgtct tctcagcgtt agccggcgag acttccttgt caggctcgtt 240
 gagaagcttt ttcgattgaa ctttttcgga tttagcttct ctctctgac tctgtcttga 300
 tgatttgctc gcggcttctt tagctttggt tgcctttttc tccttgatat actgtactag 360

nggcgtggat ggtactgtct actttttgac ttctccctcg gcagaagttt tgcgcaggggt 420
 aggttttgta atggggtgag tgagactctt gagaaaatgg ataaattctg ggtcctggtc 480
 aatggttccc aatcgagcat ctttgcgaa acgacttcca ggtattttgg cgtacgggtgc 540
 aaactccaga tttggtgggc ctaggagtag cgggtcgttc gcggtgttac gggcatccaa 600
 gaatgatgtg ctctcacct tatcgagag aggggcaatg tgttcgcttg aaacgacgta 660
 gaggtatgct cgggaaggcc gggaggggtt agcaggactg tggttcccat gactgttagc 720
 tacaacattt atggattaga aagtaggaac tcaactcttc gagaccttc caggcttata 780
 ctgagcccag ctactctgc ccgtccaag ttccattcc gcgcccagcg cagtttcaaa 840
 ctctcctga gttaggcctg gaggtaaacg ccgcacgagc agcttcagcc gcggggctac 900
 tggtttcgga gccttcttag gtgctggtgc attcttttga gtcgcagacg caggaatttg 960
 aaggacgccg ccgcttgatt tggacaggat ctgagtcag acggtttaga atcaaagtgt 1020
 actttgacct aaactccgat gggagcgttg aatccaagca gccgcagagg tgggctacgg 1080
 aggtatcgcc agaaaagcac ttctcaggc tagaagtaga ggatggcact agggcacaaa 1140
 gtagcaaac tgagccctc agatgacct cgattggaaa aggtgcgctg ctgaaactcc 1200
 ccgtgacca gacgacactg cttaaaggat ccacgcacgt gactgcgaat cggcgataac 1260
 cagcagggct ctgcgggga gggagagagc acgtttatgt gtgcacggc tatgctgcc 1320
 atttgagctt gatattgctt ctcaacctc gtcgtccctt gtacaaattt tcaactttctc 1380
 tgattcctat catatttgcc atgactgata gcaaggctcc tcagccgggc ccagcgaagc 1440
 tcaagcgcaa tgcaggaccg gacgagtgt tagaggcagc caaggactgc aaatacctct 1500
 cggagtcaca tatgaagcag ttatgtgaga ttgtgaaaga gtatatgatg gaagggtcgt 1560
 tctgcgcgag ctagctgaaa ctattttcag atgctgagat ctgtgcgtct gcctagagtc 1620
 caatattcag ccagtatcga ccccgctcac cgtctgcgga gatattcacg gacaattcta 1680
 cgacctctta gaactatttc gcgtctccgg tggatgccca gacgcgtcgc tagctgaacc 1740
 tccgaagact tcttctgctg tgattacatc ggacgacatt gaaccgcccc ccacgataac 1800
 agatccagag ttgagaaaga agttggggaa gccagggaca gcaggagatg atgatgatga 1860
 cgatgatgat aataatgaga atgctggtca aaaagaaaag tcttcgagtt cagggacttc 1920
 ggaaatagct gtcaaccgca acttcgtgtt cctcggcgac tatgtggata gaggatattt 1980

cagtctggag accctgacat tattattgtg ttgaaagcg aagttcgtca tccagactgt 2040
 ttttgatatg ggtgtagctg actattgaag gtatcctgac cgggtgacgc tcgttcgtgg 2100
 caatcacgag tctcggcaga tcacacaggt atatggtttt tacgaggagt gtttgcagaa 2160
 gtatggaaat gcttcctgtc ggaaggcctg ctgtcaagtg ttgatttta tgacctggg 2220
 tgctattatt gatggtcggg tcctgtgcgt ccatggagga ctaagtccag aaattaggac 2280
 cctggatcaa gttcagatcg tcgccagagc tcaagagatt cctcacgaag gtgcattctg 2340
 tgacttggtc tggtcagatc cagacgatgt cgagacatgg gcagtcagcc ctgaggagc 2400
 cggtaagcca gcaagtatgt gcaaactgtc tccagtactg atactcctta gggtggctat 2460
 ttggtgacat ggtgccgacg agttctgcat gtaacatttg acc 2503

<210> 1919
 <211> 3258
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1919

ctgaatagaa ggagaccaca aaaatgaaga acaacatata taggggttta aagggttatt 60
 ggggtttgtt aagttttaag gcaagaaaac ttggggttta taaaataaa ggatatttag 120
 ataaaaatta gattcccatg gcttgaaca aaagcacagc attgtagtgg gcaatttata 180
 attaagggcc ctacatagac gtaaagaaac agattggtaa tgtgaacgaa acgaccgctc 240
 tggctttcag gaaatgaaag attgttggtc atgaagcaaa ctcaagagat atgtggtaag 300
 tccaaaaagt accgcgattc cagagcttgt cgcacgaag cggtttcctc cagttttcca 360
 caccgcaat cactgtaggc gtcacgcagt gactttggcc agcatttgga atccatttcc 420
 aatattcatt tactgatgat gtgtttttct gcttttaact tgcttcctc tatctctcct 480
 ctctcgcgtt tgcagagcaa aggcgttggt cccctcatca taactgaata tacgcacctc 540
 atgggtctga aatgtcaatg tgaggttttc atggaattgg tgtgtatctc aagaacgcat 600
 ggaatcacac gggataggtc ttgaggacta tggcgttttc tcgaggtcga cttaacagac 660
 caggtggtgt tctctctctt tgctctctac cctgaaatat acccgggcgt ttttaciaaac 720
 caccattat tcattacgtc ctcatgttca tgtactgttg cattgttttc tctctattt 780
 ctggcattca accatgattc ttcgtttact tgtaaacatt tgggtataga tgtaatctgt 840

aactctgctt ctagttttat cgtatcaagc ataacgacca gttgtcctag atctcctggg 900
tatcaacctt agcaagccct gtagatgtag ccaagtttta actggttcac gtgaactcca 960
cgagctaata gtagccctag gaaggtagca ggggcaccct gcatcaggca acgcccttaa 1020
tttgattacc gaacatctat ggagtattac cccgaggtca tagccacata cgacgttgat 1080
taaaaagcgc atgctcgctt catcgttttt aattttccaa tcgttattgg aggaacgacca 1140
atcatctgcc ttaggcgtag gtagttgaag cccctcgcac ccaacgaagc ttccgtgccc 1200
tgacttcgcy aagtcaagac gataatagcc tagtctacct cgaatgaatg agggagattc 1260
atcccagttc ttcattgatt gagtatcgtg ctgtttcatg gcctgttttc acgccgccct 1320
gagtcataga gcaagcgtcc gtgctaacgt ggtacgatat aagccgcact gattcgtcct 1380
cagaggtcat caactacgtg gcgcctactt ggaaacctag atgaactgaa tgggaggggtg 1440
ggaaaagatg tcgctttgta ggcttttcta gccgtgtgcy cccggaagac gtttataggc 1500
aggataggac cgagggagtc agcctggata ggcgagatac ctatcaagga atcagccagc 1560
tactgatcca tccaacccat gtctgtgact tgccgatgac tcacatttag gccggcgcyg 1620
gcagcatggc ttaggtatgt gactagctgg gtcgcccagc tagtgaggtc aactagagat 1680
gttggccagg gttttatcac agagcgtgaa ggggtgctgt agaggcagtg agacttatct 1740
tccattatgt caccaatttt ttactactag taggtaacaa ctctgaccg tgtataacctg 1800
aaggtcatgt ggcattaatt agggctgtac aaatgttggc ctggttttgt aggcaggaga 1860
cataatgatg cctgaggtta cggcagtata tagaccaaga tcgagttaac aacctcgatg 1920
gataacataa tacttcaggg cggcctaggc aacgtatgca cccgacctat gggcacgacc 1980
acggctgtag ggccctcattg attttatatc ctatgatatg acagcttggt gggagtgttc 2040
tgttctacgt aggccagcag atgtcttata ctgggtactt ttgaagtctt aaacatgtaa 2100
cagccgtaca attgatttga aaaagggcca atgtatcgtc agatcgaggt cgggtcgagt 2160
tgggtgcca tgggcgagaa gatcttgcaa tatgcagctc tcccgatgtg tatggcctat 2220
caccatttag caaatttcat tcctcatcac taccatgact atcaccacta tcatcactat 2280
cattactaaa gagatccgtc actaaaaagg ttcatttgcc acggggatac tgaatttgag 2340
ttgtatgtgc tagcagttat gcttgatagt tatgctaggc atgcttatat aacgtgtatt 2400
cataactcca cactccacac acaccgagtt ggccagttca cgtccaacgc ctccgtatta 2460

gactccgata ttcctattac ttaacactta aatcccaatt catgacaggc gccaaacatt 2520
 gagctgcgca atctgtacat tctctgacca ctctatcttt cagatccggc caggattaga 2580
 aatatgtccc gcaacgcccga agtcgaagaa gtctacgact cggacccaga agaagttgct 2640
 ccttctctgg tcccagcca cgccaaaaat gactccattc tctctggcgc ctcaatttct 2700
 acgtcgtcga tgcccattaa acccgtgcct tgaacctaag cgagaaattc caaaaatcca 2760
 ccaatgtctg gatcctgtgt acctttgacc agacgccaac ccctcatat ggcccaaaag 2820
 tttggacaaa cttggcaggg ataatccttt gggagggcat ttgtgatgct gtgcataatc 2880
 cttggatcgc atgtggtctt agacctataa tttccctcc ggactggcca atcccggcga 2940
 gttctgtgca ttttaaggta tgatcgttac cgttatttta caaaatataa ctggcttctt 3000
 tttgtccct catcccatg gtttacataa gtccctccta ttgttccct gagccctttt 3060
 tttctcttgc atcacttate ctcacatcta actcttcaat cttttttctc ctttctgaacc 3120
 cctgtccccc tetcttgga ttttttctc tcaactccctc tcttgggtgt cattacactt 3180
 ttcaatcact tattactcct tcctacgacg ttttaccttt ctcttcatat ctctactcct 3240
 tcttcctact tctattac 3258

<210> 1920
 <211> 1763
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1920

gggcggtca aaaccgcag cgcgggctac acaaacgagc aaaaagaaga ctgctaccac 60
 agcgagcacc acgaaaattc tcgaggacgt gctgcggcta ccactaaaac taccgtgaaa 120
 tcaacggcga cgcgcaaact taccaaagcg gacgaagtcg gcgccacaaa gaagacagcc 180
 gcgcagcta aaaagcgcag agctgatgct gaagatgctg agactagtcg ctccaccaag 240
 cgggctcgcg ttgtaaagcc tgctgctgca aagccgaggc caaaagttgt catcaacaat 300
 gcgccaaccg caaagctgaa cgtctatggt tgtggtgaag gtagctctgg tgagcttggt 360
 ctgggcgtcg gaaagaacgt cattgatgtg aagcgaccac gtctcaaccc gcacctgctg 420
 ccagatgatg ttggtgtcgt gcaggttgcg gttggcgga tgcatcgct cgtctttacg 480
 catgacaata aggttcttac ctggggtgtc aatgaccaag gtgccctcgg gagagatacg 540

acatgggagg gtggatacaa agacatggac aaccgcgact cggactcgga ctcggaactcg 600
 gactcggatg acaatcctga tctgaaccct catgagtga ccccaactgc cattccttcc 660
 agcgcttttc ctcatggcac cgttattgtc gaagtagctg ctggtgacag ctcaagtttc 720
 gccctcactg acgagggcca agtttatggc tggggaacat ttagagtacg tcatgttttc 780
 gcgagtattg aagacactgt taactttccc ttagagcaac gatggtattc tcggattcga 840
 cgccaagaca aagggttcaaa ctactccgaa gttattgccg gaccttaaaa aaataaagca 900
 cctggtatgc ggagataacc atgtcctcgc tctcaacgac aaagggtgctg ttctgtcgtg 960
 gggctcgggc cagcaaaacc aactaggtcg ccgtatcatc gagcgaaaca aactgaacgg 1020
 gcttcagcca cgggaatttg gtcttcccaa aggtatcggt catattggtg ctggcgcttt 1080
 ccactccttt gccgtacacc agtccggcaa ggttttcgcc tggggcttga acagcttttg 1140
 agagacggga attcgtgaaa atgcgggcga tagtgaggct gccatcgctc accccaccgt 1200
 ggtggactct ttgtcaaaga agaacgtcac gcaaatctgc ggtggtgcac accactccat 1260
 agctgccacc caggatggcg aatgtctagt ctggggctga ctagatggat atcaaacagg 1320
 cttaaaaatt gatactctcc cagacgatgc ggtcatcaag gacgagcgtg accgtcctcg 1380
 tatectcatc gagcctacgg ctgtccccgg gataaaagcc aaggctgttg cggcgggttc 1440
 cgatcactca attgcaattg atactagcgg ccgtccctgg tcttggggct tctctgctac 1500
 ttatcaaacc ggccaaggca cacaagatga tgtggaggtc gcaactgtca ttgagaatac 1560
 agccgttcgg ggcaaaagtc tcaattgggc tgggtgggtg ggtcagttct cagtctttac 1620
 cgaaccagtt gagttgtgaa ccacttagag gtagttttga gagttgcttc gtaaagattg 1680
 tgggctatct gtctcaagga tggccttga atatcgggct gatcttctaa aatgtgttta 1740
 caggacattg ggtatgctgt ttt 1763

<210> 1921
 <211> 3558
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 1921

cgtctaagat caagcctttc cgcgggaata caatgtatcc tagccctccg catctaaagc 60
 tgagtatcag gtaggccaga tgccatgggc cgaattctcg cttggtcaat tggagaagta 120

gcgacgtctt cgtgacgctc gttaacaggc tatggttgta ttggtgtttt cgggctggca 180
 gtacaatatg gctgcctggg agccttagcg gcgataggcc gtcttctagg ctgcaacgga 240
 acggtgggga acggcggtcc cctcaacaga ataggccatg ttatcgtgga cggcgttgac 300
 tggatgagta ggccaaggtc agctcagtaa aaacaaaaaa ataaggaaaa ataaaaggga 360
 atttacttta atcatatttg acgactctag ccagattcag tcattgtagt gaccatagaa 420
 cctagcctat ccaactctag gtacgcacag caagtatcta ctccctcttc catttaagag 480
 accccgacat ctctgccag aagctcaccg atgggtcaac cactctgagc tcctcctcgt 540
 acagatcaat ctcaggcgcc tcccagatca gatctgtctc aagcgggtgtg acaaactctg 600
 tccgtttcac caatttccag ccagaaaaca ggaccggcgc aagaaggacc atcgtgtagt 660
 tggatgaagaa ggtctctaca ctccaggggg tgaaactctc gtagccgaaa cagcagacca 720
 cggtaaacad ccacgcaaag ccgaggtagc cgcagtagcg ctggaaccaa ccagtgtgag 780
 ggagcgtgga gcggtcgagt ccttgggcaa cagtcgcacg gtagaagaag atgtacgtaa 840
 ggggtgatgat gacgtagtgtg ataagaccgg cagccgtgat gatgtttgtg agccagggtg 900
 ggaccgtgga ggaactgtcg ccattttgga ggaaggacaa aaacgggaag atcattacaa 960
 caaggaagca gtagataggg acgccctgct tggtagactt gcggaggatg cgtggggctc 1020
 ggcttcttag ggctagggaa tgcaggatac gggtcgctgt atagggtgag gtgtttccgg 1080
 cgctgaaaat ggaggtgatc aggagggcgt tgacgacatg cggtaggcct tcgatagaca 1140
 tgtttttcat ggctattaca tagggcgagg cggcgggcgt gccggagcct tcaccgtcac 1200
 cgaaatggat ggcgcgtagg gtgggatccg cataggagac gacaataccg cagcaaaggg 1260
 ccgagcctat gaagaacaca atgaatcgga aatacacggt ctggaaggcc gctctaattg 1320
 atctgcgagg gtgtttggcc tccgtgcca ccatggagat atactcgggt ccgacgcagg 1380
 caaaccggc agaccagagg caggcgagga aacctcaaa acgaccaagg ttaccgtggc 1440
 tgaggtattc ggcaatgag cggggttgt tccagttcct aaaccgtat acgtcgtgct 1500
 ggggtttccc gccgaccatg gtgacgaacg taaacgcgaa gagcatgagg atgaggatca 1560
 cttttccgcc ggagagccag aactcggctt ctccgtatgc ccggacggcg aggatattca 1620
 aaagcctagc cggtcagtct ttcgtgaggg actaccgcag ggaccgtgca aacgtacca 1680
 tagattataa cacatgctaa acaaatactc cacacgggaa tatcgtccct ccagtaggtc 1740

aagaccacat tgatggccgt aatctcgaac gggatcagca gcgcctcgta caagaagaag 1800
ttccagccag ccatgaaacc ccaggcatca tcgaccatt taccggccaa gcgataaac 1860
cctccctcga ccggctggta tacggacatc tccgtcaggc agttattgac catcgccaga 1920
aaacagcagt ggatgaacca agagatcaga agagatcctg aaccgccctt ggccaggccg 1980
ccgccgatag agacgaaggt cgcctaccg attgagcctc caatggcgat taattggatc 2040
tggcgggttc ccagtcgacg ctgcaggcca gagcccggtg cgaggatggg ctcagcccg 2100
acttctgagc catcggttagt gttactcttt tcgaggtctg gttttggatt catcgtgaca 2160
gtcttgagag gcgtgaaaag caagaaaaaa aaagggccaa aaaaaaaaag agaagagcga 2220
gggaggggtg atttaaaaga gacggtgcta taggttacat cttctgggca tgaaattatt 2280
gtcccgtctc gaggatgggc tgggatagga cgaggactgc gctgaccaga gattcacttc 2340
tccgtcctgg gcgagcacca ctaggagcag aatgatgggc tgggggcttg ccgcaatggg 2400
gataagcggg ggactggcgc cgtttggcat gactggggca ctcgccagga acaaatggga 2460
ggccccatc tgcttggtgc ttagcgcgcc tcgtgggcgg cagcttggcg tccatgccat 2520
gatcttacag aggatgcaac gcattctgaa attctgcgt aaagcagccg agcgggtgtcc 2580
gatcggcctc ctattactcg tcaatacggc accggtaccg agtaccggtg gcactactga 2640
ttgaaaaggt aaaatttccc aggacgaccg gttaccacca ggatactgga cacgcatgcc 2700
cctttcgtgc ttcttatcaa ctggaacagt atgctaaacc ccataagcga gtgagtttgc 2760
gagtaagcaa gtccgcgagt ctatcagcgt tatctcgag acggattttc gttgcaaac 2820
ctagctttct tatcgctcct cgcagctcag aaatcgcga aatcgcgat tgaatgcagc 2880
ctcgattca gttcgcatgg tagcatctct tttttgcttc ttcatttttt ttctctttt 2940
acttttcttt ttcgttttcc ctcttgtaa ttaatttat ttcgacttt tgtcccagac 3000
ttgtgttagc tgccgaagc caccgaagcc acagatgacg tcggtggctc ggcgcccgt 3060
ttcccgtcac gagattcgat caacgtgct ctcgtgttag gggaccctag ggctgtcag 3120
ccgcgaaga cgaacaggat catgaacgat gcattagatg cgaaccgacg gctctccacc 3180
cttgacagac caatatctcc gccctaacc cgtccctca ctcgtacggg caacgactcg 3240
ctgtccgcc tcgaagcggg gaaagaggag gtcgacgacc ccttgagcg aatctccgca 3300
cacctccaca aattcaccac agaccgagcc gctacgctc ccgtggccgg cggatcgtgc 3360

ctgatcccat tcgatgcctg gaaatcgctc tacacacgaa actgtcatgc atcaggaacc 3420
 attttgtcat tcacaacacg accattcatt gncggcccgga ctatgacttc gctacagatg 3480
 ncgcattcag ttcgtcagct gagtggcatg tatgattgcc cgggcccgat agtcgcgctg 3540
 atcgaatgcg accgaaca 3558

<210> 1922
 <211> 5150
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1922

aaccggcgaa ctcatctcaa agacacgggg ttaaagcggg tatatagggt ttgcagcttc 60
 tcacgaatgc attaatggga gacgtccgcc tggcgcaaaa ggaccaaacc agaaaatcat 120
 ttacctggga tcgtacgaa atcagcagtc tgaaggcacc gcgtccatat ttttgtgccg 180
 tggggctctgg gcctcggtga tcggcagtag aaaggaggag aacgggtata tataccatct 240
 actcgacaag aagtggaatg gccgcaggag tgctgttttc aagcgtagtc ggaagggtga 300
 taaacgtaag tagctgaacc ccgtaccaca tactcttggg ctgacgcttc gaaggctctt 360
 gtcaccagtt gtcgcgatg tcatgagcgt catttgacaa tatataatat tgccatgccg 420
 cactcagatt gccgagtcac acggctgagc gacctataa cgggcatcaa tcggctccgt 480
 cacaatccaa ttaggctgat agattatttg ataatgaatt gcgaaaatca tcgacgaaat 540
 cattcgctat gttctctctc tgccctgaat gtatccgacc agtgtattcc cagacaacag 600
 ccgcagccga tatatcacca cctacgagca ttcaagaaaa gggcaaacac tcttattcga 660
 gtccgatata gtagcatgca gagctctaag aagtgcgaaa gccagataag tgctatcccc 720
 ggtctccgac gccggcgccg aaccgcagtc cgggcccgcg gacatcgagg ccctgggacg 780
 gcaatagtgc ccgaataaac cccgaccaga tcaccagggt ccagcattct acatatacat 840
 aagcacgcag ctcttttctt cactgaaatt cattctattt cgctaagtaa cttgaaacag 900
 caatagcgaa atgggtctccg aaacactcga attctacaca aaagccctgg gcgctatgtc 960
 gtccctgggc atgccccgcg ccagccaaaa actccagtct ataccacacc acttcacata 1020
 ccaaacgacc cctaattcca aaaatgtcgt cattattggc ggctcatatg cggggactcg 1080
 acttgctcag cgtctcacag aaaccttacc gacggggtag cgcgcggtgc tcattgaacg 1140

aaactccac ttcaaccact tctttgtgtt tccgcgattc agtgtagtca aggggaaaga 1200
 ggagaaggct ttcattcctt atgataatct ggcgaagtcc gcgcggcgga gaattttcga 1260
 gcatatccgg gacaccgga cagaaatcac accgaaaact gtgaagcttt catcggtgt 1320
 cgaggtcgag tacgagtacc tcacctcgc gacgggtca tggcagccgg cgcgagtaa 1380
 atacgatgtt ttgacgaaga ctgaaggcgt caacgcgttc cgcgcgacgc agagggtgt 1440
 agaagctgcg aataccattg ccgttgttg cgggtggcgc gtgggcgtgc aaattgcgac 1500
 tgatatcaag agctattacc cggcgaagga gataacactg gttcactcaa gagagaagg 1560
 gcttagtgcg ttcggaccga ggctgcaagg ggctgttatg gatgcgctga ggaagatggg 1620
 ggtgggaatg gtgatggggg agaggccggt tatcaagaaa gatgcaccag acggagccgg 1680
 ggctggtatg gtcggaccgg gaagtcttac attcaaggat ggaacgcaa agtcgtacga 1740
 tcttgtggtg agtatgcgc tggcccttg ttatatacgt tagactgata tgtatagctc 1800
 ccctgcaccg gccagcggcc caactcgagc atcctcgccc atctcgacc aggagcaatc 1860
 gacccgcaaa cgcggcagat tctcgtgcac ccaacgctcc aaatcaatga tggctctaca 1920
 tccagctccg ataaagagg caccatctct gagcggattt tctccctcgg cgatgtcgct 1980
 aaaacaggcg gcccgcgctt cggcgtgcc gtcgcgcac aggtgagat tgtcacctcc 2040
 aatattctgc acttgatcag ggggcaaaag gacaagctga gcgagtacca tccggcaatg 2100
 tacgaggggg cgattaagct aaccctgggg aaggtaggcg tggcacataa gccagcact 2160
 tgttcgggat ggattccagt atgctaagt ttgatttcgc agtcgacta ccttttctgc 2220
 gggagaatgc ctgacggctg ggagattgtg aagtttgga agacgcagcc gcagaatgag 2280
 aatttcgagg tgcagtcggc ctgggaggaa ctaggggctc gggaggactc tgcagaaacg 2340
 gggtagctg ctaggacaga gaagttagag aagcacaagg agaagttcag tgcgtgctgg 2400
 gggcaagggt ggggacagg ctgggagaag aatcgcgacc agcagctgcc gtggcagagg 2460
 agggatgcat agatgactgt catcaagggt ggttgacct gtccattaac cgatgaatat 2520
 cattcacctt ccgtattag agttctgagc acgagttcca gccgtactgg cctcgtttca 2580
 agtatatcga ccgatgatc gagtcttttg aatgattttg ccggaatatg gcgagtataa 2640
 ttcatagcag tataaaggag ttaaatgcag aaagtctgta ttcgttatat ttgtcacctg 2700
 gcagcagatt ggatccggg atatacaaaa agaattgata ttgatatt tactactgtc 2760

cttgtaagac cgggtcaatg gagaccagtt taaacctagt accctatgtg tagcccaatc 2820
 tttatgacgt acaatctaga ctatgttgcc tttatatcga ttgttaagaa cattcattta 2880
 cattgagaag ccgccccatg ctcagtcaca gaacttgccg tatcattggc gtagtgactc 2940
 attgctacgg gtacaaagcc ctaaccgtcg atataccgat acccaatgcc aatctatata 3000
 tgacaaagtc caccattcta tggcccgatc tccggcatta taggcgttaa gcttagttac 3060
 ttctggcagg atgttaagggt attcctttgt atcaattcga cctattattc cactgcttca 3120
 aggtccttag ctgaacggta acctcacatc attgagcttg ggccagatct gccggagcga 3180
 tgactatccc gagttacgag ggtgaacac gaacataaat aacttctgtg agttgtgcaa 3240
 ctacaagtac attgggaggc acataggata ctttggatc taaggacagt caatgtggaa 3300
 atagtggctc cgtgccaaac ctacagctgc agagaaggga gcacttacga gagtcgcgcc 3360
 accactacag ctattatac ctgcgaatca caacgcaaaa atgccctgtt ggcagctagg 3420
 gccacatcaa cgatttcgac tgcgttgaca aagtcgatgc cggccatgcg cttgtgttgt 3480
 aagcacatct ttttgccagg gaggcaagct tgaacggagt tttgatcgta tatataacca 3540
 ctaggcttga tgggtgaagga gattgatgca agatactacc agtatggcag gatcagtcca 3600
 gttatatgca tacccttgct taggtctcta gggtgccgat gtcagcagca gattctcggt 3660
 aaggctcgcc ctgctgttta tcttcccaca tgctcagagt agttccaata aggcttagta 3720
 tacgcactca aacgatcatc cgcattacac aagagccatt ggcgaaacag tcttcctcaa 3780
 gcaaagatgt accccaggac aatatagtct tgccgaatgg ctagcatata taacccatgc 3840
 ggcttgacga cgcattatgt agcaaaggca caagaataat aatagatact atcactgttg 3900
 tcgagcaaat agcctatcga ttcgaggata gccagaatag gctggggaca ccgggagtac 3960
 gggtagacga ctgttttgct atatcctaga ctacaaccga aaggatccac cttgccttt 4020
 cggtttttaa gtttatttat tgaatcatta atcatttagt caatctaatt tattttaata 4080
 atttattata tcgaacttaa ttctttacta atatattgtg ttaatgcaca agagtataaa 4140
 acatagacca ctcccagtct tacgggtgcc acaccagcaa gtgccatata tctactcctg 4200
 tttgtacatg aaaaaccac aatgccattg aaaccagtcc cctatttggt tgctgaagct 4260
 atctgtctca agaaggccca gtattgccga tttgcagata cgcacaattg gaccggtttc 4320
 cggggcatct tctgaccag cataaaggcc acctccata accccgacgg ctcgatcgtg 4380

gtcgagaaca atgttccgtt ctcttttgac tcgtctttat taagttcttc gccagcgcac 4440
 tcgagacgct gcaaacaatc cataatgtcg ggccgggaga gttggagttt gccgatgctg 4500
 ccgcggggaa tgaggatgta ggggtgtagtg tttggccggt gactttttga agctaatagc 4560
 tcattagttt accttttggc tagttctttc ttcaatagtt aaatttttgt agtcttcaag 4620
 aagttcttac tgatatattc atattattgt ttctcacttt tgattattta tttctatagt 4680
 ctattctcac ttttatactc ctcatctctt ttactctgta tttcttatta aatcttattt 4740
 aatcttagca cttatccttg taataactac tactctctac attcttatca tattcttcca 4800
 ttacctgcct tcaattactt ctctatctt tattaatctt atttcttatt tctatcttta 4860
 atatcttctt ctctatttat gtattatctt ttttctttt cctcttattt ttcttatcta 4920
 tattttttct gaactttatc attctatgta tcttcactct tattctactt ttcactcttt 4980
 ttttttcaat atctatttat tttttatttt cctcttttct catctactta tctttctact 5040
 tatatttggt ctctctcatt aatctatatt ttactttctt ttttttttcc cacattcata 5100
 tatctaccaa tctatttttc tttcatccta taattccata tctttcttct 5150

<210> 1923
 <211> 779
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1923

aaagaaggaa ggggtctagca gctaacattg gagagtcagc ccacagtcac taagctatgg 60
 cacgaaggat gaaggctaaa ctgtgtatgg cagactattg ttctttggga aggatatggg 120
 gaaggaataa gcactagaat agaatactct gaatgtcggg gttcaaccgc tagagtgtgg 180
 agaccataag cctcagccct aagtgagaat atccgagcac gaccaatcac acccttctct 240
 atacgagggtg ggcataatga tgataccaaa aataaacacc ctccggacga cagcatgagt 300
 acgagccaga cgcggtctgag caaggatagc agcggctgag ccgcgctctc atagggccac 360
 gaccgcgata atccagagct aagatagcga cgtttctctg atgccagtgc acaattcggc 420
 gctgcactct gactgcacag ctctgcagcg gtggataagt ataaactggc ctctattggc 480
 tgttcttggt ggtaagactg caggactacc gttgggagcg gtccccataa ggctgatggg 540
 actgcctgtc ggtagacacg tgaaggggtt tattcagtgc tggttaattag gcttagctct 600

aatcaaaaag catgtagtag ttttaagaaaa ccttaatcga ctctatccag tgcacotcat 660
cattccccgt ttaggcaatt cttgatagat catcatctcg tcaccgggca gcaccacgta 720
gccccattac ccaactccagc tagccatggg ggcttttaggt catgctgctg ccagatgat 779

<210> 1924
<211> 3134
<212> DNA
<213> *Aspergillus nidulans*
<400> 1924

aaaaaaaaa gaaagaaaga aaggtacgat agctatcgaa ggctccttgc cttgtctagg 60
cctgggttacg caagtcacgg cagtcacctg gctttaggac aggaggacga ctctgtccgc 120
ctacgtccct atttatccga cacctccctc acaatggacc ccagtgttcc tatccgattg 180
aaagctctcc tcctcgactt cagtaacttc cgtacttccg tactcgacgt acttttagcgt 240
tcctcgctgt cgaatttcga cgatcgccgg tctatcttca ctttccagtc ttcgtccaag 300
cgacggctgc aactttctacc agtaagcctg ccattgcatg tgagacggac gattgagacg 360
agcgctagac gtgcaagacc catgtccgta cgatcatcag actaatcaga ccaactgagag 420
tacttgaaga gaggctgaca ggcgacagta tccagtagag tgtccagtac agagtccagt 480
cgtagctctg cgcattccagc ttccccactt tttccccgct gtggccggcc tgcttgattc 540
ggaccgtaac cgtcgctgtg ttcttggaga gtctcgcttg gactacgagg gacggagtat 600
tatcgcccag actccccctg cgccacggtg cttgcgcaag catataaaga gcccagtcct 660
ggctctctga gaacagtctc ccatccgcaa gctgtgatcg cgcccgctctc gtgctacccc 720
accatcccac tcctaccatc ctaccatcgc actgaactcg acgtcatacg cggaatcccc 780
agccgctgat cctgccacgg ttgcgcatgg cgcagagtga gttctcctct ttgctgcatt 840
gcccgatcgg ttttggtccc cagtctgcct gtcaccccca catcatgtct ccatgatcat 900
cgtcgcatcg tcgtgtcaga tcgagggtcc tccacaatcg gatcgtgcgc taacgggtccc 960
tagcaaaaca cttctttctc gacccacccc atctggttca cacggcgctc aattcgctga 1020
cgctcaactaa cccgtcactc gcgttcgacc gcgagaataa gatcatcttc cgtcgtcccg 1080
atgtcgtgag gaaggggaaa gtcgccatca tatcggtggg aggggtctggc cacgaacccg 1140
cgttcgcggg gttcgtcggc caggggtctcc tggatgcatc ggcggcaggc accatctttg 1200

cgtctccgaa cgcagagcag attcgtatcg ctgcaatgga gcgtgttaac aatgaacaag 1260
 gagggtctcat cattcctatg aactacaccg gcgacgtcct caatttcggg atggccgcgg 1320
 agaagtcgcg cgctgccgga atcaagaccg agttcttcgc catcaatgac gatgccgggtg 1380
 ttggcaaaac caagggcggc aaggttggtc gccgcgggat tggaggcggg gtcctgatcc 1440
 tgaagatcgt cggcgcgctg gcagaggctg ggtaagttgt ctcgttactc ggaactgatg 1500
 aaatcctgac aagttgtagt ggctcgcttg aagaggtcta caagaccgct cagttggcaa 1560
 atgagaatct tgcctcggtc ggctcatcat tggagcacgt ccatgttcct ggtcgagagc 1620
 catcgatga ccacatccca gaggcgagg ttgagatcgg catgggtatc cataacgagc 1680
 caggatctac ccgcaccaag actactctcg tcgatctagt tgcgacgatg ctctccaga 1740
 tcttggaaca caacgacct gaccgatcat atatcacga ttcgccaggg gacaaatttg 1800
 tgctgctggg taacaacctt ggtgggctca gactctcga gctgtccgg atcaccgatg 1860
 aggtctaccg ccagctcggg aaatcgatc agatcaagcc cgagcgagtt atccagggca 1920
 ccttcctcac cagtctgaat ggactcgggt tcagcatctc actgctcaag ctggcagaca 1980
 ccgggctggg ccccggaag tcgttccttg agctcctcga cgctcccgt gaggcggctg 2040
 gctggtccgc gcctatcaag cctgcgacgt ggaataaccg caatgcccc ggaattgaag 2100
 tcaagagagc caagccagcc gagcagctc ccagcaacgt caagcgtacg tcccgtgct 2160
 ccctttattg acacgtgcta acagtacaca gtggatatcg caaagggtcg caaagtcctc 2220
 ggggccgctc ttaagcgcg gatcgatcgc gagccccaga tcaccgcta cgacaccatc 2280
 gtcggcgacg gcgactgcgg cgtcgggctc aagcgcgcg cccaggctgt tctcgacctc 2340
 ctcaacgacg cctctgaaa cctcaacgac gatatcgctc acacagttaa tcgcatcgtc 2400
 accgtcgctg aaaacactat ggacggcacc tctggcgcca tctacgcat cttccttaat 2460
 gcccttgctc acggcctcgg tgagcaagac aagggtaccg aaacgcctgc tgataccgac 2520
 gtctggggca ctgcgttgaa atactctatc tccgcgcttg ggaagtacac cctgcccag 2580
 gtcggtgacc gtaccatgat tgacgcctc gtaccgttg cgaaaactct agcggacaag 2640
 cgggatgtgc atgctgctgc caaggccgcg gaggagggca ccgaggccac aaagcacatg 2700
 aaggcgtcgc tggggcgggc ggtgtatgtt ggaggcgagc aggaatgggt tggcaagggtg 2760
 ccggatccag gcgcctacgg gctcagttag ttctttactg ggctggcggg cgctctatag 2820

cggcactatc actttatggg cactggccac tggcatgtgg ttctacgtat atatctatat 2880
 gtaattattc ctgcttagcg ggttgctcta gtataatata atgatgacat gaagtataac 2940
 gtctgcttac cagataatat cttgtctctc tagggatcgg ctactgtgt ctttagccag 3000
 tacttcccc t gttgtggga tttcctaatt gtccattagg cagctagcgg cgcttattec 3060
 tgccgtattc aattatcgcg gccgcagcct ccaacatccg tttcagaagg ctgaacgggt 3120
 ttcaagggtc tcag 3134

<210> 1925
 <211> 3002
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1925

cctggaatgg caggccatat tcggtggctt tccttgatta tggcattcta ggtcaccgag 60
 cactgttagc gacatatatt cagtgtggcg catgactatc gcaggtggag aaaacgtacc 120
 agatacggaa gctcaccag tttcctcgga tcgatatccg tactttttgc ctgtcgtctc 180
 attgcttcat caagctcctt tcttaatttc cgcaaatct caggactctt gagaacatga 240
 tatagagccg taactagcgt cccaccctg gtgtccacgc cggcatcgat aaacgcgaaa 300
 gcctcttcgg ctaggtagtc taatgtaggt ggtttcccg tattttcaag ccgatgaaaa 360
 atcaggagct cagcgacgga cgcttctgtt ctacgggcca tttcttttgt gggagtgttg 420
 aggagaggcc gtgtgtggtc tttgcatatc tatactgttg ctcagtgtct acccggaac 480
 gtatattgat caggattacc ttcttgaagc ctgctactgc tgaaggagtg aggtagttaa 540
 caacagatga tggtagaagc gagttaaatg tagcgaggtg tgggaaaaat cggactaacg 600
 agaaatgtta ggcgatatat gcaacaacag gggaattact gcctggaggc ggaaaacgca 660
 cgagtaggaa tcaaggcaga aagcccatca atgtcctcaa gcatatccag ctttctagcc 720
 tcgtaattaa ccagtcgcc gcaatctcca agaaacacgt ccgccacca gtttatctat 780
 tcacgataat tctccctttt agccggcact tcgatataaa ctcaatcaga acagaaattg 840
 aagtcaacga accgcaacag cccgaaacaa atccgtaatg ttgcaccct ctccctttct 900
 cgactgtttc accataaact gcaccaaac ctgcaatcta gcttgaattt ttggcgccgc 960
 aagttcggcc gcctgtttcg agaacctcgg agcgagcacc ttccgtcgt cgcggtgatc 1020

gtcgcggtct gatagggaga agacagatcc gtggttatca gcgcaggtgt agaaggattc 1080
 atctttgtag aagtcggtgc ccaggcggaa gatactggta aatcgctccg ttgatccttc 1140
 gtgatgtttc ttgaagagag gtgaacttac tgctcataag cttcaatatt gttgatatgg 1200
 acgtggtttg gtccgatgcg gacaacgggt gagcctggaa aattttactg tataaaacag 1260
 ctattgacct agagaagtag aaaccgtact gtatctttta tgtagctcgg gaaaagtctt 1320
 gcaccactct ccgtctcgcc agatgttggt gtagaactcg tagaagccga agatgcgggc 1380
 tgtccatggg ccagggatac ccaggagagg gttgaagagg agtcggcgaa ttatcaccca 1440
 cgcaagaagg gcaatggcca gcaagggtat gtacgcaacg taattcatcc ttctaagttg 1500
 ctactgaaag gtggtcctgt ttgagagacg ctatttcctg agcaattcgt atgggggtta 1560
 aaacaaaccg ggaaatgact taggggtgta atgtcaacta accacactca tgatcatatt 1620
 gaaatggagg tgcatatata ccgatgagag gtgtaataaa cgatacgctt ttcagctgca 1680
 gtaacgtttg gcacttgagc ccgtggtcgc gtatgcatga gggaccgtcg gctggggccag 1740
 aagttgggca cctccgtaga ttttacgtat gtctacctca tttcagtaac aaaacgcaga 1800
 cagatcgatt aaattcctgt attgcaaaat atcaaaccce catcacgtcg gtgagcatgt 1860
 gaaatcacat tcaatattgt cccaagtcag gtacaaaaca aactgccgat tacgtccacc 1920
 atctgcatca accaacccta ccgctctacg atccatactt ataacaaaga tgataatctt 1980
 ccgtactcat cacctctctc aatgtgcgac tctgatccag ccatccaaac ggcaactccg 2040
 tatccaagtt aacctcagga gttgtcggcg cattatggat tgagcttgtg ccattcaagg 2100
 cccacctcct ccttttagga tctttactct gccaaagcgt ccagaccoga tccacttgcg 2160
 catggtgcag gaagaaactg ggatcctgcg gcgctgtcca aaaatcatcc attgttcgac 2220
 cgagctgcat gtgcgccaca gcatgcggac ccatgatccc agcctttcgg agttccggcc 2280
 agtcgctgaa gtcgatatta atttgtaatt ccgtaattga gtgcgaattg agaagacgat 2340
 caacgtcgcg ctggctgggtg aacagctggg ccatatgcga gttgaggttt cgggtgaaac 2400
 agtgtgggga gtagttgaat gcgctggcag ggaattcggc gtcgccggcg aaagttagat 2460
 cgggcaggtt gagcgtcatg ttcgcgaatg gaccgtttgt gacgcaaccg ccgccggaac 2520
 cattggggat ggtgatgttc gttgggacga gtttgaagaa ggggtcttgg gggatgggat 2580
 caccgtcacc ggagagagag gtgggagagc catcgaagat ggggtcgcgt gagatgttgt 2640

cggcggagag ggcccagtc cagtaacttt tggagttagt cgccatgctt gtagtgagaa 2700
 tggaattagt gtgcttacgg ctggtcacct cgataccac actcctcctg gagggccttc 2760
 tcccacaaat agacgaagtg cgatgccatc caaagaagat gccgctgagg tggatattca 2820
 ggggtgaatt gatgtgcgtc ctgtatacgc cgtcaaactg cgaacaccgt acattcagct 2880
 ggacagactc acgcagagaa atcgtccata cgatggcgga caccggggta ctgatcccg 2940
 ggaagaattg gaggtttgct ctgcatacag tgaagagcat caatgtaatc aaatctctca 3000
 ga 3002

<210> 1926
 <211> 2864
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1926
 gctgcttttc atcaaaatca cattggaagg ggcgataacg atgtctatac agtgtgtcac 60
 ggggtgtttct taatgagctg aacacttatc taggtataaa acccgctatc cccttttggg 120
 accccgctcc tcgtatccat gtagaggcct tgactcaagc atccttactt ctataaatct 180
 ggaaaatgag ccctcgaagt tgtggatttg gtcttttcag tccgtgcaa ataaaaagac 240
 tgtaaacacc aataaccaa tttatgtaca acggtgctca ataacaaagc acctgcatcc 300
 agtggatata ctccccctcg tgatattggg accacggaaa tctacgctgc tctaagcgtc 360
 gaagcagtc atacactttc aaattgagtt ctccaagttc gttatgacac attcaatcat 420
 tgcaacctgc aaacagactc ggtttcatat tgatgacaaa ccatcccag aggtttgttc 480
 cataccaat ttgtcaacat agagtataac tcaagttttc aggttgatat agagggcctt 540
 acagtcgcag tatcttcagt gccggagtct gtggaagatc cctcaagaac aaaagcaaag 600
 gggaaatcga agtctaaggc cgaagcaaga gagctcattt ctgatgcgca cttgcgactc 660
 aaagccggcg tgcattatgg gctgataggt cgcaatggca ctggaaaatc gagtatgtga 720
 tttgacctcg ggcgagacac tagttaacgt ggtgtgcatg cagcgttggt gcgggcccgtg 780
 gccgataaac tggtagccgg cataccgcat tcaaccgaa tagccattct gcagcagaca 840
 gatactgcta gtgaagacgg ttatgcgccc ttctatgata gaactgaaga tcaaggagca 900
 agtgagggaa agttcgttct ggactatgtc atgagcagtg accagttcag gaacgaagtc 960

actcgaaga tgaactgtaa ggacacagcc cttatctaga tcattttctca tgagaatgca 1020
 gttttgtcaa aatgtttcga gacggaagac ccgctagagc ctgtgagggg gattcgaagg 1080
 attcgccacg aagataccga gaagcagctg ttcctggccc ggaaaaatgc cagtctaaga 1140
 agtgggtgcaa ggggactgca agcgcgaaaa gagctgaaag ccgtcgaagc aagattcgag 1200
 ctttcgagag agctgtaggt tgtccctgga tcttgcacct tctcgtaagc taagttttat 1260
 agtctcgagc aggcgaaaga ggatattgat gccgaaatca taaagcaaga gaccaagca 1320
 gcgatagaaa cattgcaaga tctgcaatcc caatttgaag cagtgagtag cgctgggctg 1380
 acatcgaccc cgggggttgct gaacggtcac tagatgaagc ttgtcgacat agagcagcag 1440
 gctagccaaa ttctaactgg attaggattc aaagaggatg cettgagcaa accattctcg 1500
 acattgtcgg gtggctggcg tatgcggtgc atgctggcga gcgtcctgat tcagaac̃cct 1560
 gacatcatga tcctggatga gccaaccaat tttctagacc tattaggagt gatctggctg 1620
 gaagaatatc tgaagcagct cagagattca acacagacga ccgtcgtcgt tgtctccac 1680
 gatagggact ttgtaaatgc tgtctgcgaa gaaattgtca tccttcgaga ccaaagctc 1740
 acttatttta aagggaaact gtccgcatat gaacaggatt ttgaagaaca gaaactatac 1800
 tggggccgca tgaaagaagc acaggagcgc cagatagccc atatggaagc aaccgtccgt 1860
 gagggcatta aagttgggaa gaaaaccaac gacgaaaaca agtccgcat ggccaagtcg 1920
 cgacagaaga agctcgacaa tagaatgggt gtccaggtta acgcacgcgg agggagggtc 1980
 aagctgaacc gagatctagc tggctggcac tcaagtgtc ggcggagat tgaagtgccg 2040
 caggatgaaa agggagctct gattgccttg cctgaccctc ccgagctgcg atttcccggc 2100
 ccgcttatat cactagaggg gatcaccttc aagtataaaa ctgatgcac cccagtgttg 2160
 aaggagattg atcttgtgat gcacttggga gatcgcgtag gtctcatggg ccttaacggg 2220
 tgtggaaaat caactctgat ccgtctgggt gccggcatct ccgtgccgac tcagggaaaa 2280
 gtctctcgc actcgggct aagaatgggg tactacgcc agcattctat tgaggagctg 2340
 aaaaccaggg ggctgggaga ccctagcctg acggcgtag ggctgatgac aaaggacgtg 2400
 gatggctcac tcaatgaagg ccagttgcga gggttgttat cgtctctagg tctccagggg 2460
 aagatagtct ccgacgttcc gattcttcca ctctctggag gacagcttgt aagaaatccg 2520
 ggaacagctt aagagctagt atcactgata tatgccacac aggttcgtct ggccttggcg 2580

agaatcatct ggaacgcacc gcactactc gtcctcgacg agattaccac ccatctcgac 2640
taccatacag tcacggccct cgcaaccgta ttgtccactt tcaaagggtgc aatactgctc 2700
gtttcccacg atcgattcat ggttcgagct gtgattgaag gaaaacgcga cctagaccac 2760
aaactagacg atgactttga aggcgtcgaa gaggagtcag atatggagct accacggcgg 2820
cgagtcgtct acgtgatgaa agctggtact atgacggttc agga 2864

<210> 1927
<211> 3386
<212> DNA
<213> *Aspergillus nidulans*

<400> 1927

cgaacattat gccacctctg cccttcaacg aatggctgct tcgcaagaac tacaccgcg 60
cctacttccg tcccaacttc cagcctccca agaccgaatt caaatccctc gaggagatta 120
acgttcctgt ccttctctcc atgacggttc tggaacgtgg tatggtaatt tctccggcca 180
acaaggaaga tgccatgcct tgcccaccga tcatcgacgt ggatgtcgcc gctgatcacg 240
atattgacga gacggataag ctgttgtttg ggttgccac ttctgcagac cgcttgacc 300
gcttgcttcc ttctctgcta tactcttatg gaaacaccaa ggccggtatc attgttctcg 360
ttccgaactc cgacgacgac atcgtaagc aggagacata tttccgcaac cgcggtcttg 420
atttgacttt gatcaagtct cctctcgagt tcaactgctc ttacttcggt cttgtcaggg 480
ccttctctga acacatccga acgaagcgtc cccaaaccaa gtggggttagc ttcattgatg 540
acgacacgtt ctctctctcc ttgcctacta tcgctcacga attgaacctt ttcgacgtta 600
acaagaagca ttatattggt gcctgtccg aggcaagctg gcaggttgac acattcggcc 660
acattgcttt tggaggagct ggcgtgttcg tgtccaagcc tttgctcgat accctcgact 720
actactacga tgaatgccag tcatggggtg agcagcccgg tgaccagaag cttggccagt 780
gcattcagcg atttggcgat actcctctga ccctctggcc gtctttgtac cagatggaca 840
tgaagggcga gggtgatggg gtgtacgaat ccggctgcaa gattgaatct ctccaccact 900
ggaacagttg gtataccaag gacgtcgta agatgacctc tgcttctgct ggggctggcc 960
gccgctctgt cctccgccgc tgggttttcg accaggagga aatcgtgaac aacgccaccg 1020
gaaagtcaat ccgaaccttc tgggtcttca ccaacgata ctcgcttgtc aagtacacct 1080

acgatgagaa cacacctgac gatgccatca actttgacca cgccgaaaag acctgggaag 1140
 aagaccctcg cggctatgaa gcgcgcctag ggcccccttcg ccctcgcgac caggagggtg 1200
 ttaccaagga cagggtggctc cttcgggaat ctttcgtggt tggcgataat gttcatcaat 1260
 ggtatgtgcy tgaggaagat gagggccaca gtgtgattga gattgtgtgg ctcggtccta 1320
 aggggtggcgg tgggtgctggt gttagggatt ttgcgggtcaa catccactaa ataaccatgc 1380
 tctactgcyg gattccaagg ccggaccttg gaatcggggc ctttcgcttc ttgcacatta 1440
 tttacattca ttgcactttc tctttttgac acctcttttc ttttctacct acaacgaaga 1500
 cggacgagat ctacgaagtg gcaggaaatg gaaggcctct tcgaaccact accgaagctg 1560
 gacgcacatt ttcaatcggc tattactcgg cgttgttctg gcgaaataag acggcgagct 1620
 cggagatcgt ttttcagctg ttccgagcta taagagcgac ctttctgtgt ctctgccgtt 1680
 tttctgggga ggattgcttt caatgcacat gtaaaaatag agttttgttt ccttgggtcat 1740
 tggcgcatgt cattatccaa gaatatgatg agttaagtct agatcttact gcagtcagga 1800
 taccgctgct attatcacta atatgataac aaattattca ctttcttgtc tttgagtaag 1860
 cgagagtcga atgtttcagc catgcgtttc acttttattg ttgaagacat gccgctgacg 1920
 ccgttggtat ttaatcgcgc acagatctct aaatgaatca tagtggaat cgtgatgtgg 1980
 ctgggataag tatattgatc tcttaagata tagctgtctt ggaacgtagg gcgatattcc 2040
 aaaactcttc tcgtatacag agactcccaa caagcatcgc agaaggatga gtgcctgcgg 2100
 ctatgctcaa accccatgca agccaggaga caaccaaatt cgtcaattat ccccaaccgt 2160
 aagccgaaag gtttactgtt gtcgtttcgt ctaatatctc gaaccattg ccggcacgac 2220
 gagcgatcga acaatgctga tagacaactc tgcccagggt caccctgcc aatgtacggt 2280
 gtgcagaata ccattgaatc tgtacagccc tgaaatatac tgcagcccat tattggtgga 2340
 tattggtatg gctaaaatta ttggcgggac tatcgcttc tatatccttt ggtgctggga 2400
 tcgatttgat acaatcaagg ctccaactgt cggctgtcga cacgaagaga ttatcgtcaa 2460
 gtattagtct actgaactcc aagatgatgc gtcagtgaat tggtaagaga gtagcaactg 2520
 tcaccgtact gtagtagtcc gtaccaccgg ttcatcagcg ccctagccaa cggctacggc 2580
 caacaactga acctaatcac ggagtacgga gtccgtgtgc gcaggactcc ggtccctctg 2640
 taagaggatt gaagcaaggc acttctggcc ggctattgtg actgagatgt gttgtccagg 2700

acgggtggtgta gtctgcattc ctggggcact agataccac tgatcacctc tgttcgtggc 2760
cgtcaattga gctagagatg cgcgattccg agtcgtggaa ctggactcga ggaggttggc 2820
atgcttgtct ccaccgagtc actgtttact gttttgcttg acatggccac cggagcctta 2880
ttttgaactc cagctcgagc ggtgtatcta caactgactt gaaagagtcc agcgctcagg 2940
gctcaaaact gtgggcgtga ataatggggg tctcgtggga cggagtacta ccggaatat 3000
tacgtgggat tagcggggag tgactttcta gagtcgacca atcatacagc tcgccaagag 3060
cgctgaatgg tctggacaaa cttagtcccg gccgatgcca gtgcctatc tcgcttttga 3120
ccttgaacag cttcaggaag aatgtgtaaa tgctcattaa ggccgtaaag gtgatataac 3180
atgatgtttt aagctttctg tcttgagat gaaaggtgag ttctaaatga ttgtcttcca 3240
agcgaagagt ataagaagtt gactggagct gtggggcgtc ccataccgta agcgcacgat 3300
gagccaccgc cttcccatct gaaacgacac ttatccatta cgagctacat ccagctcct 3360
ccccgttggc ctgtttctct caacaa 3386

<210> 1928
<211> 1153
<212> DNA
<213> *Aspergillus nidulans*
<400> 1928

ccgctgtgtt ataacatccc ttggaattgt ccaaatttcc attccccggg caggaagccc 60
tttccctttc aagtggttcc ggtggatgca tcatcgcgca ttgtaaggaa ggaaaccact 120
gccaaaccgt tttccgtcgg aattaggggc aaccttaagg gaagcttggg tgccaaaccg 180
aatgttcttt tttaccctc caaccaagcc agtaggggtg tatcccaactg gcgttttacg 240
agtacgtctt cgagtcttca tagcagtgcc atccgctagt acggctgtga ggttgatcac 300
ccaatccttg atagtcccg accgcacagc atttgtaccg ctgcagtttg tgccaatcat 360
accgccaatc atggcagatg gacctggatc gaccggaaag aagagcccag tgtctttgat 420
tttctcgttg agatecatcc actggataga cggttgtacc acaacgtcca tgtctgcttc 480
atgtaggtcc agaattttgt tcatgtatgc aaagtcaatc gtcaagccgc cataggcagc 540
tgaaaagttt gcttccagac tggaaccacc ggagtacgga accattggca tcttgtatct 600
gttcgagatt tttgcaatct ccgaaacgtc ctctgtactg gatgggtagg caatggcgac 660

cggtaagcgc tgcgcattga cgcttgacca ctccgagaag ccatgtcggt gtaggtcgtc 720
 ttcatccgtg ctaatcgcat cttctcccaa tttaacctga agtcagcga tggcctaaac 780
 gacaaaggcg atcgttagca acatttcaca atagccgtac tgggtccttg tttgtacctt 840
 ttcgaaatct tttgcggttc cataccgtgg ggtgccagcg tccttggggt ccaacagttg 900
 gtccgagttg ccaattccgt agccgattcc agcagctagc gacgcgacaa cagccatccg 960
 gcccaaggac caggaattcg ccgagtttcc ggcagatgag ctcgagctcg agttgtgact 1020
 actcttctga tcattctcac cagctctgga tgttgagctc gtcaaccgaa cggcgctggc 1080
 aaaagggatg ggccgagaac ctgcccgaca cagcatgcgg ggatttgagg ggaatccccg 1140
 agatatcagg gac 1153

<210> 1929
 <211> 992
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1929

ctctctgtag ccaccatctt ctatgccgtg attgccgaga tccttgaaac accgttacgt 60
 tgtcttgaa agcgttgacg tttgatgaga aattcttgga atcacattgt ttgcgttggt 120
 gcccaacact acagagttct tggatatgtg gttcacccaa tgtagatgga gctagccagt 180
 tgaccgatga ttatagaatg ctatctcggt tgccatgaac ggaaatattg cgctctccat 240
 ggagatcgga tccgcctatg ccctgcaggt ttgtctcttg caaataacctg ctcttgtctt 300
 gtttagtgcc ttctacgccc gtgttcttga ccagaacat ttgattacac actccttcag 360
 gtacgtcagc tatctctcgt attgtgtcaa tccttgagat cgatatgatt ttgaagaagg 420
 ctaattaatg ggtttaacag cctcattttc gcgcaatggg atatgattac agtcacctt 480
 tgcgtttttc tcctctctta tgtctacggt gaaggtaaaa gcaattattt caagggctca 540
 atcctcgctc tgacctacct tgcgtcggtg attgggttct tcctctcttg ttacagtaac 600
 atggacacca tgggtgttga tcgcttcaac accttgcccc tgaacattga atctaggccc 660
 gagaaattct acacaattgg caggtcgaaa agcggagttg cctatcagcg tgttactga 720
 ttaggcacct tgaggtgtca atggcggctt tcgctctttg ttctctgaat actttctgac 780
 ctagagactt cttgagcgca cgattcatgt gtacttcgca ggccatgttt ttggttagta 840

gtagattct gccttcttct gtcagaatga atgccggcaa gtatagtccc caaagtgate 900
tctgactctt tactttgtaa aatgggacaa aaaaggtgta gcttggaaaa ggcaagttat 960
tgcgctatac aaaccatgcc cggaaggtta tt 992

<210> 1930
<211> 1689
<212> DNA
<213> Aspergillus nidulans

<400> 1930

ctcagtaagg ggccgagagg gagagtaagg gatagagagc gcgcaaagaa caaggcaaag 60
ctgtaatatg ttcagtatat catgtttggc ttcgtcctct gggatgctag gatatgggac 120
acttaccata cccctagcgg agggcccgtt gtgtcagttg ctcggtatcg tatttattca 180
tcttactgtt gcttagcggt cacttttaga tactctagag atataatata tctttattgg 240
cggtgtagca gacactacca atcagttttc ttatttcgct taacaactac tatttgggtt 300
gagtggtagg tacagtcgat tatggcatgc atatgcacgc taccttgccc tagaatagtg 360
cgtgctaact agacaaaaac cacaccaacc tgtaattttg agtcccatgg ctttgacatc 420
agagcattat ggattagcta ccatgatacc gatgcagaaa tagttcctcc agtatcgttc 480
gcaagtcttg gacctttctt tatcactcga gtagcagtag tggagatatc tgtttcaagc 540
acaaaagcac tagccagttc ctttcgctgt aggtttcttc aggtttctca tccaggacgt 600
ccaacagaag aaatacctca gtcacgcagt gcatcaccaa cccgcctcat tccgaacct 660
aaacacagtc agactcattc agtcgcacca ccaccgaaaa cgatctctct aaccgagaag 720
tctgatatta tcgcattggc gtgatcatta aagacggagc agagatgggt tcctgcaatt 780
tgcagtttgt acacagaccg ggtaggaag acggagttag tctcaggttt ctagttttgg 840
tttagctaag ggagtaggga ctgaagacct ggaagaggcc taaacgagta cgagatcaga 900
tctcgagatg aaggtaacg taccgtgtgt tgaatgaagg cttccctcag ctgggactgc 960
gatactgagt gccatgacgg agtctatatc atttgatgtg actgagaggt cgtaaagaga 1020
gtggtgtaag aggtgatag aatgacagcg ataatagcgg tggagtatca tggatatttg 1080
atactcgtg gcaaggagaa tagccacaag ctactcaag aggtaggacc tagggccgtc 1140
agacacgtca tcacgtcca agtcaacaaa cctaacagtt atcctcggag aagagtcaaa 1200

tcaaactgat acagtcacct atcatggctg cacatgctgg caagatcgtc ataaccatta 1260
 tcctccgatt ggtctcggag aagtatggcc atgaccattt tgctccggat gtatcccatc 1320
 catcgctga agctcaagct ccgcagctct tgatttctaa ttattctact atctctccag 1380
 gcttgaata aagtgtccga cgtctatttg agctcttttg ggagcggctc ttgcgtactt 1440
 ccaccaaagc tcaatagctc gagccacgat cccgcgattc cacagagggc cgctgcttcg 1500
 agccgaacat ttcatcccaa gaccatgggg catccaagtt agcgaatcga tggcaccctc 1560
 agcttctcca gctccagccg catccatgac aagcacagaa tggaccgtct tgccgggcat 1620
 ctgcaccccc cgcgggctcg tccatggctc gcaccctgc tcaatgcagt cctcaccatc 1680
 tagccccag 1689

<210> 1931
 <211> 4419
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1931

acctgcgcgt agatgagttt taggtcggct acctgccaa taaccgcgcc tggcttgagc 60
 caccgcgggc ggggtcaattg ctctgtgtg tccgttttcc acccataact atccggcggg 120
 agagtcgact ccggcacact ggcacagccg gcatcgtctg tcaggttatg aaaacactct 180
 ttgcttgccg agaaaatcac gcgctgcgag tacttctggt gtgtttccac gccatccttg 240
 cggaatggtc gatccaccgt aaccataccg tacctctcac gtaacttcgc attcatttcc 300
 cgtagcaatt cctgataccg cctgactaga acctctggcg gcacgtggaa gaaaatgtcg 360
 aagccgtcca caacaaaac aatgtcatga tcctggaggc gcggggtgta cgccaaaaag 420
 ttatatatcc cagtaattct gtcaaccatg taatcatgtc cggccgatcc cgctggaagt 480
 tctctcccat agcgcaccag cgttggcggc ggataattta gaatcatggc cgaagtcaag 540
 gtacggcata ggctggggtt gctgcgggtc gcgggcagga cgagatgaaa cgatgcattc 600
 gtcttctgca gattattcga cagtataaag gtatcattgt gatcgtaggc aatccggggg 660
 gttatgatcg tggcgtcttc aggtcgaccg tggaaagggg ggtacgaggg gtattgaagc 720
 cagtgattga cctccggctg aagaatcgtc agtccttagc agtcccacat ttgccatttc 780
 agagggctta cctcgcccgg agaccgcatg aaaagaaata tcaaaaagaa gcacacctgcg 840

actgcgagaa gcaaccgcgt cggtcgcggc cgtgggagag gatagtaagt ctgctgcagg 900
 aaccgcgtgg cggacaatcg ccaggaattg tactggctag cccagggacc aggcaagtgg 960
 ttgtccaggc cgctcaggaa cccgcgcaag gccatctgga aactcagctg tgcgttgctg 1020
 ggagcaaagg gaaattgtcg atttcaatcg tggaagagaa ggttgaagat aaacattccg 1080
 gcgcggattt agtcaccgca ggcgagggga atgggatgat aacgactcct tcgtactctg 1140
 aggggcctag agaaaggaca gatgagctta agaagaaagg aaaagatcaa cggcaagaag 1200
 aggccatgtt gcagaagatt tgcactgtcg tgatgacgca gctgtcgcct gcgacagccc 1260
 cgacccggca cttagtttca gatctgtcaa tgtcaatcga tgtggcacat aatttgtcta 1320
 cagagacctg gaatctttga catgcttggt tatctatacc caaccgactg attgattctt 1380
 atatccagta tgaattgcct atgtttcttt ctgcgagccg aatatcttgg gtttaacctt 1440
 ccgttcatgc tggggccaat tctccctagt agtggccgcg taatccgacc caacctgcc 1500
 gtttcatatt gacaggccga tcccaggccc tggcagcatt agtgacaaag agttctcgct 1560
 aataaaccat gatctattgg tagtgcagct atgatcaact gctgctgttg agtttgccgc 1620
 tgtcatttgt ggagtacca ggcaataatc agtcattaga tgtacaacaa agccggtcgc 1680
 aagtggaaac cagtggctaa atagcaagtc agatgcagtg cgaaggata tataaacaaa 1740
 ccccaaacy ccagtatgta tgtctatcct gcaatcaaca tggaataaac ggacaactca 1800
 ttccaagtaa atctctctc gtaaccgttg cagattgcgg aagatccgc cccaggccc 1860
 ctactctcc tgtctttgat gcccctcga cccgagatt tgtgtctgtt gactctgtga 1920
 cggagcctca actgccctcc tccgctctc gacgagcttt gctaaccgt ccacaaacct 1980
 caccgcgcc ttctctccg ctgtcccctt ccacacaaa gatagtgtcc gtagagcctc 2040
 caccctgcgc gctgcagctt caagcccacc atcgctatcc agaagctcat tgatctcacc 2100
 acgtagcttc tttgcagctt cctgtccttt ctctcacgc gtctgactgt cgggcctaa 2160
 atctggtgcg gaaacagaga tgaacgagga cgttatcgaa gtctcagacg gtggaagcgg 2220
 cactccatt gcgtgccga aggtctgaac gacttcttcc aagcgcgcc ggacctgatt 2280
 cagggtgca aggttgctga tatactccgg ttgcgtcttt ttctctcgt gttctctcgt 2340
 ctctgtggga tctgattcgt ctccgggtt ctctccgga attgtcggcg tagtagtaaa 2400
 cctcgcaatc tctctgccca gcccctcgt cagcaagtcc gagagtgcga tcgctcacc 2460

gcgaagaacc tcgacttcgt acgcgagccg gttgccgctg cggatgattt catccgtaag 2520
 agaagtaagc gtgcttgagt ggcggatgtt ctgggcattg gtttgtgaca ggatagattg 2580
 gacgcgagtg gagaggtcgg tgagattgac ggcacgcggg tttgattggg attgaaactg 2640
 tgaagattgg agactcagtg gcgggagagt gtcgttgagg aagtcgacgg ggtcgaaaga 2700
 tggatttgcg taatcaggat tgactgtcaa tgttgacgcg gatgttgggg gcggagctgg 2760
 actgggcgtc ttagacggcg tcattgcgct tggggatta tggaaaatgg gaactgtgtt 2820
 tctatgactg agttggcatc tttgaagcag taatttgtcc agcgggactg atggataccg 2880
 tgcctgggct agatcgaccc cacaatgact tctgggggtg ttcaccgcct gccattgttt 2940
 acattgtata cagtggattg cttacagaaa ttatttctact ttgctttagt atctcaagta 3000
 gagtctataa acagtaactg gcgcgggttg gtagtatgtg catctacttt gttgccacga 3060
 caaatggaag gcttcataaa gatagtcac ttgaattcag ataatacata ttaaaggcgg 3120
 gtatcgtgat attaaaccaa aaagcaaagc cacaagatca atcaaaccac aatcccaa 3180
 actactgttg ttcattgccat cgtcaatctc gggtttaaat gtcctccacc acacggcggt 3240
 aatcgcatgc tgaaccatc tcctccctgg ggcggcgcgt agcgctaggc ccttcgccag 3300
 cattctccgc cgccgctagt tgctgctgta cggtttggtt tggcgccgga aggaagatga 3360
 ccttgctgtt ggccgtctta gccatagctt gcacgcctc gagatataca atctgcatag 3420
 caggagcaga agaaaggata tcggcggcct gacttgatta gcttagatcg cgggacaatg 3480
 gcttagcaca tacctgacgc ataagtttgg cagactcgac ttcagcacga gcggcaatga 3540
 ccttgctctc tccgatacgt ttagactgcy ctgccatgga cagcgagtcc tggaggatcat 3600
 cactgaagat aatgtctttg atgagcatag actcgacgtt gacaccccat cctgaagcca 3660
 cttcctcaat gatctccgac gttgactgag caatctctc acgtcgttcg atcacgtctt 3720
 ggagaacacg cgcaccaatg acatgacgca atgtgggtctg ggtacgctct acgagtgtt 3780
 gcttgatgtt ggaaatacca aacgccgcct tgtgaggcga gacgacttgg tagtagatga 3840
 cggaagtcaa gttcagggtc acgttatcct tggatcatgca aatctggcga ggaacctcga 3900
 cgatctggat ctttacgtcg attgtgataa gacgctcact cagcgggttg accttgacga 3960
 gaccagggtc tactgcgcgc tcgaatctat gttatgttag ctgcgcgttt ttcgttgttt 4020
 ttgttatttt cgcaggtcac tggagtgcac gaaccggccg aatcgcgta ccaagccgac 4080

ttcaccttgt tggacggggc tgaaggggtt cgggcatggg cagcaaggaa taactcccag 4140
 tcctccgata cattcaccga tggatgctc tatagaaatc gcttggttag ctctctcgaa 4200
 acttgactcc cttcttaggg ctcgacatac taaacgacgc gtaccagccg tgcgcttctg 4260
 ggttgctatc atcgtgctcg attgtggatg cgtaccgagg ctgcagatcg gacagacgag 4320
 gaggctgtac ctcgacaagg ccataaaatt actgcgtagc cttgccattc acgccagtgt 4380
 tgcagcagtg ttagagcggg gcttgaacgg cagacatgt 4419

<210> 1932
 <211> 2857
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1932

cactccatcc ctctcgacaa ctgtccttct cgtttacctt acaacgctca atatgttttt 60
 caagtccgca ctctctcgcc ttccacgggc aaagtgtttt tcgaacagcc cgggagtcac 120
 ggtcgaacaa gtgagacaga tcgccaagc ctgcgaagat gccttccgca cttacaggaa 180
 actgtccctc gatcagcgca aagctatcgt cgttaaggcg ctggaaatca tcgatgccaa 240
 caaagagact cttgcgcatg agttgactac acagatgggt cgtccgattt catataccgc 300
 cgggtaggta gataccatgc gcaagcgagc caactacctt atcgatcagg cggaggatgc 360
 cctcaaaacg atcccgggac aagaggagaa cggtttcaag aggttcgtca agaaggcgcc 420
 agttggtcct gttcttcttg caaccgcatg gaatgtaagt tgcccaggc tttccgaagg 480
 gttggaagct aaccggtcag tatccttact tgatcaccat caacgcactc gtccccgcgc 540
 tccttgccgg aaacaccgtg atccttcgtc cttcacctca gactcctctt gttggcgatc 600
 ggctctctga atactttgag aaagctggtc ttccctaagaa tgtgctgcag gtggtgcac 660
 tgggttcgtg ggacgttcta gatgaggtcg tcaagattcc ccagatcaag cttgtttctt 720
 tcgtcggttc tactcagggt ggtctccgtc tccgccaggc gaccgccggc cgaatcttgc 780
 cactgaactt ggagcttgga ggcaatgacc cggcttacgt ccgtgccgat ggggatctcg 840
 cgtacactgc cgcgcagggt gtggacggcg cagtctttaa ctctggccag agctgctgct 900
 caatcgagcg gatattatgt catgcagatg tgcacgacgc tttcgtagcc gaggttcgaa 960
 aggagctagc aacgtacgtc tctcaccctg aatcaagaac atcattaacg aatgtagata 1020

caaactcggc gaccctctcg acaaggctac taccactggc cccgtgatct cccatcaagc 1080
 tgtcaagaac attcaagccc acattgacga cgcattgtca cgcggtgctg tggactcgac 1140
 ccccgagaac cctacttttcg cgaaaattcc cagtgaagga agcttcacgcg cccacgcgt 1200
 cctcactaat gtatcgacg acatgcgcgt catgcgcgaa gagacttttg gccctgttgt 1260
 tcctattatg aagggtgcaga gcgacgatga ggcagtggcg cttatgaatg acagtgacta 1320
 tgggtctgact gctagcgtct ggaccaagga tatcaaggca ggagaggact tgattgagcg 1380
 tategaggcg ggaaccgtct tcatcaatcg ttgtgattat ccttctccgg ttcgtggcaa 1440
 aaccactat gcatcgaata tgatactaac tgcaaactcag gacctcgcat ggattggctg 1500
 gaagagctct ggcttgggct gctcgctcgg tccgcaagcg tttgacgcat tctacaagct 1560
 gaagagcttc cacatccgta caaccacgg ttaaataatag ttctgttgat ctcatagata 1620
 tatacataaa catacattaa ttctcacgtc gctgtttata acttttatct cctattaaag 1680
 caagatatct ttacgagga cttgcgtgcg ccactggctc cgttcgtctt cccgaaccct 1740
 gtgacatacc tctcgtgect cccaccctta agtgtgcgac tgtactcgat gccacactg 1800
 ttaccggtct tcacatcaaa aggcacggga ctggtgtagt catgcgtagc ggtcaaccgc 1860
 gcgtaggtct tcctgaccac gtccaggatc ccataaccac cggaacactg accctcggtc 1920
 gcaggaatcg gccactcgta ggtcttctga gagtattcac ccgcagccat ggggtccgta 1980
 tacgaaacat tcaggtacag gttgctcgta tcgacttcat agttcgtgta cccgaccttc 2040
 tcagcaagga aagaaagcag gtttgcgccg cagtcccagc ggcctaaact gggaaggccg 2100
 aagttggcag acaaagacga gatgatactg tagtgagtgt agaagggtgc gtcttccttc 2160
 ccgatgaggt ccttagggac agcaccacca agcaggaaag agaaaatctt attgcctagc 2220
 tcgtaggtgt cgttctcgtc gaaagtaag aggatcagcg tgtcgttggt gaagtactcg 2280
 ttgtccagca ggtcaatcag gaactccac gtccacctac cggagaaaga gatgtccgtg 2340
 tcgtgtccat cgttcgtcat gttcgggtg atgaaactgt actgaggcag acggtgggtc 2400
 ttaaggtcct cgtagaacga ggtgaagtcc ttgatttggc gcaggcgcgt ggggtcctct 2460
 gttattgagt cgtagaggat agcgggattg tgcttacgaa cgtagtcgtt gtctcccgaa 2520
 gtgggataac ggaagccctg gtagccgggg tagggcatgt gttcttggtg ctgcgccag 2580
 gagatgttct tagtgtcgaa catatccgca atggtggaga tattggccgg aatctgggtg 2640

aagtcgtcat tatccataacc gaatgtatcg cctccttggg aagcgcagta gtttggctcg 2700
gagggatgag tgacggccca aaagttggtg agggtagggc ctttctttgc gagccggggc 2760
agatgcttct cgctggcggc aacgtcgtaa tccttggtaa gtggttatta ctttgcggg 2820
tttgagggat gacagcagaa cagagcgta agtattt 2857

<210> 1933
<211> 1597
<212> DNA
<213> *Aspergillus nidulans*

<400> 1933

tcgaagagtc gaccaaggtc acaggccccc cgaggtagag tgaaagtgat ataaaatggc 60
gaccacggcg gtccgagaca tttggttaagg gcccatgaga tatggtgtat tcaatggccg 120
cctcgatttc ttaacctgac gttgaggttt gatatcgga attagagtaa taaggtaaac 180
tttgaccttg gcggtcccg taaacgaggt accttaagcg cgcggttaagt agcgggcggt 240
aagatcgagc ttggctgggg acaaacaaca ctcggtggag tcgggttga ccagcgaaca 300
atztatgatt ttttgacata cctccaagtc tctttgtctt gacgagccg cccttgggaa 360
ggctacacca ccaatcggcc tctatcaatt tcaactctctt ttgtctctcg actacgctg 420
cgccaaaaat aatcccgatc attgatcctt gctttcagaa tgttttctc gaaacccgca 480
accccgctcaa ccgggtctct tatcaacacg aactccgcca attctctctt gtaagagcat 540
tgcccttttc agctaactcg tgcctaaca tacctatcgt tgaaatagtg gtggcaatac 600
gaatcaatcc gcaaatacgc cggctacgac aagttccggg gggggtctat tcgggacggc 660
cgcgacgcaa tcaaagccag ctggtagctt attcggaac actgggatgg gtactacaca 720
acaaactcag tcttcagggt caagcttgtt ttcagggtcg ggtggccagc aaaatagcac 780
gtctggtagc ggattgttcg gcaacaccac agctaccacc acacaacagc agccaggcgg 840
tcttttctcc ggcaactact gcaccaacaa tcaagcgaac agttctggag ggctttttgg 900
gaacacggca tcgggtgcca cgagtcaagc ccagtcgaaa cccacgttcg gtcttggggc 960
tacgtctacg accaataata tcttgtaaga actctcttga acgagcagtc tgtgtgatga 1020
gatggctaata attaatagtg ggtacaaatc cgggtgccgg tcagcaacag caacaacagc 1080
agcaacagca ggctcaaaaa ccgacactat cgctcttcgg aactcaaac accacttcgc 1140

agcagcccac acagcaaaca ccggcagcgg gatctaacac ggatcatccaa ggtgtcaagg 1200
 tggatatcac taaccttctg ccgaccacca agtacgaaag ctgcgcggat gaggttaagg 1260
 cagagcttga acggttcgat accttcattg ttaatcagat aaatatgtgc aacgaagtcg 1320
 ccagtatcct tcctctgggt gcgtctcaag gtagcactat accgaatgac gtggagtatg 1380
 tccaaggcaa gctagaaacg atgcagcatg ctttggaaaa tgatgccagc gatatcgatc 1440
 agctgcgtag cctcgatatc cgggatgcag cggaggctca ggtcgccctc cgtgctattg 1500
 acacctcaa gctacctttg cagtaccagt caactcgggg gttcctgggt ggtgggtccg 1560
 tcaagatcac aaaggtgtcg gattctcagt ccttgcg 1597

<210> 1934
 <211> 2105
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 1934

cttgctgcat attagaccat acacaaacat gtcagcaaat cgatcttagc agttgtaccg 60
 aagtcagtag tggttttaag cggatcaacc gacctgtca aagttcttca agaggttgac 120
 tatccggccc tcaacctctt cttctttaag accggcaggg gcggaataga agcggacagc 180
 cggcaaggca aagcgaggag ccaattgagc tggacgagca acgggagagc tacggatttg 240
 gagagcagcc tgaggcttga cggcacgagg cacagaggcc ctcaatgaac ggacgacagc 300
 ggaacggaac atgatgacgg tagaagggcg cggtgaaaag tgcctacacc cgagttagaa 360
 aaagtcgaca aatagatgaa ggcatacgat agagattacc tgagcagaaa aatggaaaga 420
 tggacagcaa aagggaccga taggagcttt gtctgatgct ggagaggaga acctgaattt 480
 ggcgttgcca acttgccgct tcggggaaag caaaatccct tgcaccgacc aatcaccgcg 540
 cggcagaaac cagtgcata agccgcctgc aaaaccgctc ccagcaacga ccggccttcg 600
 agatcctcca gctgctccag ttcgaccccc tcccccaatt gatcttcccc tcaactcgtct 660
 ttcatacgac gtccgtctgt cgacatcccc atacacagat ggctacctcc agatctgtgg 720
 cgagactgct cgccttccga cggcctgtgc cctccattgt gccttcgtat ctcttcgtcc 780
 cgaccgcaaa cttctcttcc tcgggtgagcc gggctgctac accgtttgga cctcctccat 840

cgggattccg ccttcctccc cccaagcgat gggatcagga ccccgagtcc tctttggaca 900
 aggctagcaa gtacttcctc atggcggaga ttttcgggg aatgtacgtt gttttggagc 960
 aattcttccg accaccgtaa gtcttcctcg caatcggcat tggatcctgt cgagagaggg 1020
 tgtgcgacgc caccagctcg attgaacgca ctatcttcaa gagtcccaaa tatactgtgc 1080
 taatgcggct tgctcagtta cacgatcttt ctacccttc gagaaggggc caatctcccc 1140
 tcggttccgt tggatgaacac gccctacga cgnctatcct actggcgaag agcgtgcat 1200
 tgcgtgcaag ctctgtgaag ctgtctgccc tgcgcaggcc atcaccattg aagctgaaga 1260
 gcgtgtggat ggaagtcgcc ggacgaccg atatgacatt gatatgacca agtgtatcta 1320
 ctgtggctac tgccaggaga gttgccccgt cgatgccatc gttgagagta cgttttccac 1380
 atcttattgt tactggactg tctgtgaca agtaatccag ccgccaacgc agagtatgct 1440
 actgagaccg gcgaggaact gctatacaat aaggagaagc tcctcgccaa tggatgacaaa 1500
 tgggagcctg agattgcagc tgctgccaga gccgatgcgc cttaccgata aattattcag 1560
 tgtctttatc ggacgatatc aatgaatgga aaaattcgtc aaagaaaagc ctgtattgcc 1620
 accaactgat taccaggatg ctttgccgca ttcaatttat ttcttccca cctgtacat 1680
 aactcatgcc gtcgtcaca ctcttcctcc tttagtactg ctatgtattt tgacggattc 1740
 gtagggatat ctgataccta cctagtctcc gctcggttgt cttttctgta cctgtgatag 1800
 aagagatttg tgttttaata ttgttaggga tcaattgagc tatttccttt gttgcattca 1860
 ggcgtcacga agatcaagcc aaagaggctc ttagttaaat aaggttgact actataagtc 1920
 atcaagtcaa tacacagaac agcattgaac aaaatgcctt tattgtatca acaaactcgt 1980
 accaaatgca tatgtgcaca agatgacgga atcccattat aaaacaaatt ccaaacacc 2040
 tgtctccaga gccactctg acatctgttg atactgcgc acagaaagtc ctaacggaaa 2100
 caggc 2105

<210> 1935
 <211> 2308
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 1935

ccacaaagtt gaccggtggc ggcgcagtag tgactgacaa gggtcgtagt ttcgtcgagg 60

tttggtcttg cggatgccgc caatctatgg ctctgtattg cgtaaaatag tcgctatcag 120
 cttgtccata aatgtgggtct ctccagacct atagcggaag ttcccgactg gagtcctgga 180
 gatgccggag tacacatcga gcctatcgcc gctatcaccg caaatcgctt ccgcgaagaa 240
 gagttggact cgcagtggtc cctccacctc cccgtcccat tggagcttgc ctgagggacc 300
 ttggggatgc attctgcgca cccatgagtc cgggtccac atttcctctt tgctcgaacc 360
 gcgggtcgag tagtcaacaa cttgccgcat aaagcttaga tcaaaataat tgccttgcta 420
 aaagcgggac cagagcccag acgaggctag cagcagtttt agccctcgtg ctagtctctc 480
 ggaccgaatc caccgctgcg ctactaaagg gctggactaa atggaatoca cgggcctctc 540
 tgcgtctttt gtgtggttgc agtggctagt tccaccgata atccttctcc aactgggatg 600
 cacgtgtgat atctggcgcg cttggctatt cccatgcttt gcgatcgacc tctgcagacg 660
 tcgaaaggac agttcgagga gggagaccag gcgttgaaac ttcgagtcca aatccaatag 720
 cttccggggg gagacgatcc attccttgcc tcaggccac gaggttgac gataccttcc 780
 ttaataggca aatgaacgtt acgtccacgg gtccgctaag gaatcatcgt ttaccccagg 840
 attggcatcg agacagtcgt ccatcccgt tccagtaagt ctcatctag ccagcaaggg 900
 tagccaggaa tgcaagtcgc gaccggcttg agcttggtga tccgcaacga cctactaagt 960
 gttcagtagg cctatcactg gatggtgatt ttcacccctc attgcccac ctctcgtcct 1020
 tcggttcgca tacaacgcag tggatatcgg atttgtcagg acacttctaa acgctattat 1080
 tagcgccacc ggctcttcag actgttagcc gacacaatac ggacctgaa ctactcagat 1140
 aggcgcgacc agggagatac tgaagttcca ttttgatggg tcggcattat tctggaacgt 1200
 gaaagcgggt tcctgaacgg ggccaaggat ttggaattca acggcagcac cgagagtcgg 1260
 tggcaatgac gagcctgaac atcaaatggt aatagtgcg catgatagac ccaaagcagc 1320
 ggtaatggaa ggttcttgga atactccaaa gccactatcc aaagcctatt ccgactctat 1380
 tgacagacgg tcgtctcgat ggttggtgca gggtgacctg agtggtcgac ggcgacgcg 1440
 gtggaggcgc ggagatgagg gcgatagcgc gtttcagact gttgtagctg gtcaagtgtt 1500
 aactcaattg acaatttcga gcttgcttct cgctttcaat ttctaacttt gtcacaaaag 1560
 aatcacgact cattgctctc caccaaatta tcggcttggc ttatgagagt ttgtgagtta 1620
 cgaagcactc actggctggc aaccgtaag accatcgac tctgtcccca ttccccgtac 1680

atgccctctc ctaaacccaa tatcgcgat ttcctgtagc ccagatagc tcgtcggatt 1740
 cttattatcg tatctttggt acggtcggat ccttcgcccc ggatgtctgt gattatgcag 1800
 gtcagggtccc atcacgggtgg tttctccgcc attatcctca caaacataat gagactctcg 1860
 aattggggccc tggaaatcgc tcgtagaccc gcaaatctga tctcgactgt tctacttgaa 1920
 ttgtgaaggg atgaggcgctc gggagaacgg ggaaggctctg gcaacgctct ctcaaatca 1980
 gtatcagata gcagatgata cagcgacttg ctcggcattt cgtaacgtct ttttttttct 2040
 ttgctttttt gttatcttca atcagaatct ttcgactaga cccgtgctcg ccggacggtc 2100
 acaccagtca agtgcaacgc gccagtaat cgccattttg ctgggttcgt gtcaaaagca 2160
 tctcactctc ataagaactt tctttgacgg agcgacggcg gaccaaacc cgacaggaca 2220
 gttgaacggg gattatcctg gatgaagaga agacnagagg tgnagagaag cctggcctga 2280
 tctgagcgtc gaaaggcccc agcaaatg 2308

<210> 1936
 <211> 2687
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1936

ggatccgaaa gcaagggatc taccctgagc caagctgacc tgaaactgag cgagctgtca 60
 gagctcagga ccaggaccgt ggatgagatc caacagcaca cttatactgc tcacgcagtc 120
 tgacgttggg acaaggggat gtacggtaag gctacgaggg cacagccgca gggtaccaag 180
 gctcgttgta cagataccac aataaacttg cgggttgcaa atcactgcag agttttcctg 240
 gttgccactc acaggcaata cattgtttgt gggacgcaaa cttgatgcac tgcgctgcct 300
 gcactgcatg attgtgaatt ccagatgcat gagaatgcat tatgttaagg gccagagaaa 360
 tcggacgctg ctgcctagac gcttggttaa gtgtaaagaa gttcaataat gaagtttcaa 420
 gggtcagctg gagccctaca agtctctcgc acttgctcgc tccagaagca ctgcacagtg 480
 cactcaccat aactgtattt ttggagagcg cgggccaaaag cgaccagtcc agccagacgg 540
 tcgacagacc cgggggaggt ctggtccctg ggacctcggc ttgctgtcag tgggtgggat 600
 gatgtcgcaa aagggttaca taaacacgga agttcggcgc ttcttattgg aaggtcgcaa 660
 cactaaagat aggccggacc ccacttccca tctcattggt gcttttgaca ccaggtactt 720

ttttgacatg acggttcgcg cgggacgagg gctggggata ggacggacga tgcataaaaa 780
 gtgagcactt taggtctttg aaattcggat aagcctgaga cggcacggag atggtaagga 840
 taccaagggt gtcaaaactgg tgaatcttgg atatccaatt cgtggtactt tctcttcggc 900
 tcggccctac ctgctcccca aattgagaat ggctagaggt tcgacattat tggagcttgc 960
 agtaatgaga agcctaccga cggccggttag tccggatgta tgttatccac ttcttatatt 1020
 aaaaaccagg ctttgaccct tcgacatcgt accatgcaga agctacgccg agctagaata 1080
 atgctagctg ctccagacgc agagctagaa ggcttcgaga agaaaacggc ctactttcct 1140
 gaagaattcc agttccacct ttttgatgaa ggctcggaga tataccaggc cgctgtcact 1200
 actgtaagggt cccgttccat tactgggtcc atctcatacc gtcgctgcca ctgtcgcgca 1260
 ggtcacggca agtcatatta ggttctccat aatcatatgg ttcaaaccgc atgattatga 1320
 agctagaagg ctccagaag gacacggcgt gacatccttc atcccctagc tctagcttta 1380
 cctaggatct tggccgacac tattgtacc cactctttct aattgaaatg gtaggcactc 1440
 cgagaatacg taccgataga gccgacatcg agccatgctc tgtacgacta cggagctgga 1500
 agctccatta ctgacgctag aaggcttcca gaaggaaatg gcgccattct ctctacatac 1560
 cgctagcgag ccgaacggag tcgaagtagc aagtcaatta cgtacttgcc ttccagttgg 1620
 tggcaatgtc gcactacctg cttatttcga caggcggtag ttgggactag ggccctcagaa 1680
 tcaggccagg cgccatgctg cgcttctcag actcgagctc gagacctcga acgtttgatg 1740
 cctccactac aatgatgctg cgggtgtatcg ccgagatttg tttttgtagc cttgtaagggt 1800
 aaaatagacg aggggtaacc taacagcatt gacggcaact cgaatagtag tgtcaacggt 1860
 cggctgcggg aaccgaagag tgagagttga ttaaccatcg acgacctgaa cactcaagat 1920
 tcaccgtcat ttcttagcgc ccaacgcca gaggaacc gttgtggcac agacgttaga 1980
 gaatatgacc ggtcagcaga atatccttgt cgtcagggtc tgcatacagac tgcagtttgc 2040
 ctggtcagag aacgataagt gatagataag cgctaact caaaagtagg agtaatggct 2100
 tagccggctg attgcgcgta tctgacgaca acaacggtta tctatcatga taggattggg 2160
 tgagctcgaa tctgacagtc gcaccgcgc tgaggtggaa aattgtcgt ctaccgcagg 2220
 taccgacgcc gtaccgcgat gatcgacgcc gtcaagccgc cttgcatgaa tacggtatga 2280
 caggacggct cgcgctcatc gtcagcacct gattttcgag tcccgcggtg cggatgagat 2340

gacatgacag gtcacagaat ctccactcac ggcggataaa ctaacaaaag aggatatcaa 2400
accttcccaa aaatgcagtc gggatcgcaa tccgcgtgta gcgataactg gcgagggact 2460
ttggccttga atgttggcat tttctggtga tctgatactc gtcgcgcgca cgaggttccc 2520
ttcggggccag tgatagtacg cgaatatgac agctgccttc ccgcacaagt ggggtgcccga 2580
gacccgccgg gtcccttaca tccgtttcac tttgctttgg gccttttcga cgctcaggat 2640
caggccaggg cttcttcttc acctcttggt cttcttcttc atccagg 2687

<210> 1937
<211> 1589
<212> DNA
<213> Aspergillus nidulans

<400> 1937
accacgtgtt ctcttttata tttcctttgc agaaggcggc ctatgtactt ctatttggat 60
tcatcaacat ctggaccgtt atgattcacg atggtgaata cgtcgccaac agccccgtta 120
tcaatggagc cgctgtcac actatgcac atctttactt caattacaat tacgggtcaat 180
tcaccacttt atgggatcgc atgggtggca gctaccgaaa gcctaacgaa gagctcttcc 240
gccgtgagac aaagatgggc gaggaagagt ggaagcgaca gaccaaggag atggaaacta 300
ttctcaaaga tgttgaaggt gatgatgacc gcaaatatct cgctgaggaa gatagcaaaa 360
agaacctgtg aatttctct tggctgaga cctacagggt tcggcagtca atgtctcaat 420
gcacctgaca tggttctgta atgtcactcc aacggaactc gtttcaagtc gcaaaggctg 480
gctctcttac ttgtggctca cgaggttgac gtttttctta cccttgctg cttccttcta 540
ttcctgcatt ctatctgca cataaacctt attaattgca cactgtacag caccggtacc 600
agtattatac taatcattct gtcaacactt tttctgatat gtcagcggat gccgtggtaa 660
accaccactt tcgattatca tcacagcggc gtagttgggt ttaaacttta tttatggcct 720
tggttttcga atgtacatag ctgaatacaa gcaacatttt aagtaaaata tttcaccgtg 780
ctactctgac cacttggcac tcggaactgc aggaccgact cagctaagaa gcagcttagt 840
gaaggcaagt tctatgtaca caacgggtca gttcgccttg cttgtaaagt acctgagatg 900
aacttaggat ttgcctctca taggttgat aataactttc tgtttttgct cagagtctta 960
caagaggcat ttgtttgcaa ttaccgctat acatatttaa attcagaata aaaggtaaa 1020

gcgacaagga tcagatacca gccgtcctat ccgcatccgc atcggcaata tccatatcac 1080
catcgcccgcc tccatcccca gggacacttc catcagcagc agccggagggt ggggtcgggg 1140
ctttcgcccc gacaggtggt gcgctggaca tagcctggct aatgaaggct tcctcgacgc 1200
cggccttgcg acgaaacgcg cgaagccagc gtttacccca ctcacgaatg atttcgtcct 1260
cgggcaaadc gccgctgccg tcaccacgtt ccatgagctg gtcgttgcta cctccggcca 1320
cagaaacgac ggagtcttca atgacctgga aaagggcggt catatccttc ttctcacggt 1380
taagagtttc atcaagtaca cttagctgag gctcatagag acctggctgg atgcgagccg 1440
cgacgatctg gcgaaggcgg ttggtgactt tgccgacagt agcagagatc atttcgaaga 1500
tgtgggtttt tgcgagaata gtgcctgcgt ccaagtggtc gaccagcgaa caaacaatga 1560
cggaaagggg tgtaggatt gtgtgttca 1589

<210> 1938
<211> 1592
<212> DNA
<213> *Aspergillus nidulans*

<400> 1938

acagcggatg cccgaaaatg gcgctctcat cccacgcgc cttccagagc acattcaaag 60
tgacactccc cgacagacag gtccaaaccc cttaccacgc acggcgcgct cacaagaagt 120
cgaggaatgg ctgtcttgtc tgtaaaggcc ggcgggttaa agtgaatatc ttgcctcctg 180
cattatttag ccagcggcgt tctgacatat tggaactagt gtgatgaacg caaacgcaca 240
tgcttgaggt gtgagaacta tggagcagcg tgcgtctacg cttcgtctca agctacatca 300
tcatcatcgt catcgctgcc gtcgtcgtct aggtccagca gtattctgcg tagtgcgact 360
gcaagcacia gcaaacttac gccaccaaac aacacactaa cgtctctgtc catctccgac 420
atggtcaatc gcgtccggga caccctaggc aacgatctag ccttggctcc tcggacaatt 480
gggaatcgcg atgaggcact ggatctcgca gtcgactcgt tccggttctt cttgacttgt 540
tcagtaaaca gcatttcgac tccgcagatc tatcaggtta tgaagcgca ggtggttcat 600
gtcgcgtttg atgtgcgtcc ttctttaaaa agccccctgt tttctcccat ttggctagat 660
tcttacgtat cttactgtag aatccgtatt tgatgtacac actcctcggc tcgggggtcc 720
tgcacatgaa ccgtgtatca ccaggcaacg aatctcggga gctcggcgag gcgtacttct 780

ggcagcgcgc agtgcaacta tactccgcag cactgcagca ccccatcaac cagcagaaca 840
 tttccgggct gatatcagcc agcattctca tggcggtgac ctgcctcgcc ccgctcaagt 900
 tcgagatgca agactcctgg gtctttactg ggcgaggcag cgacctgaac tggctcgcta 960
 ttcaaggcgg tttggcggtgc atccttaaac atgcgggaca atacgttcct gggagtatat 1020
 ggggcggtgcc attcagccag agtcacgaga tagagagtca actcttccgc tatgagatca 1080
 cgaaggggcy ggagggtta cgtccggacc tagctgatct atgtggtatc accgatgaga 1140
 ctgacgagca gacaagtctg tattgggccc cgatcaaact gctatcacc tttatggaac 1200
 ttgaggtcaa cgcacagatt gcatcgcagt gcacgacctg gatgggaagg cttgaaccgt 1260
 cgttcgtgaa tctgtgtcga gagcgcgacc ctgcgcacct agtaatat tgcgtattgga 1320
 tggggctcat gtgttcgatg tcacagtggg ttccctgggt ggagggaagg ataaggaagg 1380
 agtgtattgc tgtttgcatt tatttagaga gtcttggcga tccagttata cggccattct 1440
 tggagtttcc ggcggtgcg gcgggctata ccttgatctc cttatgatca atgttgatac 1500
 aggctttaac aagatatgag aaattgttga cgacgtgcct aattgacata ctagctagca 1560
 acagcttaga gaatagattc tgatcaccta ca 1592

<210> 1939
 <211> 2886
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1939

ttaacgttcc caatgcctc caccgtaata acgtgttcc catcgacagc aaccagcggc 60
 gcaatgcagg cgttgatgga ggcattgtaa agcttcttgg tagtcggatt gatttgcgaa 120
 acgacctatc taatgtcagt gaaactgata gaacattatc caccaacaac ttacaaccgt 180
 gcaagcacca caaccacctt ctgcacaccc tagttttgtc cctgtcaagc caatacccct 240
 caggatttcc agcaatgtga tttcggggtc aacagagtcc aagataacct tgggtgccatt 300
 aagatagaag cgaatgggtat cgtcccatc ttcagtgagt tgcaataacg aggccgcagc 360
 tttcggcggg gaagctgcct caagctccga ttgcgacggt tgtaataaga caccgggagc 420
 catgatggtg tcgtatatga ttgctccaga ataacgtacc tgaaatcaac atcaggaagg 480
 tggggagagg aagagtttaa tatggccgag tgcttgataa gtaaggtct agatggagcg 540

cgggggatcgc cacagtccga tggaaaccgc cacactctga ggtcatccac ccaatcgtgg 600
 tcggcggaat gcggcgtttg taatgtctac tccaaatagt actttcatga ataccacgtt 660
 atcagtctta cgctgtaggt atgttgacta tgcgttaaac attaaaaaca cctgtcttag 720
 acgtcctggt accttatcta ctctgcctt gcagcctgag gctatagagt atttatcatg 780
 tgaccagaat atactccgca tccggcaact ggagcggaca tcacgatcga cgaaacaagc 840
 ttgaaagagg tcgtgggctt tcatcatgga gctgctgttc tcagtagcat gctcactgct 900
 ttctgatttc tcagtccaac ccccgtaatg gggtgattag tctcgatcat cgccccctcc 960
 gctccccctc tcatcccgtc cgatcaatca ctccctctaa gatcaaaatt ccgtttacgc 1020
 tttttttggg atcattccag tgtctgagcc ctatcatgat tgctcgacgc agtacatccc 1080
 tccttgcgat tgttttcttc gtgcggtta tattagtgat tttctcgtct tccccaaagc 1140
 cggttccgga agcgcgcagt gaagagatat cagcagccgc caaatatgtc ccgaaattcc 1200
 cttcgttgaa cgatctgcac ctgccgacct ttcagccgcc ggcgcataaa cccccgagc 1260
 tacagcaaga cagttcaagc ggtgattcaa agtgggttcag tcaactgggaa tggctcaacc 1320
 ctttctcgtc ctccattacc cttgacgaga atcgggtccgt actccctccg cttcccaatc 1380
 ggccgtatat atttacatac tataaccgga agaagggcag tgatagagag gaggagaatg 1440
 ccgatgccca acttcttttt gcttggcgtc gtgcttggtta cgctcagggc ttccgacctg 1500
 tggttcttgg tcgtgcggag gctatggcca atccattata tgagtcaacg aagcaattgg 1560
 atttgagcct tgagctagaa gaggatcttc tcaaatggct tgcttggggg catatgggag 1620
 atggtctgct tgccgatcgg ctttgctttc caatggcgag atacgacgat gcaacactct 1680
 ctacactgcg tcgcggtgcg gattcagatt tcatcacccg attcgacaag atacataatg 1740
 ccctgctctt tgggaagaaa tctgttatta acgccgtcat tgaaaaggca agcaaggagt 1800
 ttgacaaggc aacaaaggct ttgacggact tgataccaga tgatctgtta aagtccgaac 1860
 agaccaactc tctagcactt tatgactcgg ctaccattgc ggcgtattac cagcagctta 1920
 ctgcagaggc tataacctct ccgtcggtec gccggcatgc cctagtagat ctcatcaatt 1980
 cccatctgca gaatacattt gtgaactcgt tcccgggagg aatagccgtc ctgaaacctt 2040
 atgctgagca caccactgcg ttggttgaac cagccttaag acttgccaag gctcttggcc 2100
 aatgtcccga ctctgttgca ccacttctt gccctccaaa tctgcgaaac tgccaccctg 2160

gcaacacaca caaaccaatg aaaatcagcc aaccgcgcac atacaagaat accacccagg 2220
tcttcacaat aggcattctg ccgcacccat acaccttcgt cagcttacta caaaactctt 2280
cggaagttac aacgcggtac attcgacgcg aaacttcccg cgatgcctgg ctcaaagagg 2340
tgaccggcga ccaaattggg cgccaactag gcgggtggggc gagggccgctc ttattcaaga 2400
aagtcgtcgc tgacgagcca gctatcggca catcgctatg gatgacgggc gagtcactcc 2460
ccgctgaggc cgccagggcc ctaccaagcg aactcttggc cgagtttgaa tggcagtttg 2520
gattccggat cccacgtgac agcaatgtag acgccaagaa cgaaggcgat gccaaaggaat 2580
caatgcagca tgccaacccg agcaaaaagg gtgttgagag agagtatacc atcatccaag 2640
gagctaggga tatgctaaag agaaagaccg actccaaccg ggtcaatatc cgcgggtgtgg 2700
ccgagggcgtg gaacatggcc gatactgagg tctggcgatt tgtcaaggcg tacagagcgc 2760
gaagtatcgt cgaacgtaag aagtgggagg aggaagagaa gagcttcttt ggagcgcgctc 2820
cgaagatata agacactaga atgcggtata aaaacgctag tataggaaaa taatgacttg 2880
gcattt 2886

<210> 1940
<211> 1472
<212> DNA
<213> *Aspergillus nidulans*
<400> 1940

gatcgggtggg gcttaaattg ctttactcct taagtcggcc taaaatgct agacttgctc 60
ttcgggtctgc caacggggccc gattaagtca tgtgaccgag ttccggcatt atttgatcag 120
tccgattcta tgatgtaaat agacgatgat attaggcagt aagcgggtaca ggactattct 180
tcgctcctat ggtagttaga agtcagtgc atatatatt gaatctcggg tatttaggta 240
tgatccgcaa cgctgatcaa aatgaatgtt atatacttgg agcccgatgc ctataattcg 300
atttatacct gtcactggcg tcgagattcc aatctggctg actatatattga acctaattgaa 360
ttgggtggta catcacatgc agggccaatg cttgccatga atcctatgtg tcttccgctc 420
aagttgttat tatcatcatc tgagctgtat aaacaaaagg aatgaagatc tcaagacgca 480
gtgaaacaag gtgactaggc attcaatcag tgtatctagg cccgtgtttg agttgctaca 540
gtgctacgta cggtagtggg gatttggtt ttgggatagg atggttctac tggcggtagg 600

gaaagaaatg gctcgttgac atggaaggct tgtatttcag tcgcactggt attactgcc 660
 tctctcgaac ctaaaccac atcattcttc gtcacgtag ttttcacgct cctcaaactt 720
 cataaaatct tctggagagg ctgcatctcc cattatgacg gaccaagcat ccttgaccaa 780
 gtcaatcgta gaatcatcga atgcaaggtc taggctaggc gcagggaacc ggatgacatt 840
 gtccaatagc acgttggcgg gacgggtagc acccttaacg gcccgccaa gctgtgtgta 900
 acgaagtgc cacaataccc tcgcattggg cccggcgctg gacttcagta gtctatctat 960
 agcatccgcy atcaaggatt gcccttgac gccagcaata ctgacactgc cgtataaaac 1020
 acctattgca caaacatcag tacgcaatga cgtcgaaagt aaggcgagta atggataaag 1080
 aggtgtgcc ttatcagttc gtagaattct caacaatgca aattcaggca atgtagataa 1140
 gttttgggaa aagtcacatc agaaaggcga ggcgcgga taaaaagaaa tgaagatggg 1200
 aacctactct gacctgtcgg acactcggca gtctcactag agtgcacgga tatatagacc 1260
 gggggcgact cgtcagtaag cccgagtgcg ggggctggga atactacaac agccccggca 1320
 gggactggac caccctctgc cgtaacggga aacaggtcat caagaggcga tgacacaatc 1380
 gtaattgacc gtgagacttt gtcacaatca cacagggtgt ttggcgggga aggaagatcc 1440
 agtcggaacc gccacatatg tactgctgat ga 1472

<210> 1941
 <211> 2993
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1941

atttgacact ggtgggggtc gtggggacgc cgcacatggt tccgcacatt atccatccaa 60
 ggggtgcgcy atgcactgtg ctccgtcaat ctgcaatggt ctggactccg agacagactc 120
 gcaacagccg gtctctcaac aagagcctca cgggcgcgac cgccgaacag ctgagcctct 180
 gaggttcggc cacttcgggt ccgaatgcag atcatccact agtgcgtgac acaatctgct 240
 taataagcaa gacatacatt aggcgcgttt taagggggag ctaatgtatc actatttatg 300
 ctgcgctctg cctggttcca gttgccgaac tcgcccgcga tgggtccgta tttttccaat 360
 cgattggctg ctggagtgtc atcaggtaca actattctta ttagacgctc ttgggagttc 420
 tctggaaact ctatttcata gcctgtccat accctatcag ggcccatgtc caagctttgt 480

gaagtccatc tcttttgcgaa aatcaagcgt atatatacag atgtcagtct atcaatgagg 540
 tacgtaaagt gaccattcta cctccgaaaa tacctactca ggtagatctt actccatgag 600
 gttcttcgac aagaatgagt ctgataaaag cggtacagaa cggatatgat tgacatgaaa 660
 gcaactgcc a gccgagaagt attcagctga atctctggag ggtaaataatt cgggtcttcg 720
 cactgaaata tctctatctt aattcagccg cgatactgcc catgtgccag cgtctcggca 780
 cccttcttat caatacctct atgccgcttg acgtaaagtg gctgggtaat tctgtgtata 840
 gctgcatgta tatggcccca atagtgggaa aatacagcgc taagtagcca caacgcgcag 900
 ttgagtcgct aggcggagga gagaaaaaga aatgttatgc gttaatgaac aatttgcgca 960
 tacaagtgac tgggactgca atgagctctt ttaggaaata atgaagaaat ccgccgcttc 1020
 gaatgcggtc ccatggtctt gtggtgcttg gtgagtggag atcgcgtagt gcattcgaag 1080
 ttggtttag agcgccagat aggcagggca gtagatggat gaaggatacc aaggggccag 1140
 tgtatcatat cgggttctca agcataatgc ttgaatttct gaaattttcg ccagttattc 1200
 agaatgaatg gatcatcccg gaacctgcc cctctccgga tgggtgcat gccaaatggg 1260
 ggatttagtg tggtegtgat gtcgataccc tgggtcttt ctactaccag caaaacgagg 1320
 ttgcgaagaa agaaaccgga atcggttcca gcgttgctgg aaggcaaggc cccgaccact 1380
 ctattacag tcaagcaatt cgccaggaag atggcaaagc attttgcgaa ttgatctgga 1440
 ttccctatct tcaatctccg tctggtttat acctgggcac tccatgtagc ccgtccctg 1500
 agaggtagct gcgtgcacat agttggaatc gccgattcga tttcagtga gtagtccagc 1560
 cgattccgcy taaatagcgt gggtcacgt ccgcttactt cttctgctct tgggtgtccag 1620
 cttgctagct tagtgttggt ggtagttag gtcgaacctt gacaatggaa cgaagctcat 1680
 cttgcctatt tcttggtga cggacactgt ccattgcc aattcgggag attaggcagc 1740
 cgaagaatcc caatacacac caggtagat atctcccttg atctgcttcc atagcgatcg 1800
 aattgcgttg gggttttagt taacagatgt ccaacagcag ttaatgagag attgtttcat 1860
 gtcccacggc cgtcgagctc tctcgcccag caaaatggga ttgtacaagt ccctgtagtt 1920
 ttatagggag aaagctcaga gtgtcggagg gaggtgaagg gtgagagatg gcgccttgat 1980
 ttctgttcag aaattgtgcy actcgtaccg aggcagattg ctgaggcagt cagtccatct 2040
 tcagtccatt cagacgaagc tgtgcctcca ggcattctgc gtccttagtg taggaacagg 2100

cccaagatgc tacttactga gtggacaaaa gcatgatttt gtaagatcat ttgtacacag 2160
 atgtgattca tagcggaatt gcctacagca cgtgagggcg caaactgaag ggcacactga 2220
 gagagcttgc ggacctcgga gcggttatTT cctcttcacc acctttcggt ctttataacc 2280
 atccccacct ggtcactctt tactcatagt ctaattgact ctagctttag cagttgctta 2340
 ttttattctt aaaggagagt ttggccctgt agacgagatc ccaattcgcg tctgctactc 2400
 caaatctcca gcctattcgt cgctcacaca gcctcgctat ctgacatcct cggctcttTgt 2460
 gcaactgtgcc cgtctttcaa catgacggcg tctcccaatg gaacagacta cttggcatca 2520
 tacaccaagc tttcctcctg catctatgtt catgaaccag accactcagc cgacgacgtt 2580
 ggcgactatc cccggacaat cgtcattgca ttctggatga acgccttctc cagatcgcta 2640
 gccaaatata ttgttggata ccgacagctg gctcctcgag ccagaatcat ctttattcga 2700
 acgtcctctg cagaatttat tctgcgtccc acaaagcggg ccagtatgc tegtcttgca 2760
 cctgctgttg aagacctgct agctcttctt gccgacagcc ctgtgcttat ccacatgttc 2820
 tcaaattggag gtgtatttgc cataacacac cttctcgaag cctatcaaca agccacaggg 2880
 catecgctcc gcatctcgtc cacaatcatt gatagtgcac ccggaacagc tacacttacc 2940
 gccagtttca aggcgttttc tttgtgctt cccaggacat ggattctccg cct 2993

<210> 1942
 <211> 3877
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1942

tgtgtttctc atactccagc gtggactggt tttatccatg atatctaacy agacgatccg 60
 agataagttc taatacgtat acttgtgcca ctctactacg gggcctgatt tagacctggc 120
 tagcggttat ttttaggtta tgcgacgcag agtgccgccg agtcttctcc tgaaatatat 180
 ccaagtgaca agatgcccga ctgcaggcca caacttacca ttgaagatga aacgaaatag 240
 tccgagctac aacgttaccg aggcttctaa acccaggatg gaataaggaa gcttcgaatg 300
 gcgtaactct ggttgccatg ccctttcctt ccataagtac gagctctttc catectggct 360
 ccagagttag gccctttgcg ttgctcgatt cgtcagcagt tatggcgaat tccacgtcca 420
 gcctgaagat atttccttac attcacgggt gcctaggcgg agtatattgt ctagcctgca 480

tatttacctt gacagcagat ggatgtcccg aacgtcaatc cgacaaacgc ttctgggggcc 540
cctcctcccc ctgccgtgca aactgacaat atggatacca ttgaagcgaa gactgtcctc 600
atatcctcag aaaaaatatc tccattgacc tatectgatt gtgatgatga tagagagcaa 660
gatattgacg acctcatcga cgaacttgag tctcaggatg gactccatga taatcctagt 720
cgaaagagta tggactctgg aagccggatt cctgggtatgg aggcgcagtt tgacaccgac 780
ataacgactg gtctcacttc tgtcgaagcg gcacagcgcc gcaaaaagta cggacccaac 840
cagttgaaag aggagaagga gaatatgtta aagaagttct tgtccttctt tgttggcccg 900
gttcaattcg tgatggaggt cagtaacaga gtcattttg cccgacttcc atcatcgctg 960
acgctgattg gtcatagggt gctgcaatcc tagctattgg gcttcgagac tgggtggact 1020
ttggcgtgat atgtgctctc ctctctctta acgccactgt tggcttcac caggaatacc 1080
aagcaggatc aatagtggag gaactcaaaa agtcgttagc tctcaaagct attgtgggtcc 1140
gcgacggtcg agtaactgac attgacgcca ctgaagttgt accgggtgat gttctgaaga 1200
tcgatgaggt attaccata ttgtggctga ttgaagacgg cgaaggctga ctctagcag 1260
ggcacgatcg tccccgccga cggccgtgtt aagacgaacc atttactgca aattgaccaa 1320
tcctcagtta ccggcgagtc tctagccgtt aacaaatgca agggcgaagt ttgctacgct 1380
tcattctgtg tgaagcgtgg ccatgcgtat ctcgttgtta cggctaccgg tgattacaca 1440
tttatgggaa agacagccgc cctgggtcaag tctgcgtcgt cgaattctgg ccattttaca 1500
gaggtactca accgcattgg tgcactctt cttgtgttgg ttgtactcac cttgatcgtc 1560
gtctgggtgt cgtctttcta ccgttcaaac gagaccgtta cgattctcga attcacactg 1620
gccatcacta tgattggagt acctgttggc ctgcccgcgc tcgttaccac aacaatggct 1680
gtaggcgctg cctatcttgc caaacgacag gcaatcgta aaagactctc cgccatagaa 1740
tcgttggctg gggtagaggt tctctgctct gacaaaaccg gaaccctaac caagaacaaa 1800
ctaaccctct cagatcccta cacagtcgct ggcgtggatc ctaatgacct catgttgacc 1860
gcttgtttag cagcttcaag gaagctgaag ggcattgatg ctattgataa ggcattcatt 1920
aaagcacttc caaactatcc gcgcgctaaa gaggtctctc ctattacaa gattcagcaa 1980
tttcacccat ttgaccgggt ctccaaaaag gtcaccgcgc tgggtgttatc tccagaaggc 2040
caggagatca tctgcgttaa gggggcgctt ttgtgggttc tcaagacggt ttcggaggag 2100

cagcagatcc cagagagtgt cgagaaagga tattctgaca agatggacga gttcgcccag 2160
cgtggctttc ggtcccttgg tgttgctcgg aaacctgcgg gtggggaatg ggagattctt 2220
gggatagtgc catgctctga ccctccacgc gatgacactg cggcgaccat taatgaagcg 2280
aagacgctcg gactatcgat aaagatgctc actggggacg ctgtacccat tgcgcgcgag 2340
acttcacgtg agttaggggtt gggaaccaac gtctataatt cggataaact cggctcttga 2400
ggcggcggtg acctgactgg gtctgaactt tacaattatg ttgaagccgc agatggattt 2460
gcgagaggtt ggcccagca taagtataat gtctggata tcctgcagca acgaggatac 2520
ttggtggcaa tgacagggga tgggtttaat gatgcacat cgctcaagaa ggctgatact 2580
ggaattgccg tgaaggcgc atcagacgct gctcggctg ctgctgatat cgttttctc 2640
gcgcctggcc tatcagcgat tatcgacgct ctgaagactt ccggtcaaat attccacgc 2700
atgcatgcat atgtgatcta tcgcacgcg ttatctctgc atctcgagat attccttggg 2760
ctctggattg cgataatgaa cgaaagcctg aacctgcagc ttgtgggtctt cattgcaatt 2820
ttcgagaca ttgcaactct ggcaatagct tacgacaatg caccgtactc gaagacgccg 2880
gtgaagtgga atctccaaa gttatggggc ctgtccgtca tactgggtat tgttctagcc 2940
gtggggacat ggattgcact gaccactatg atgaacgcgg gcgaacatgc cgggatcgta 3000
caaaattacg ggaaacgcga cgaagtctc ttccttgaga tatctctcac ggagaattgg 3060
ttaatattha tcactagagc caatggcccg ttttgggtctt ctctgccgtc atggcagttg 3120
gcggcggcca tttttgttgt tgatctcggt gcaagttctt tttgctactt cggctgggtc 3180
gttgggtggac agacttcgat tgtcgccatt gttcgtatct gggatatttc tctcggcgta 3240
ttctgcgtta tgggaggtgt ctacttctcgt ctgcagcgtt ccagacttt tgacgacatt 3300
atgcacttca actttctcca gaaaaggac tctgtatctc agcgtgttct tgatgatctt 3360
ggtaagcttc tccaaacagc ctttctaagg gtccgtgcta aatatgattc tagtcgtggc 3420
tttgcaacga cgatcagaac agcatgagca gagttcgaga acagccgaga gggaggacat 3480
aggattatgg aagatggaca aactccgtaa agaacgcgca cagtgttgat gatagatgag 3540
tactatgtat ggcgtattct attgttatgc atctcgtaca tcgagacctc gaaacttgat 3600
gataggaaca ctggcatctg taagtcaggg tactaaaata tagaatatcc gcactatgga 3660
actataatca ttaagcgcgc aatgttcatt tccataaatt gctcttcgc aacctgctt 3720

gctcaataaa tgcttgacct cagcgacatg tactcgagca tgtactacac tgctcgtcac 3780
acgtcaacaa gcagttatag gtattggttt gattatgact aaccgccaga cactccagcg 3840
ttcttgcggt ctcgtagccc gatcctatat tacatct 3877

<210> 1943
<211> 2380
<212> DNA
<213> *Aspergillus nidulans*

<400> 1943

acgccccgtg gcgtacatgg cacattccct ttttcggctg cgtgcgcgat tccgatctgt 60
gcaaagtatt cattttcacc cagccgaata cgtggtgcat gctactacta cagccccgtct 120
atagatggaa tgttctaact tccgagggaa ttaaaactgac agttttcctg ttggttgggc 180
gtcttcagat gaacatcgaa tttctgacag cgcacctgct ccgtcctttg tcgtctatca 240
agctagcggg agctgatcag cataatcgac tcttcacctt tcaaggtttg acttctgacc 300
ggcctatgag acggggcgaa cagatgtgag tctgtgacct atcacactgt caggttcgac 360
tgtcaacggt tttgacgtgt gacgaaatag cctactacta tggagcagat gctggggcta 420
agcacggaat atctgcccag cctccagaat gcgcccggcg cccgttttgc tcgatcgcgc 480
ctgtcagccc aaaccaaccc ctcgattacc ataacttcca ttgttctactg aactgtccac 540
tgaatgctcg tgggcgtcga gagatcgtgt tagatgttta gtaagaagaa aaagtgacgg 600
acaaaatcga tgctggaata taaagttttg gcacggctct gcgtatttcc cgcgccaat 660
ctcctcgga tggggtgtgc ctttctgcaa aagtttggtt gacggcatgt cgctcggcgc 720
cactttcctg cattctatgg agtacggagc aggtcagac acttctgact agtgcctact 780
tctactagga tatggtccca gatcgtcgaa tcgtccagat gtcgacgctg cagcctccca 840
gtcagcaatg gatattaact cctgtgccga tcgtctgcct ccaacaagca acggcagtat 900
tagtctgcgc atcgaaagt gacttatgag atgcagactg cccgcgaacc gactaccaag 960
agcgcacgaa gtttccatct ccaccatata ttacacgta tacagtatgc cataatggat 1020
ttccatgtgg ggggaggtca tggcactggg taacacgctt gtcagatctc gcggcgacaa 1080
cggcgcaagc tgtacgacct ggttggggct aagtccaaca gcacgcgttc atcacaactc 1140
gcaattctca caaatctgat atattcgagg attgtcaagc cttcaaagat gctcttccca 1200

ttccggccgag gtccagaata gcgtcagtga tagccttgga actcggacga ctaacctaag 1260
 atggccgacc atacatgccca ttatattaac agtaacaccg ggcgatctag ctctataact 1320
 ttctagtccc tggactctgg cagctttcaa cccctttcat attgaacaaa gaataggcac 1380
 cggggaaata ggtttcgttc tacgacagca ctaatcgcta cgggaactgc gatagcatgt 1440
 gatcgctgaa tcagagccac gactctactc cttttttcac acggagattc ccattcttcc 1500
 tacgccatag taaggagctg gcttcttgaa ccatccagag ccctcggagc atagtaatct 1560
 tgaatcagga cattggcatt ccgacggcat ggccgagct gagtcggagc ttcttctgtc 1620
 tcccggacgc aaaaagtgc cagacagcat ggacctaggc aggcttcaca gtagtctcga 1680
 tctaacggtc tctccaaacg tgactggggc aattagactt ttgtgacttg tgagaaacgt 1740
 tttccgtcaa gatcttaccg aatcaaacgt tacacagata ctgattaggt tgagttccgg 1800
 cgccagaccc agtccatcac atcctacgta tctcgtagcc gccgggggtc cccgagtgtg 1860
 atcgatgcag cacttctcat gttggacgtg cgggtagtgg gtgaaaccta ggatagagac 1920
 tcaggcaatc gatcgtttgc aagctaggag actcggcagc cgcaccgtcc agacttaggt 1980
 gcacttaacc ttcgatgact gagcaaagct ttaccccact gcggcgatgc tgcccgtgtg 2040
 ccaaggaccc gtgccataag ccatctgaca ggtccagcta aacacctatg aattgacatg 2100
 gtttgatgtg atgaactcgg ggtgcggttg cagcagtcctc aacagggccg cgataatatc 2160
 tgattttctga ctctgctagc acattaccgc ccagggtccc tccaaagaat agcacttctc 2220
 tccccataag gtgtgatgac ttttgagtat attttccctc aacaacatac gcgtattcaa 2280
 ttgagccgtc cgcctagtgc cccgcccggg tttggtctaa tgggtgagaga caaagaaaag 2340
 aagtttgacc ttttcagccc attccttcca gagccccgcg 2380

<210> 1944
 <211> 4000
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1944

atcagcccgcc ggggtttgta ggtcgcgcga ggcggtcatc agcctaggac cgggccgtcc 60
 ctgggatgca tacggtttcc ttggagcagc cgataataaa tcacgggttg tcgagaccgg 120
 agacttcgcg agtatcctgg ctgttgagga ccgcgcgacc cggggggccc gcccatgaga 180

gacagatgat tccaggtacg gcgccgattc atcctctagc ccaatctctt caaaattccc 240
aatatctgta aacaccccat ccggactgga catgcgcgag gacgatcgat aagaggagga 300
cttggaacgac ttggaccggg atagttcagg aggcgagttc ggtgcagtca gaacggccgc 360
catttcgctg gtcaaccacg gtaggcgtgc tgtagttaa tagttgaata gaatatggtg 420
tagtaaaata agcgatcaat cgcgtcggtg tagacaagaa gagtgcggac cggcagcaat 480
agaaaagaag gactagcggg gactcgatgg cccaaccac gctgtactaa tattccacaa 540
ggaggcacag ggccattaat ttaccagtca ataaccagga ctgatatcta gggcaggcca 600
gacagcggtg cacagtgcgt tatgacgcca gtggaacgaa aagtgaacag gggttcggtc 660
aacttaagag gtgagactcg agacggaaag ggaggagcga gtgggatggg ataggtagaa 720
gatgtgaagt agaaaagaag aaagaaagat cgacgcaagc gaaggaaggg cagttggagg 780
agttatcgac ggaagagcga gtgaaaaaag caaggaaaga cgaaaagagt gaagatatga 840
agctgggacg attccatcac cgactcgtt ggaggcgcga attccaggtt ctctgccgaa 900
cgcagtcaaa agggctctagt ccggccaccg atatgagcgc ctgaggcaga gattattgca 960
aatcgcccaa tggcgcttga gaaacgttg tattcaggct tatatccggt ccagactcct 1020
catttcattc gctgcaagcg gcgatcaaca tcaaaccggt ttagggacaa ggcactgcgg 1080
agtcgcgacg tcttcgctg tcgagatgaa ggagcgagcg gctgttccaa ggcacgccac 1140
caatgatcca caggtgtggc tttgaggttt gtcgtgaaat aaaagaccac caccgcaaca 1200
acagtaatga ggtctaaaat gtttacaagg tctaaaaggc ctaaagtgga agaattgtagc 1260
agcaaaattg tttgtttgtt gatattgata aagagattgc caccctctgt ctgctcgacc 1320
actgtggttg tcgtccgctt aaacctgatc cgtgggaatg tctgctcaga ccacacactg 1380
accatggata ggtataatcc catatgatta tggttattgg aaggaccaca actggtgctc 1440
ttgggggaag accgagtcga tcccgccctg ctgtatggta aatgctacgc tgtagatacc 1500
gacccttggt ctcccttcat tgagttggcc attccgcgg ccctgcaatg tctgcaatgc 1560
ctgcatagtc ggacattttt caattttaat ttctctcaag ctgtaaggag caaggtcaaa 1620
accgccactc tctatacgtc cgattccctt tctgcaccgc ttgtgccagc aaaacactgt 1680
tgccaacgct ctgcctgct tccgccagcg tcccgccag ccaacgcagc acgcccgc 1740
actgtgtctg tttccgcccc aacacaaatt gaaacgccgc cccccctaaa tactgcagct 1800

gaggatgcgt gaccctgcac agaccatgcc ggccacggat cagtcggtat cccaactgcg 1860
ttgcatcgtg gattgtgcgg accacaacct cgggtcgagg tcgcgcccgg cccggcagtg 1920
accgagtgtg tcggtacatc ttcacgcggg ccgtgacaaa ggacttataa acgttcagta 1980
gtaccgcggg cagtgcgttg tgcgtcgagt ctaggtacat tgggtgcatg gattgcttta 2040
tcgatgcaag aactttccgg tagaaggacc gtccgggggt tcgcgtggag tcaatcgaca 2100
gggaatcgct gagagcgaca ctgcgagaat ccgccccctc gagcattcga tccctggctc 2160
tgaagatttc cagagttcgc gtgtcgatga gactgccgca ataaggaag agtggcgtgt 2220
caacaagtcg cgggatttgc gcccgtcta caaccgccg gaaattcact aggcctcttcg 2280
ctgggttgac agaaatgcca taatctggct gtccctcgac catgactcga aggaaatcca 2340
ttgcgaggcc agaatccaaa gttaccagca ggaagtcgtc taacaaacga aggagcaggg 2400
cgctgtccgt ttgtaagaaa ccaagcacgt cccgtccat ttcagcgtac agcaaactgc 2460
acaaaagact agacagcaca gaaccctgtg ggataccttt gcgctgtcgg aaatacttct 2520
tgccatcttt gacgagattg ttccggatgt gtcgttgag aatgtcaagc aggccttcac 2580
cattgtactc cttctgcggg attgtgtcga ccaagacggg gttccttcgt ccactacgc 2640
ttccattggc gatagcatcc gccaaattct ctggcctgcc aactgggcca actctttgga 2700
ggactttga ccatgttctg cgctgtcggg gttttcgcag cggccacatg ttgtcaaatt 2760
cgcttgcaag tctcatttcc acatatttca tccaatggta gttttcctct gagaccagct 2820
tctcgaccag acgcactatc ttcgcctgcg gtatagtatc aaaacaggac tggatatcca 2880
gcttcacgaa atagagcgt tttcgtgat ccagcccct gtcacacaga gactctttga 2940
atttcttcag cctggaatgc atatctcaa cagagaacat gcttgaacca agcaggctgt 3000
ttcgtcgccc tctctcataa ttcagcatgc ttagacagg cgcgatggcc gaattcacgc 3060
tctgtgctgg gtgataccgg tttttccag cgtatatact tctaaccaag gtccgccgtc 3120
tcaggttaag aattggacga attcccgctg tcttcggcag cagccgtagg gagccgtatc 3180
ctatcgattt ttaccagac agtagtttct ccgccgtttc tggtgccaac tctcaaata 3240
tggaagccct aagatgcgcc aagggtgcg cagtaaggcg gcgccaacg tcatgtcgaa 3300
aatagaataa gcgataccgg tggacttgtg attcggtcac atagaaactt ccgcgtataa 3360
gtggaagaag tatggagtca aacaggtagt aaaaaattc atggaataac tctctgcgt 3420

tttgcaagtc agacgctgag atattgttct ctgacggagc ctgacgtaag ctctcaggct 3480
 ccagccaagg tatcaggggtg atctgacatt ttagactaat attcgtacca agcaagagac 3540
 ggtgcgctaa cctttatccc ttcgcaaacc tcatgtagac tcagactttc aaatctacgc 3600
 atgcggtata atctatccac atggccgagg atcatcttct ggtgggtgat gccctgttca 3660
 ccaaccccgga agaactctaa aggtatcaaa tttcgaatga cggctcggca aaaagctgaa 3720
 acagacgctg cgggagtggc gtgatccgtc agattttcct tgggcttagt tgcacctgat 3780
 cccttgctga agcctttggc atatgacgtt gggcgagct cgcgttgcat gtcctgatgt 3840
 gcgagagatg gctgggttac caggcctctt gcgctcggag tagagggccc tctgtggttt 3900
 taagctttaa ctgtgtccca agttcccggt gcccgaaac aaatagaatt gcccttcttt 3960
 cctacctctc aagccgggca ccatccccgt ccggggccaat 4000

<210> 1945
 <211> 4406
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1945
 atcggtcccat cgtcggacga cagtgtctatc gtcgtttttc ccagacctcg ttccttcagc 60
 catcctccat tctttctgca gtacagtttc cgataatcag ataccgataa ataggtatct 120
 tgataagcgg ctcttattgc ctgtcgctcg acgccgaaac gcgacaatcc gatcgcacac 180
 ttccccacgg ggtcttgccg accaccgatc gcacggattc ctaagagctc atggcactct 240
 cctttcagac agaaattgtc gcatacacca tccaccccaa tatcttcgtc ctcgatcgat 300
 gagcgtgtct gataagagcc gaacatccgc aagtcgcctc aagggtatcg gctaaagctg 360
 gctacatact acaacaatac aagaacatag gagtacaaac acaggagacc ctgaaagcag 420
 tccaactcgg ctgaggatgg cctttgcggt gacgcccgtg gtcctctca gtcagggcac 480
 gcgacccgat acagaagtgg gatctgaaag cccggatgtc cctgaggcca acggtcctcc 540
 gcgcaaaagg aagaggactc gcaaagtcca agtgaccgt aaattcgact gtcgtacga 600
 aggggtgtggc aagagctatt cgcgcgcgga acatctatac cgccatcaat taaaccgtat 660
 gctcatgcct ttctcccaac ccactagcat ggatactgat ccttggtgtc cctagacgcc 720
 cccaagcaaa tctaccggtg cgattttccc gagtgtacc gttccttcgt ccgacaagac 780

ctctgcggtcc gtcaccgcga acgtcacacc acccaaggct cgcagctgca gaaacgtgac 840
cacttttgac aggttgcttc tacgagtacc ggcgggatcg cgaaatctca gatcggtccat 900
actgcgggtcc agttaccgca aaatgcacct cccgtcctat ctccgccaga ctctaaacga 960
ggctcgacag gtccggatca acctatcgct gcgtcgagca ttcccgtttc ttccgcgaca 1020
tctagggggt tcaaccgggt cagctaccag cccgccgctc aacagcatgc tccgactgca 1080
gaggttcctt actcccaacc atgcgattta ccgaacactc ctatcacgac caccgacattc 1140
aattccccgc cactgcagcg tccgttgcaa gttgggttcca ataccgctca tgccctgaat 1200
ggctcgcta ccaacgagct gggctctgca cgatcggcag cgttggtatga gccgctcgtc 1260
tccaacaggt ctcaagatct cggggccagt tacgcggtat cagctgatct gaccgggtct 1320
ttggttaagcc cgtccgcata cactgatcaa gcggggttac aaatccctgt cgatggatac 1380
tccgacatca acatggcgcc agtaacctca tcggcgctctg ctccgctcga tcaaacaaat 1440
ggcctaacc ttgactctat ggcggggaatg gcagtaggag atatgcaatt tgacgggctc 1500
aattcttggt tctatccggt ctttggcggt gaaagcaata gatctccttt ccatatgggc 1560
gatgacttca cggcgtgggt gttcaatgaa ccggtgcctg ggtcatcgat ggctccgccg 1620
gcaaatatgg tgcccggtt tatggacgcy cagatgcaa accagttttt gatgagtgc 1680
ccatcatagc gaaactttct gaacagtgtc atcccagctc atccgatgag tgtgaccagc 1740
atccttgatc ccgggtcccc gcggggccatc atgtctgagg agaagcgtca ggagctgctt 1800
gatctcatgt ccaccgggt caatgaggct gcatattcgg cagtggcaa gcgcaaggat 1860
gccttgatgg acggtgatat ggacgaagac cgccacgtcc ttagtttgct gaagatgcaa 1920
acctacattg ggtcttactg gtatcacttc catgccaggt tgccaatcct gcatcgggccg 1980
acctttgtag ctgataaagc gccgaatctg ctgctgctcg ccgtcatagc gattggggca 2040
gcaacgctgg acagtattca cggacaggaa gtcaccgagg cagcatcgga gctagccgac 2100
tttatcatgt ggcatttgcy gtgggagatt tttatggaag gagatttccg gccgccagcc 2160
aaactctggg tctttcaagc gctgctgctc ttggagggtc atgagaagat gtactctact 2220
cgtgcactcc acgagcgagc gcacatccac caccgaccca cgttaacgtt gatgcggcgc 2280
ggtacgtcct tgattggccg ccattcgctc gactctcctg caagcctgag agatgaccgg 2340
cagcacgtc gaccacaggg tcaacgatga ctccggactt tgccgcagac gactcatggg 2400

cgcatgggat caaaactgag gccactaggc gagttgcctt tgcggcattt gtcttagatt 2460
 ccacccacgc tacgatgttt ggacactctg cgaagatggg cgcgcatgaa cttcgtctac 2520
 cactgcggtg cgacgaggcc ttgtggtctg ctactagtgc ttcagaagtg gctcgggtgc 2580
 aggcgagtct acatgccaac ggagtcaggc cggatgatgtt tctagacggg ctcaaaagga 2640
 cactcaacgg acagcgggtg cgaacaaacg catttggaag aacaattctt atggctgggc 2700
 ttcttagcgt gagttggcat atgaatcagc gcgacctgca agtcagctct cttggggctg 2760
 cacatgccct aggaggctga gacaaatgga ggtctgctct actgcggggc ttcgacaact 2820
 ggcgacgcga ttttgacgag gcactacaac caggcatggc ctctaccct aacggatatc 2880
 gcggtcggta cgcgctcgac gaagacaacg tgtttgagtc ccgtgacgtg ctgcacgggc 2940
 tggcccatat ggcttcgcac gttgatatcg tagattgcca gatcttcgcc ggagctcgtc 3000
 gactgatggg acgtgctatc accccgcggg attacaacgc cgcacgcgag aagatggctg 3060
 agcgtcgggc taccaaagca tccgcccgcg acgccacctt ttatgctctc aagttcctcg 3120
 ctgaatgtct tttggaccac caaggggccc attatgaagg agagttgtat tgcggtcggg 3180
 aagattacct tctgaatcga ccgtgggtga tttatgtggc tgccctcgta gtctgggtgct 3240
 atggatacgc cttggaaggc ccgattgcgg gcgccccggc gctgtcaacg gtcgcgagc 3300
 agaggcaaga tatgcaggca ttcttgcgcc gtgtgggcgg ttgtcgggag ccgagcgacc 3360
 ttgagaccat gaaaggacga aatcagtgcc ttggactatt gattattttg cgggatgggt 3420
 tcaccaacgc ccgatgggag ctattggctg aagctgcaa cctgctgggc agttgcattg 3480
 ataaattgag ggaagtctct caataagata aaaactgata ctgtacacga tataccctga 3540
 gttcgcgggt gcacttgtat atggctttgt tatgaatatg ggtatgaaca tggatatgga 3600
 caaggagtac ggagaatatg gggatcatt gtttacctt ctactttacc tatttagggc 3660
 ccaccatcaa cggtttcaat agacataaaa caattgcata gatttatcgt catccatcta 3720
 ctacaagtag ctagacacct ttgcggctta attcttgctt gaaagctacg gctagcaaag 3780
 cggagctcct ttggttacca caacaacgag ccagcccg cgcctaact ctctaacgtc 3840
 aaaaccatcc ctctctgca ttccaccaac agcctcagat tctcagacaa tttgtttttc 3900
 caaggttgag aaccaaactc agctacgcag tgaactttcg ttaccagaga cattocatag 3960
 ctttccaaaa cacacggaat attcaccatg gtacgttgcc tcatccgac actgggtttct 4020

cttttatccc ctgcatggaa tgaagtgagg gacgatctgt attagctagg cagagcacc 4080
 tcgttgga accctttcta gccctgcacc gcgcctcttg ttttggtcgt gttgttattg 4140
 agctgttcag ctagctagcc tcaaattcag ccgtgggttg cgcacggcgg ttccgaccat 4200
 cctatcccat ccctctcacc caaacaccct gactttcaat tcaaccctg catcaactcc 4260
 aatatccatc acatcttacc ccgtttatcc ttctcattga aacaacttgt cttgtctgca 4320
 aaaaaaatgt ccaccgcgtc accagatctt caccacgagc aggctcgcac aaactacaag 4380
 gaagccttct cgctcttcga caagcg 4406

<210> 1946
 <211> 5512
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1946
 tccggagaac gctgcttcta ccaccaagcc tactgttgca gtttcctgag aaccactga 60
 gaaggtcgag ccagctgaga agtccaaagc gcctgaaacc ggctcagagt caaagcccc 120
 accatccgaa gcgaaagcgc cagttgagga gaaaaaaagc gaagagtggc ggtccaaaaa 180
 tactgtccaa cagttgttaa aggatgcgga agccaccggc gttcctctca aagaactctt 240
 agccgagcgc acttgccctg tacaagtgtt gctttcgcag cttcatatat cgggcgctct 300
 ggatctcaac aatcatgctt tgttcaacct gtccaacctt aatcagcgct ttgacatgaa 360
 atgcacttcg gacgattatg aagacctcaa gcagccgatt gagctgaccg agcagcaccg 420
 taaagcacta ctgcgcggag accagtgcgg ctgggctcgg attctccctc gctgaaacat 480
 agatgcctta tcagcccccg cggttgcgtc ctccaccatt tatctcccga agaggaagac 540
 cgctacctcg ccctagagaa gagcatctcc tggaccatcg actccttcca agaatacccc 600
 gccatccccg tcaccgaacc ggatgccaca aaccgcggcg gcgtcgtgga cgcccttttc 660
 gccacgctg agaacttcaa cctctgctgg gttgacgaaa ctccactgg aggcatttcc 720
 gcacaatctc ccatctcgt tcaactcacc actgaaggag gcaccctaac gtcaatccct 780
 cccaacgttc tctccgccat ggaagcagac agcacacgca accacaactg ggcaatttcc 840
 aacgcgcgg agctcatgaa tgcaacagcg acgtcggctc gctcgtttgc tgccgccact 900
 gcaaaacaca tgcttggtgc tgctggcgtg gttattggga atattcctga ccttgacgat 960

gttgtcggta tgacagatga ggagctgcgt tcgttcgcgg ttaagagcca gaaagaactt 1020
 gaggcgtcga ggaaggagct cgatgcaatt gacaagaagc tcggagcggt ggtgaaaagg 1080
 aacaggaagc tcgcgcagca ggcttttagct acttagcgca cgtgctttgt ttgcatggta 1140
 tcacgaacct tacatttgta catttatgtc ttcagcgtgc acttggttgt attacttgta 1200
 catttgtttt cagttttaca gttttctctg tctttttaa catcttagac atgatgccta 1260
 ttacgggtata cttacctcta gactacctgg gacatatgat cgaataaaca tcatatcaca 1320
 accggtatat tatgcatatc acaatgtcta accttggtt tgccgacgta aaatgtggaa 1380
 aacagtcctg gtaagtctat acgcaaacta agcacgacga cactgctacg agtccagtcc 1440
 tttgactcct ccttcaaacg agcgaaggtc atactcttcc ggatactcct ccagaattct 1500
 cctcaactcc ttcactgtct cctcgcctc ctccgtaacc tcatcatata catcctcaaa 1560
 cgcaaactga atagccggct tcttcgcct ctccgcctcc ccaaactctc tcagtacttc 1620
 ctttcgaata ctctccctag cctgccgtc catatcctca ttccaaatcc cctcattttc 1680
 aagccacttc cggagcctga tgattggatt atctcttctc ttccaatcct caacttctac 1740
 gcgcgcacgg tacgcaaagc tatcgtcgga cgtgctatgg tgcgagacac ggtaagacat 1800
 cgcctcaata agtaccgggt ttcctccttg agaaagggcc agagttcgag cagccttcat 1860
 agcctcgtaa acagcgaaga tatcatttcc gtcgacgcgg atcgtgtcga tcccatagcc 1920
 caccgcggc ctggcaattc cgtctccccg atactgctct aatgtggggc tagaaatggc 1980
 gtacccgtaa tttcgacaga tgaagaccac tgggcaggat cttgtagcgg cgatattgag 2040
 accagcgtgg aagtcgcctt cactggcggc gccttcacca aaatagcatg cgacaatgcg 2100
 tgggtggcgt tcgggattct gtagagcttg gagtttcagt gcgtaggcag cgcctgaggc 2160
 ctgtggtatc tgggtcgcta ggggtggagga gattgtatgc tgggtcaatt tgtcagtgtg 2220
 aacttcatca aagggaggag ggatagaagt acggttttcg gatctcgca cccgtagtga 2280
 acaggcatat tcttctctcg accgttatca ttcgcattgg cgaagagctg gctcatgaag 2340
 ttcttttagc caaagcctcg ctgctgaaaa acgccgggtt cgcgatactg tgcaaagacg 2400
 acatcgctcg gtgtagagc tgctgaggag ccaacgctga tgccttcttc accggctgag 2460
 accttctgag aatgtatctc atcagcaaaa actgcccttc taaggctagg aagaggtctc 2520
 gtacatata aaagcttaat ctcccctgcc gttgtgcctc gaacatgatc acgtccataa 2580

tgctcactgt atategcata cccattaatg ctgaaaatag acttatagga atgtacaccc 2640
 aaaaccacc cgtaacata ttcctatacc acgccaacgc ctcttcattc gaaacactga 2700
 gctcgctacg acttttatcg atcagcacac cgtcgggaatc cataacgcgg tacgttggaa 2760
 tcccagggtt atccattggg ttgatgaagg ccatctccgt tgtgaatttg ctgttgactg 2820
 cgccgggaaa tcggactcta cacattgcat gatagttgat tagctttctc gacctactct 2880
 atattgtaga aggtggggac ttaccgatct gaccccgac gctgggagag ggatgtgctc 2940
 catcgcttgt ggaggagag tgggtatgag gaccgaaagg gatgttgaag cggagatttg 3000
 agaagggaac agcgcacggc gtgcgctgac cgtactcggc ccggtagata tattagagga 3060
 gtcattggctg tgttctttaa atgatttgag tctcaaaag aaaaggagtg ggaatgggag 3120
 gtttttttgt acgattgaat tcccagact gaggccttg gagagtgcgg agaagcgggt 3180
 ggcgtcggag ggttaaactg cacggccgc cagtagccga agctccctta tcgactcggg 3240
 ccatttatat ctgggcatta ctgtatttg tttattata atagcctcgt cgggttgatc 3300
 tttcttaggg ttgaggacct aaaagtcaac tagctggttg ggccttgat agaaacagtt 3360
 actacgcgct ctctcagatg gactatcaaa cccaattata cacatatgac ttcgaaatga 3420
 catataaaga agccggcgac aggtagacat tcatggtgaa catgttccgt cgcttctctt 3480
 ctgcatatgc cgccggtcat catcgacaag attaggaggc aggtttgggt tatcgccacc 3540
 tggcttgggc acaggaaaat cgtccagaat gccggactct aacatctcgt acacactggg 3600
 gtgaattgtc gcaccacatg gaatatccct cgaagctcca aaatttgggt ggagtcgctg 3660
 cggaaccac ttacccttct ctagctcgag acgagttgcc aaggggagga cctctgttgt 3720
 gagagacgtc attacggaag aacaggtgaa ctggaaaatt gggagacgaa cctaggatcc 3780
 accatagcat aacagacaca tgcgttccgc catgtccaaa gcgcagctta tcgtgctgct 3840
 tgtttgtctt ctgtgctatt tgatacgtg cagtgcggg ctctcatcc ctacataaag 3900
 agtgagtcgc aaccggttct atgttttcta cattttccga catgaattcc agcttgctgt 3960
 ccgagccagg caggtttaac acttcctgta tcatccagt aagagcgata tctgatagga 4020
 ggtgcttctg tcccttgctt agaggccacc cgccggcgc atcgccatgg tttccagcaa 4080
 accaaacttc tttcaaact atcgagtctt tgtcctttg gtcaatatga aataacgcag 4140
 gtttgaactt tagccggcgc tcgtgtatcg aaacagcgtg acgaatatgc cgtgccgaag 4200

ggctggcgat gtaccggtat gacttgcgga agaacggtat ctggaactga ccaacgctgt 4260
 ttacgcagtc aaaaagaccg aggaaatgca cgccgacgtc tggacggcaa aatgtcgtct 4320
 tgaacttatg catataccgc gctaactcgc ggtcttcttc agtctgtggc acgttcccc 4380
 gagagctctg atagcgactg aacgtgtccc aggcgatgg gaccatttct tcattaccgc 4440
 gtgagaggag gccaatgtta tggatcatct cggctaggaa tcgggctgtg tatgcgccgc 4500
 gcgagaaacc gaagatatag atatggtcgc cagtggagta atagcgcatg atgaacctgt 4560
 agccccgat aaggtggctg gcaaacgata cgctatttcc ttgatctagc agggcgctga 4620
 cgcgcgtctt gaatctcgtc caccagctaa acccgctggt ctggcgcgag gaacctctaa 4680
 cataggtcaa ggtcccaatc ccggtgtat gcgcactagt tagtttttcc gttttgaagt 4740
 ggtattggta gtcagcttac gctgataata ggcatattgg ccgggtttat gccgctcaag 4800
 cgactcatag attttgacga tatttgtgtc ctctcgggtt cccatgtact gattccccgt 4860
 gccatcgaag caaagaacaa gccgacgagg ctgcggtacc gaatcatggg ccgactcggg 4920
 accgccgaac gggccattat ggggcggagg aggcataatt gactcgcttg acgctggtgc 4980
 caaagtatcc ctccaggttc gaccgagtc aaagtgaatt tataacttca cggactgagg 5040
 tgagatagca aggtgtcata gcagctgggc tgggctgagc cgaacaccat gtaagatatt 5100
 gcgtcttgtc cctgcgggct ctatccacca cgaagcctga ttcgaatggc gatcgctggc 5160
 tgcccagacc agccgttcct tcgtggcatg gtggctggag gattagtggg cgtgaacagt 5220
 tcatcaagcg gtcgagtaaa tggtgccaag gtgatcatgt atgctaattg caactctgcc 5280
 catcctttgg acctttcacg cgggtttaat tcgctggaag attcagaatt gcagtttgag 5340
 gcctttgccg tgggtgcagga gtgcagaaag ttcgcagatc ttggctcaag gtcgagtct 5400
 cgcgaacatc agcgacttga taggcgagaa ttgtgcccac ctgaccgaga gtacaaagat 5460
 cagcattcag atcggtcagt aagctgcaaa acaccctttg acgccctacc tc 5512

<210> 1947
 <211> 3818
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1947

attgaatatt taaataaaga tggatatgaga aaattataat taaaaaaata tadcataata 60

tgagatatat taatatatat atagataagt gatgaatagt agtagaattg aaatagaaaa 120
 tacaaaaaat aaaagtataa aataattaga aaaatataac agaatataga taatgaaata 180
 aaattagatt ataacatcca ataataaag ataacacaaa aatagtaaca agtaggtaca 240
 taataataac gagaaaagag tggacttat aaaaaataaa tcaaacagcc aatttatggt 300
 aataacaaag cacaataaat taatatcccc cacagaatat acccactatt tttaaaatag 360
 aaaaatttat aaaatgtctt aactatgctg ttatacatat tatatgttaa tattaaatga 420
 aagtaggata caagactcgt ctatttaaca agttagtaac agtgaactag gctcccaaag 480
 aatcgtgcaa ggaatatgca aagtcgtgtc tctttagcgc atgctgaact ggtaaaactc 540
 cctatccata cgtcacgac tgtatactcc agccggggta tgtacagtag cgcacgct 600
 aatccaggtt gggcccgtct ggaggagcat cccaacctct ccgtcgataa taataggtaa 660
 gactcgggtt tagtgacctc atccaaagac tctagaaggc gtcttgctgt tgatagaagc 720
 cgttgatttg gcagcgagga tggaaatgtc tcagtcgact tggctacgct gccaggtgc 780
 ccaggcgcag gtgccaaccc cgcctttcct ctctggcctc aacagtaatt tccggtttcc 840
 ttcattcacc cgctccacca tccagtcttc aaggacaggg atcaactcca tctctcagag 900
 ttctgctagt ctcatctcag ccaaagttct gccacccgac gtctcgaaat gtgtctttgt 960
 tttaatctat ttgacagct ccgttcagcc aggggtgcat tgacgaatgc gatgtcgagc 1020
 aggtggcaca acattatcag cctaattgtga cgatacgtct tcaggccttc accgtctgct 1080
 ccaactgac gcccatgac gtcgtgagca tatctatcgt atgtacatgt acgggaggcg 1140
 gctgctgttg tgcttcggac cagccgatgc ttcgattcgg ccacgatatt taaatccaag 1200
 tggctgggag aaccatggtg ccgtcttacc gcagtcaggc catctcgcgc cgtccccgc 1260
 caatgccacc gttgtccagg gtccttgaat gtcctctat ccacataacg agcccgaacc 1320
 ggacaatggc tggaacttga tctatcagac ccagcccca atgcaactgt ggactctacg 1380
 tccgcactag ggctttgatt gtccagttat tgttctttc agggctcact cgatgttgaa 1440
 gttgcgtgcc tagtcacgac ggggaagacc tagactacca acaaaggctg ccattatgtt 1500
 gagagcgaac ttaccgttaa tgatgacaag gcattgacgg catgattgca gttaaccgaa 1560
 atgacgcac gccattgtct tccctacca tgccggggca gggtaaaagg ataagaagga 1620
 catggcttgc catcgcttct aggatgtttt ctcttcgagc gagcttctct ccacaagagc 1680

ctctgcaact cacggtcggt tctccggtgt ttcattgctg cactagtagt gcttgttctt 1740
 gatattgctc tttctttatc ttctcaaac tataatatcc gcacgctctt gacagtctct 1800
 cgttcatacc tgttccgcaa tgagggtcaa ccccttgctc ctggccacca ccctgggtgt 1860
 catgagcggg gtctctgctg cacctgtccc gccctagttc agcgtgggtg agagttatct 1920
 gggtcctttg gcggtgacca tgactgggac tggggccacg gtggagggtg tcacggtggt 1980
 cacggcggtc acggcgggtc tggcgggtcat gacgatgatg acgatgatga tcacgactgg 2040
 gagcctccca caaccactcc ctgtgagaca gagacggaaa ctctccgcc agagaccact 2100
 ccatgcgaga cggaactga gacgcctcct ccagagacca ctccatgtga gactgaaacg 2160
 gagactcctt caacggagtc tctccgccca gagaccactc catgcgagac agagacacct 2220
 cctccttcaa ctgagactcc tctccagag accactccat gcgagacaga gacgcctcct 2280
 ccttcaactg agactcctcc tccagagacc actccatgtg agactgaaac ggagactcct 2340
 ccttcgaccg aaactcctcc acctgagact actccatgcg agacagagac gcctcctcct 2400
 tcaactgaga ctctccccc agagacaact ccatgcgaga cagagacgcc tctccttccc 2460
 acagaaacac cccctccaga gaccactcca tgtgagacgg aaacagagac gcctccacca 2520
 gagaccgaaa ctctccacc tgagactacc ccatgtgaga cggaacgga gacgcctccc 2580
 ccagagaccg aaactcctcc ggaggaaact cgggccccgg ctcccccgag taccagctcc 2640
 tggaccacat ctacatctgt cagattcct cctgatgaga caaccacttc gattccacc 2700
 ggaacatcac ctgagcagcc tacttcaact ggcacaacc cagctgctcc ggtctttact 2760
 ggtgccgcta gtgtggaccg ttttggctcc cctctcgctg gtgtgatggc cattgctgca 2820
 attgttcttg cttctctgat aattgataat aattggggga aataatgaca ttaggggtta 2880
 gttacgttca tggtttatca ttaatttatg taatgtgcta tgttttagtag ctagtctagt 2940
 atagagcctt cccaggctcg tttgaactta attactttct tttagatagc ctataatcaa 3000
 gattccaaca gctgagtac aaaagtagtc attcgtggtc tctgacacag ccacagtatt 3060
 atatagttca tcggctgtgg ctgaaactgt ccacttatct tatctatccc gtcaaaggac 3120
 cgacctcag tactgagtgg cgcggtgagc caactacgcc acaacgattt tccgcggcag 3180
 ttccaacctt ccttcggttt catTTTTgtg aactatctca aacaatttga gggttgtgtg 3240
 tcaccctcgg agctactaca cagacactac tatacacgga ctcatcgatc tgattctcct 3300

ttccgcctgt gtcactccta acatcacagc aaaatggatg accttcaatc actcgaacac 3360
 ctctccctca tatcgcgcat aacaaacgag cttcaaaatc acctgggagt aagcgataaa 3420
 gttctcgccg agtacatcat agagcaacat ttaaaatggt ttctgtttgc cgaattcaag 3480
 agcgcgctag aggcgatggg aggtgaccta ttcccgatga gtttaatgga aagcgtggat 3540
 cgattagtgc ttacgatgca tccgagatat aaaaacaaaa ataagaaaga caggggtgat 3600
 gaacacgttg aaaatggggc aagcgatgat atggatgcgt taaatgcctt ggagaagaag 3660
 gcgcgtgtct tcaagggctt ggcggttccg gaccaggagc cgggatgggc ggaggaggag 3720
 tatatggagg ttgggaataa gaacggattg ggagttgatg agcacgatgc gaaggatagt 3780
 gcgatggatg atacattcgc gatgctggag gggttggc 3818

<210> 1948
 <211> 1363
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1948

ctttgctggt ttgcagaaat ggcgtgatgg gttcccatga tagagtgatt ttgtatgcc 60
 agtgcgtgat cgcaacccat ggagctggcg tagatcacct cggctgctct gttcagatcg 120
 caatttgtcc gtctcttatt ctaaactctga gcagaatcct tacttttgag gccacctaatt 180
 tagttgagac cagctgccag gtgcgctcgg ccgagttgca gtgcagtgca ccattctcgtc 240
 catcacgcca tcccggccca ctttgatgct atacaagtac aaataccggc gccgcatgcc 300
 cgcggggtac gaaagctatg agcgcgatgc attgcgtttc caagaaagggt gggggagggy 360
 tcctataagt agcaggcgtc gcgcggagtc gcgagcgatg cgggattggt gttgataacta 420
 tacaataagt atatagattc aattgagaaa ggcaccaagc aggcctatct accacacaac 480
 gcaatatgtc tacacagcag caacagccgg accgaccgcy caagtcgctc attctcaatg 540
 cttttgttga gatgtgtatt gtctccctac tttgccttcc tcggcagaat gggccaattc 600
 catgctaacy gcttacaggc agtggccacc aatcgccagc tctctgggta cccccgaag 660
 acgaatccca tcgctttaat gatatcgacc actggatcga gctcgcgag ctgcttgagt 720
 ccgcgaagtt ccacggcatc tttattgctg atgttctcgg tagctcacct gatgcaccac 780
 gccaccact tactcaccac tcgtccaatc ccctttcacc attgaaaaaa tgaataataa 840

gctaatacatt gtggcggaac acaggcggtt acgacgtcta caaagggcct cgcaatctcg 900
 aaccggccat cacatccggg gcgcagtggc ccgtgaatga gccgttggca gtcgtgccgg 960
 ccatggcggc cgcgacaaag aatatcggat ttggggtaac agtgacgacg acgtacgagc 1020
 agccgtatca tctggcgagg cggttgtcaa cgggtggacca tttgaccaag gggcggtatg 1080
 ttctcccttg aacctggatg tgggagcgtg ctgatgctga tcgtgtactg caggatcgga 1140
 tggaatgtaa gtgctatcga tctacctact tacatatcca gcaaccctgc tggggaagat 1200
 aaggcccata ctgactagat agattgtcac cggctatctt gactcagcag cacgaaacct 1260
 cggtcacgca gagcagccgc aggtatgtct tcttcgtctc aataccagaa aacaccagtt 1320
 ctgagaaatg ccagcacgat gaccgctacg ccattgcaga aga 1363

<210> 1949
 <211> 1415
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1949
 ttgatacact cctccaacca cccgtcatca ctatgtctgt ctcgtttacg cggtcctttc 60
 ctagggcctt cataagggtca tatggcacgc tccagtcgtc gccacgggc gcttcctttg 120
 cgagcagaat cccccggct ctccaggagg ctgttgacgc cactgccccg cgcaccaatt 180
 ggactcgga tgaagtccag cagatttacg agaccccggt gaatcaatta acctacgctg 240
 ctgtatgttt ccgatttgac cgctgcttat aaattattct gtaacgcgga tatttgaatg 300
 aattgttcgt tggaccgaat gttgactcat gctgaatagg ccgctgtcca ccgccgcttt 360
 catgaccggt ccgcaatcca aatgtgcacg ttgatgaaca tcaagaccgg tggatgcagt 420
 gaagattgct cctactgtgc acagtcttct cggtagacga ctggcctcaa ggccacaaa 480
 atgagccccg tcgacgacgt cctcgagaag gcgaggattg ccaaagcgaa cgggagcacg 540
 cgtttctgta tgggagcggc gtggcgtgat atgcggggtc gtaagacgag tttgaagaat 600
 gtcaagcaga tggatatctg cgttcgggaa atgggaatgg aagtctgctg cacactaggc 660
 atgattgatg ctgatcaggc taaggagctg aaagatgccg gcctgacagc ctacaaccac 720
 aacctcgata cttcgcgcga attctacccc acaatcatca caaccgacg gtacgacgaa 780
 cgactaaaga ccttgtctca tgtccgtgat gcgggcatta acgtctgctc tgggtgtatt 840

ctaggtcttg gtgaggctga ctctgaccgc atcggcctca tccacacggt ttcgtcactt 900
ccctcgcacc cggagtcttt tcccgtaac gccttggttc caatcaaggg tacccegttg 960
ggtgacagga aaatgatctc ttctgataag ctctctcgca ctgtcgcgac tgcacggatc 1020
gtccttcccg caaccatcgt ccgcctcgcc gccggccgca tttctctcac agaggagcag 1080
caggttgccct gcttcatggc tgggtgaaac gctgtcttca ctggagagaa gatgttgact 1140
actgactgca acggctggga cgaggaccgc gccatgtttg accgatgggg cttctacccc 1200
atgcgagct ttgagaaaga gactaacgct gccaccccc agcagcatgt tgactctgtt 1260
gtcagcaggt ccgagaagaa caccctgcgc ccggccgcag aagccctatg atagggctct 1320
aaaactacc cccccccca gcctgatacg cttttctccc tgtccgtgat tggtagggaa 1380
gcgctagagt cctgctagtc tcagtacaac tacat 1415

<210> 1950
<211> 1053
<212> DNA
<213> *Aspergillus nidulans*

<400> 1950

gaagggacaa ggcgctaagg gccggggcaa acaaatgca gctgtgcgga ccaaatcca 60
atacggtaac gacgaagtaa cgacgaatgc gggagtcaga tacgccattc agcagcgtca 120
ataaagttta aaaaaagggt tataagttag ggaaatgcc agaaatgaca gaaatgacaa 180
aggaaagact cgacgggaat gggaaatgaa gggattaaag tgagggagaa atataaaaca 240
ggacaaggga ctgtagggaa gagaaggatg ggagggaaag agaggggaag taataagaga 300
ataagtatag gaagtgatgc cagttggaca acgagacgag aacgctcgtt gggcggggga 360
cgaagaggaa aggaaggga ggggagagcg cgacgaggag cagaagacga gtgctggagc 420
ctgagaagct aggcagggca ccgaggcagg gctgatgggg gctgaagcat cgacattagt 480
acactaacta gtctatgggg aatgggccat ttaatcgatc tgatacacag gaaatacgca 540
acaagacatg aaacaaggaa gcagttcata gcaatcagcg ttatatggca gtctaaacag 600
tctaactga tctcaggtgc agctaaacaa tggaaccaa ataaggttca cggttactgg 660
gcgtcaatcc atgctggacg caaagcctga aagcctgaag acgcgagtc ggctccaggt 720
ttgcggatcg agatgatcac gtggtctatg atcccgtgt gtggtctccc aggtctcctt 780

ttgcttggtc ttttagtacc ccttaagtaa ggtttggttt ggtttggttt ggttttatta 840
 ttttaacgtca ctccggcgat cacggggccc acgtgatctg cggcctccca gggggcatct 900
 ggacgtgcta cctaaacaga actgcctagg aactagctag atacaggttt gaagcagcaa 960
 ctatggacaa tatatgttgg aaataagcgg aggaagcacc cgcgctgccc tggccaggtc 1020
 ttcgcaggca gatgccggtt ttgactacct ata 1053

<210> 1951
 <211> 4469
 <212> DNA
 <213> Aspergillus nidulans

<400> 1951
 gggggcggcc ctctgtttag atagaatcct ggaccctgtg aaatgttgtg ctccgcgacgc 60
 acgaactgaa acacgggggg agcttttaaa acaggattgg ggttgtggca acatacctgg 120
 tccagatggc gctggttggc gatactatac gcctctgctg cgttcagact agcacgagcg 180
 ctggcgagcg atggggcgta tgagacgcta tgggacgagg attgctggag gggcggatgc 240
 taggagagcg gcagctctc gtccgccttg agcttcttgc tcttcggggg cgtgacggtc 300
 ttgtagaagg attcgagtgt gcgtttggcc atgactgac tgtatacttg agatactgac 360
 cagtaagagt tcgagcgatc atcgctcggtc taggtgtctg agctgtgaat gttgatggat 420
 gatgtcactg caacgtctc gaaattcgtg ctagaccaag aattatctga aatatctcga 480
 gtttgattct atgcatgttt tggactcagg ggccgaagtg actgttgtca gtgtcagcta 540
 tatatagttt atataggttg aggctagaag ctggcagttg gaagcgaaac ctaacagcct 600
 gtgcacaata tgggcataca tagcaggcac atgggttatg acatttatga cctttatgat 660
 cgttgcttac catttatgca ggcatctcc atcgaagtga accacggatt ggtagccggc 720
 tctcacacca ttctattacc cgtatgaaca caacgattcc cctagtctgt acctctagtt 780
 cgtacctcta gttcgatgcc tttagtgttt cagggtgaga ttcagtaagc taaaatatca 840
 gctgaggtta agcagtcagc actactcagc actgccgcat atcggctacc gcaatgttgg 900
 atggcatcag cgacaatgag tttcgcagct gcccgtcagt ttggtaacga gtatacattg 960
 ctgggtgtcg tataagcatc acgggtcgta tgtaagatc gtcgcttgac ctgatatgaa 1020
 acagattgtg ggcaattcag agcgtggctg ttcgttgggc gagaccacgt gcaatgaggc 1080

tgaatcggtc ctttctggga actcccactg tggccagcac caactccact tcactctctc 1140
tcactcatcg cccactccag gcacttttct tttctggcgc cttgtctctg ccttggtccg 1200
gtgtttatct ttgatcgatc gtattctttt ctttatcttc ttcttgtecc tcgctctgtc 1260
ggggtttctg ccaatccgtt tatctgccgc cctattgtta agacatgagc cagcctgttc 1320
ccgaccggat cccccagaat tgaagggtgc actcaccgcg cctctctctt cccgaacctc 1380
accctccatc tcgatgttcg cttcccacca tggcgaacta tcacaatggc aaccgcctt 1440
acggccagtc gggaaaccag ccgcactatg atgcctacac cctccgctc accgacccgc 1500
cgcttcgacg tatgccagc tacagtggg gggacgactc cagtctcttc gctccccaat 1560
ccagccagtc gagagtgcg gagagccacc gctatccgaa tcgtgcgagc gtgggcgagt 1620
attcagggtc gtttggccag cgcgataact acgccgatcc cagatatgcc catcttccct 1680
cggcagcttc gccgcgggcc cgcgccagc cccagtcgag ctatcaatac cagtacggct 1740
cactaggacc gatgtgcct acacagccct cgtacaatcc ccagcagtat gccgcgcccc 1800
cgacgacgtc acaacagcat accgggtaca gccggtgtc gtataacctc tcgaattcgt 1860
acggcaacgg taacaacaat atatcgcca ctcacagcc gtacaacctc gccgcttacc 1920
aagcgccag tcttggaat cttgggtctc ccacaatcca gcgccagtc agcatgcttt 1980
tcgctcaaac gccgctctct cccaacctgt atggatcgcc gcactcttcc ttacctccgc 2040
cgctccacc cgtggccct gaccatccct acggcgggcg accctcagtg gcataccca 2100
gcacatcacc tggagctcag tatggatttt cacaacactc atccaccgct tcgacctata 2160
gtcttgctc tcccaccag ccgggcacag cctacgcgtc cggcagcgga tctctgtcca 2220
gcatgacatc gttcaactcg cggccgtacc gcggagtcc gattccatcg cacatcttcc 2280
atccgtctcg ctttccgat cctagccgga cgccgtccgt agacgaggag ccgcctgagc 2340
ctccagcgca ctttcttcg ggcgatactt acgacaagtc atatggtgag gtgcgcatac 2400
cagcgcgatc cttccgaag ccgccgtac accagccca gtcgccgctg tcgccccaaa 2460
gaacggacac actgacgga catccccagg cgcgccgct tcccggggcc ccagtggaga 2520
ctgaatatgg gcataatgaac ggcacagcac agcccgctga ccataccct gggtatgatg 2580
acttggtccg agaagtcgac gccgctatcc cagacaaaca atgggcctct taccagattg 2640
ataggccact ccatattgac gggcattccc aggattctgt tgaccggctg aacttaccgg 2700

actcgcgcca gccgtcttca gattcgggta tcgcccattct ttcccctgat gagagacaca 2760
 cacatacaaa cggaagtatg gccacaggca cctggcagta tgtgaactac gatgcctaca 2820
 gcgatgagag cgaagctgaa gccgaggcgg ggctggcaat gctgcggatg gccgatgagg 2880
 aggagcgggc ccaggccgag cggttgacgg agcgggagcg tcgggaaacg aatgcctcga 2940
 cgaccagttc gcttgcaaaa cgcccgtcag ttacggctgc atcgccgatc caagccaccc 3000
 gtgcagattg gtatcccacc catagtggaa ataattcgct aggacattct cegtacgatg 3060
 atactgctct aggcgcaccc ccgtacggca atgaagccga ctattctggc catcatcagg 3120
 ttgcgacttc gggctcccgg cacagctcca atgcttcacg cgaggatcgg gcggagtact 3180
 ccgatgaata tgactatccc cccattgaag acgattacgc gtttcatccg ttccctcagc 3240
 tgccttcaac cgcacgagtt gacgccggag gcacaggcgg tctatcggag cccagcgcac 3300
 ataaccgccc gatgagtttt gattatggtg aggaaaccga tggctcctta ccgcatcgca 3360
 ggcaatcgca ccactcagga agtgaagggt cttttgaaga acctgggggat ctgttcttcc 3420
 atcctggaat gcgaccactt cctccacctc cggaggagcc tgcggataac gcgaaactac 3480
 taccgcacct gctgccagcc ggcacatacc gacaattgga gccggactat tcatecccat 3540
 atgttccggc tccttctcca gatgtgtacg caacggccgc acccagccct acccaattct 3600
 cgcgggtctac atctttgacg agtcatccca ttgcgcctcg tgctgaccct cctatcagat 3660
 ccaagaccga tgcagataag ttaaaataca agcagcaaca ggagatgctg ctgcggcagg 3720
 gagccctgaa gcttgattca cctatggatg ctggggccgc tgcaattccc ctcgatctac 3780
 ctgtaatccc cgccggtcgc cgcaagaagt tccatccgtc gaaactgtca tccgaggatt 3840
 tccgacgttg cgctgaacca tgggcgctca gcgctgttct aacctggatc cgggatctat 3900
 ctgaagagga gaatgacctg aaaaccacg ccgtagtcga tgctatcgtc gccttgttta 3960
 ctacaaaagt tccgacgatg aatattgccg atgctgagac ccttgccggc cgagtcgtgg 4020
 agaacatgtt tgaccaagga gctctcatta aggacgagga atgggtcaag ttcggcaatg 4080
 gacagatttc tgggtgtactg tttcagatta cgggcaccgg ctgctactcg cctgtgttac 4140
 atgagcaaga gacggatgcc gaagtgttg gacgctgcta ctgcacacac tgcatgcgga 4200
 cgctaaggaa ggtgaatctt agggcgcagg acatggagcc gcagaagaag gcggaggatt 4260
 ggggtgacatt ctacaaagt tcaaaagaag tattggaaaa gcaccctaag aaagagatcg 4320

accggcagaa caatctgcac gagattgtca ctaccgaaga ttctttcacc agccagcttg 4380
atgttttgcg agactgctat cgcgatcgac tggcaaattc tgaacctccc atcatccgcg 4440
cgaaacgcgc aacgaagttc ctcaatgac 4469

<210> 1952
<211> 3784
<212> DNA
<213> *Aspergillus nidulans*

<400> 1952

gacgaaccgg cttctggagc tactaggctc caaagggttc acgcgggata tgtgcgagca 60
gctgaagcgg agtaacatca ctgagctctg cgggcaggga cacctctacc ggggtgccgt 120
gctacatcac gccaggatgg acagccgcct ggtcctacaa cacagcctgg agtcgtggaa 180
aatgcccaga ctaagaaccc gaatggctcc actgagaaca atgacgacga cgatgaaggt 240
gttttggatg ttgcggtctat tgttagcggc aacaccagcg agttccttgc cgcgcgggag 300
aaagagaagg gaaataaaaa aggcgctgat cagggcgcgga aacctgttcg tcttcccaac 360
tctaagaagg agaaggccac gttccagtac caggagttcg tcaagttaga gccagagaag 420
catgcgccta ggggtccttc acgcttcacc cgcagacta gggatattga agttggcggt 480
gagcgggttct ttgctgcaac accgaagcaa gatactggag acagattgtc tagcagtatt 540
cttgaggata tagcaactca gatccatcac accatcctgg ccgtgccgga tgcgacaaag 600
cgcagtgagc tatgggattc actgatcggt gttggtaacg gtagtaaagt aaaaggttag 660
tctttctctc tcgaagcatt cctcgtccca gtttatttac taaatattgc aggcttcact 720
caagccctca tcagcacaat cactcagaag tttgtcctct cgcggtccgg cacaatcttt 780
acttcagaaa ttccatccaa cttctccact ccccttccca ccggcggaac aaataccccc 840
gccccgggct tccctgggtc aatgcaccat cccggcggaac aaggtgtaaa ccccttctt 900
gtcgcgcgca ctcaactccg caatcctatg cctccgggaa ccccttcaat ggaccctctc 960
tcccatcacc gctccactgg cactcgcag actccgacct ctgttcgcac cgtaaaacca 1020
ccagagtact tccccgagtg gaaggagcaa acagcaaccc agcagcctgc ccagaatcaa 1080
ccaggtctca atgggccccg cgggtccggca tctagtggca gccaccgtgg tatggaagaa 1140
gcagttttcc ttggagcgca ggttgctctc aaggtggttt ttgtgatcga tcagggcctc 1200

agtaaggggtt ttatgagccg tgttgagtat aatgagaatg gcccgtcggc gattcatgag 1260
 tatgttatgt gagcttcggc taaaccgatt atatggatgc caatccactt tcgcctcatc 1320
 tgtcattcga cgtcgagctt tttacttctc ctcttcagtg cttttatgta tcgtgggtttt 1380
 tacgagggcgt ggtctgttat ttcagaaaag caatctgtta ggatcatggt aggataggcg 1440
 gagttagtca agtagtagat atcaatgtat tcgtttaata actatgggat cttatagctt 1500
 tcacctcttg acgcgagtac ctacatctcg aaatggaagc acgtgatact gacacgtgac 1560
 tctgacggat aatcagctta tcgatcaccg ccactagcct ccgctcaact tctcattgac 1620
 ctaaactccg tacatttttg gcttgctcaag gatattgatc tgttatcgca aaaatgccgc 1680
 gcgctgaagc tggaagcacg aaagcgtca gtaacaagct gaaggccgta cgttttcttc 1740
 tgttcagac ataccttttc acagaatgaa gagctaact cgtgcagaaa ggtctaggtc 1800
 gtctgcgatg gtactgccaa gcttgcgagc gacaaatgcg cgatgaaaac ggtttcaaat 1860
 ggtgagttag tcgcatacta tagatgaaag taattttata acagatgtac taatgggtttt 1920
 cctagtcacg tccaaagcga aagtcacgtc cgacaagttc tgcttatcgg cgaggatccg 1980
 aaacgataca ttgaggattt cagcaggcag tttatcaaga atttcctgga tctgctgcgg 2040
 actaccacg gagagaagaa ggtgcacatc aatcagtttt atcagcaggt tategctgat 2100
 aaagagggtta gttttaacct atgctttata cttgtaaaaa gagttgttgc tgacctgttt 2160
 tgctgtagca cattcatatg aacgcgacga aatggaagag tcttaccag tttgcagcgc 2220
 accaaggacg tgaggggctg tgccatgttg aggagacgga gaaggcctg tttgtttcgt 2280
 atattgatcg gaggccagaa gcgatgcgac ggagagaggc gatcatgaag aaggaacggc 2340
 aggatcgagt agacgaggag cgggagcagc ggtaataca ggagcaagt gagcgggcga 2400
 gagcaaagga aaagcaggag gagattggtc cggaggcgag gaatctgcag cgtaaggaag 2460
 gtgagaaggt caagttaaatt attggattcg gtgcgaaagc cagcccgcca gcatcgaccg 2520
 agcagtcgag aacacagtct cccgatgaga aagagaagga caaggataag gaatcctcct 2580
 ctgcaacgcc cgaatcatca gccactgcct ctcccgacc atctcaaaac cctcaggccg 2640
 caccgaaagt gtctatgtcg ctaggtggtg gaaatagcaa acccaaaaac gtgtttgcat 2700
 ccgcggcgaa gaagaaccgc ctggctggga aaaaagctac tgtcgtggcc cctccgaaga 2760
 agatgtctga acaggagcgg atcatgaaac aggagatgga ggccatggag cggaagcgct 2820

tgggaggagg cggaatgcc aattctaagc ggccataagt gtcataagc gacattgttt 2880
 cgtcccttat caaggagccc taagaggagg tctcctcaac ccccgagc tctgcaggct 2940
 ccatcgaccc ctggttcttg gctggtccag cgagtataat ggttggtcgc ttactctgga 3000
 gaatttcaaa caatgcacgg taatgactga aggagctgaa ggacaagaat accagaacca 3060
 tttctccggg tccctgacgt gctttgtccg gactccagac cattgataat ggagcagttc 3120
 atgtcagacg ggtgctggca tccgccacac tcttcatccc tgtatctatt cgccgatttg 3180
 ggattattag cgtcaaaata agattatgac ggcgccatca cttaatcctg gcaggtcagc 3240
 acgatcggtg ccaccagcca caatcaacct agaccctacg tgaccgcatt cttcaattcc 3300
 caatggctct tccactttag aataatagtc tttagttgat taatctagcc tccccagtcg 3360
 ccgcccggagt tggagtttcc gcttacgaaa gacggtgacc cgtttaaggg gcggtttcag 3420
 cgcacggtg aaacgcaatt ccaccatcca gcgctcaacc tcattttaac atcgttatct 3480
 aaaacaacgt cgtctggtga ttggagtctc gacaagcctg gaccaccgtg caatatgctg 3540
 gtatctttac cttttcgccc tacgggggatg gtataatagc gtcactcttc ccggacctgc 3600
 agctcaagtg gaagatcacc tagcttgctg ttccttttgg tgtttccatt cgctacttca 3660
 tatcgccggt cgatatactt ccgttcattc cgaaaatgaa gatttttctt ttaggcgcgg 3720
 tgctctgtgc ggccgagagc gtcaccgctg ccctcgatgc gtcgctcctt gaaacctatg 3780
 ttga 3784

<210> 1953
 <211> 3992
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1953

tgtttttgat atagaaatct tccaaatgcc aagcaagggc ctcttcgtat ttgattcgag 60
 ttcgagcaat ctcttctggc gtcattgtccg tattagtcac ctgttggtgtt ttctgtttgg 120
 gcacgttcgt tcgccttgga accgatccga cagatggggc tatttgagca agattatctg 180
 ctggttcttt ctgcgcgcga atctttctgg cctccatctc ttctcgttca atatcatcga 240
 cttgattgct cgtctcagaa gattgcctta atccagcttg ccttttctcc gtgttcaact 300
 catgctgacg tgtccgcgga tcccggcgct ggagcctaac gggccttggt aactgagact 360

cattgcgggg atccaccgcc ttcttagagg cgaatctcgc gatgtgatgc tttaaaccct 420
ccttgattgc ccgcttcgta gttacgagag gataatccac gtaagtctcg gatactaagg 480
gcccgctaaa tccactagca gcgaagtcgc ttttcgctgc gggatatgttt ggtttctcgg 540
atggcgcatc agacggtgct ggctgtgtag gaaacgacct aagcgcttgc gtgttggtcg 600
aagagccctt tgctgtagtc ctcttttttg ggctacaag cgggtcagct accctaggtc 660
gccgaatgcg cataggtggt gcgccagata tcaccgttgg agcctgcggg gtcgaactgt 720
ttgaaggcgt agtagtcatg atgtctgctg ctctgtgtcc gaacgcaaag acagtacgat 780
aatcccgaga caattggaga cacgcgcaac atctgacgtc cgattagttt cagattggag 840
ctcgagtaat atgcattcgc ttgactcagt aaccagggga caatccaaat ggagaaagct 900
gacaccctgc ataagatgaa gagagtccg atacggagag tatgtccgta agcaacatat 960
cattgcttat gtaataaaca gtttgaggac cacttaactc tcagaatttg gagagccaaa 1020
gccagcctga acttccttca ataaattgac gagaattact tcatacatc ttaattcgca 1080
gtttaaaatt ctacataga aagtaggata cattctttcc ttctagtaac cgcgcataat 1140
ggctctacgca gttcagtcga ctacgcctt ggaagcaatg aggaacaggc ccattgtatg 1200
tacatttagc atgtacattt agcagccaca gggctggcag atgccatgca aatgccataa 1260
tacagtacaa tcaacataac tgctccacct catccgtgaa ctctctggta taggtcggca 1320
taagctttct atcggatgta tataaatatc atgcattggc accatgaagc gaaggaacta 1380
gaacaattcc acgacctttc tatcatcatc ctgattctgc cctgccgatg agtttccttc 1440
atcctcttcg tctcgcataa tgacctggac ccatctatca caggcctcac gaacgccgtc 1500
gtcgtcaaca cggaggtgac attctcggat aacgggatag acgttcaactg cccttagttt 1560
atcgcgtcct tcccgggtag ttgtcaacaa taaaagcgtc tcaagatgag taacgataat 1620
tccattatcg ctttctctct tcttgctcgg ggcagcaac tggaggtctg ggagcatatt 1680
tgcagtatcc tcttactat actcttcgg ccccataatt ggcagaagta tgtaaggcag 1740
aagattcgcc tcgtcttcag agaagagggt cggatgaaat ggtatttcaa atgcaacatt 1800
ctttatggtc gatgcaacac ccctcctccg gaccgtgctc tcatgctccg tgaaaacggc 1860
gagttttgtc acaggcacga ctccatcata atcctgtctc gttgtgaaat atttgcggcc 1920
ctcctctagc ttcgacaagt cggcaaatag ataagataga tagtcgtagt tcgcgtgttg 1980

gttgagtgcg ccgtcggcgc ctttcacgaa acaatccatc aactgggtcaa ttgcatactc 2040
 ggagtttgag acaggattgg ccgttcgacg tttaagcgtc aatagctctt ttatatcttc 2100
 ggattttcca agattggcaa acagcataca gatcccatcg gcatttcctt ctttggtatt 2160
 ctgccaactg gcttggttagt ggaccgatgc agtgagtaaa gatcaaaata accgaggtaa 2220
 cagagagagt gaatgggata gccttggtcg aaccaaagt tgcagaaacc tacagtcact 2280
 ttggtgagga gtgtttccat aaaagcatca tcagtagcaa gtttatctag gatctcctta 2340
 tcaccagaaa ggttgacgag aattgttaac gcatcgctcg caataggcta tccagcaggt 2400
 cagttccatg aagaaggggc agaatgaaat cccatatgtt caattcaaaa aggggcatgc 2460
 tcactgactg tatagtctcg aacaagaagt tttaagtctt ggataggcaa aagctggtga 2520
 cgtttgaaga tttccggcct cgacaccgaa tatccaacta atgttgcgca ggctggatag 2580
 tgttatcatc aattcagact gtgtttctaa gctgcattta ccaatctgtc tgatctgagt 2640
 gtttccatga tggagaaatt caaccaactg gaaacgcagg aacaagttag ttagggataa 2700
 gcttatgcaa tgagatacca tacttcgtcc agttctgtct tcatactcag gtttttcagg 2760
 ttatttatag tgatttgacc gtcagagcag cagagcagga gttcaagtga gttggaggaa 2820
 aatacttcag ctaactttct cagaagcggg gcagttctta tcgataaggg cgtggggcaa 2880
 acaatgaatt gaagtcagtc catgaccagc ttagacaatc aatgggtctaa agaaatattg 2940
 ggcgccctag aacgttaata tttgaatatc tacttctctt gttttactag agggcatctg 3000
 gaaaggtctt ttgggagaca gctcagtgat gataacttag caggtgcgtc tctcgtccat 3060
 tgacatttgg aaagggcgtg gccattctg acaacccaaa tatcaatctc agtaaaactcg 3120
 atgaggacat ttgacaact accagcgatg ccgagcgtgg cgtccttgca gctcagcttg 3180
 ttttgaatcg cagatttccg gcgtattcgt acatgtccat cgattcgtta tcgcaagtta 3240
 cgatttccaa gggaatccgg aaagctgcct ggattcttcg aggcctgcct cgacacagtc 3300
 gggtgaccat atcaattaca attaggggaa ttctcagatg ttctggctaa cattctctgc 3360
 tatgccaacc gccggagctg gacctccgg gctgtcttcg cagagatact ctgggtctga 3420
 ggagcttggc ccgaagtggg catctactag atgctgcacg actggccagc cgtaggcatt 3480
 tgtgaacata cgccgaacga ttatgttggt gtgagcgtca ggttctaaac gaacaaggac 3540
 ctttcgccac gagagtcctc ggtggtaagc ccgagcgatt ttttctcca ctttgagccc 3600

cgcgttattt gaaaagtcct tcgcgatatc gtaacctgca gcagtatccc taacctggga 3660
 tgtacgtgcc gctacactgc gccggttcac aatgggaggg ggaatgtcct taggggtggta 3720
 aacacggtcg tgcaagatcg tacgtggcct tgattcggga ttgactatgt agtcgactgg 3780
 gggaaggggt ggcataagga tgtcaccagc tgattcaa atcagttgttc ttgggggcgc 3840
 ggtgaagcca gtatcataag aatcatggtc aaagtagggt ccatcttgct gtctcagatc 3900
 ttgggttatc gaaggagcga tcgtttgact gcgtgtaagg attttagctt gcttgcgccc 3960
 atgctccttt ggctgaaca aagagaacag gc 3992

<210> 1954
 <211> 1048
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1954
 ctttatataa tgctgtaaag gaataagaac tgtaccaagt aacaaaggta aattgagcca 60
 ggattaaagc tgggtctttca tatcaagcgc tgtaatggtc gttaaaagcg ggatttaact 120
 aatgaaaatc caagactatt acctccctta agctaagaaa tggaaacttg tgttggcacg 180
 ccttaaatgc caatacgtgt ttccaatcag tctatccatt aagtttgttt gtttttgccg 240
 ggttgcataa gggttactat caaacctctt tgccagtctg agcctagatt caaggggggg 300
 cgggctgtcc actggataca ggtatggcgt gggctggagt ttgcttttct atcagccagc 360
 cagccagata gctagaagta ggtggctgat ttatataatt ggagaatata tcctctgcag 420
 gcatttgacg ctctctgat ctgtgtcatt gtagtggaa gacccaactg gtttttacac 480
 acagatggaa aggtgaagag gttctccaga tgggaaagta cgggtgtatac gaataatgat 540
 ctagacatca aaccgctgg aaacacaccg taaaaacccc ctgtccttcc tgtccaccga 600
 acctgaaccg gggatactgc acttttcccc acacaacgag ctteccactc ccattgatct 660
 ggatttcagc agaagtaaac cacttcacaa tctcctcctc ggtccaatta caacttgtca 720
 caaccaagaa tccgcccttg cgcacaaggc ttcccgaat ccccggtatc cgtcacact 780
 cgtcttttcc gaccatcaaa ctacagcat caaacgttcc cttgtcaagc acgatatcga 840
 agccaccctt gtcatacggg aaccagggaa cttcttgcct ctgcaggctc tctcgacaat 900
 ttagaatgtc acattcttcg aatcgaattt catgccattc ttcttcgcct tcgtcttccg 960

ccttggtctc gcctccatca tcagaccatg aaccttcgtc atcctcctca tcagaatcac 1020
 ttagataagc ctcgtagcgc ttggtgat 1048

<210> 1955
 <211> 2695
 <212> DNA
 <213> Aspergillus nidulans
 <400> 1955

tgaccgacta ccaaacaagc tagctctata cctcactacg cttggggtaa taccttagtt 60
 catggttgct ctttgttttg aaaaatcaaa atgggctttg gtcgcaaacc tcgctgtttt 120
 gaaggctggg ggcgcgggtg tccctattcg agctgatccc attcagcgtg tgcaaaacat 180
 cttgcaacag actggcatta caacgatcct cgcctctgag ggctttgctt cggcgcttga 240
 aggttttagtg cctaattgaa taactatagg cgatgatctg atccagtcgc tcccaagccc 300
 tgtcacgcag cccatctcaa ccgttacacc ttccaatgct gcgttcgtca tcttcacttc 360
 cgggtcgact ggaaacccca aggggtgctg cgttgagcat ggcgctatgt caaccagcat 420
 gcaggcacat ggcaagaagt tcggcatgaa ctgagagacc cgcgccttca atttcgcca 480
 ctttacgttc gacatctcgc tccatgacat tatatcaacg ctgcaattcg gcggctgtgt 540
 ttgcatgcca tcagaaagag agcgagtaaa taacatggcc gatgcaatga atcgatggg 600
 agttaactac tcgttccttc ctccacgtgt tatacatacc atcaagccgt ctgacgtgcc 660
 gggcctcaag accttagtgg taggtggtga agcggtgcaa ccagaatacc tggaaccctg 720
 gctaaatggt gttcgtgtat tcaatgccta cggccccgcg gaatgtagta tcgccgccac 780
 ctgcaatgag gttgccaata aagcggatgt gccgaatac gcccgtagca tagcaggtgg 840
 cctctgggtg gtggatgaga acaactacaa ccgacttcta cctcttgggg cagtgggtga 900
 gcttctgacg gaggggtctc tactcgctcg aggctacttg aacgacccta ttaagacagc 960
 caatgcattt atttgcaatc ctgcctggat ctcccgttac tctgaacacg accattgttc 1020
 acagcgccgc gagcggcgca tgtatcgac tggtgatctg gtacgtcaga tggaagacgg 1080
 atcacttatc tatgtcggac gacgcgatgg tcaagtcaaa attcgcgggc aacgagtcga 1140
 aatcggggaa attgagcacc atgtaccga gcacccctct gtggtagaga atgtgatagt 1200
 ttaccctcac tgtggcccag ccagttgca gctcgttggg atattgacat tgcattgatt 1260

cattttcttct gacgcagatg agggaaatcca aaccacgccc ctgcaccagc ttcccatgc 1320
cctgcagcaa gcttcatccg tccgtgatca cctacactct tgtattcccg agtatatggc 1380
tcccaactcc tggatatcac ttgcagcaat gccgcacaac agttccgaca agattgatcg 1440
tcgccgactc acgcaatggc tggagaccat ggaggtggaa cattttaaaa tcctcacgca 1500
aagctacacg gagggtagca caactccaag cacatccgaa gagaaaaaca tccaagctgt 1560
ctgggcccgat gtactccacg cttcgattgg aaaggccct atgagtcgcc cgttcttggc 1620
tgtggatggc gactcagtta ctgctatgca agtcgtgtca aagtgtcgca gccaatattc 1680
catctatgtt actgttcgag atgtgtgca atgcgaatca atctctcaac tggcgaagaa 1740
ggctgtgatt aagaccacga gtccaacac tgacactcag ctctctacct cttcaatcga 1800
tcaagctcca gccgtacaa ggcaccaac ggcctttgat atcaacgccg gcgacttgtc 1860
taagcttgag accgacgtgc ttccgcggac cggcgctcag aacctttctg caattgagag 1920
catttactat tgctccccta tccaacaagg catcttgatg agccagatca aggaccacac 1980
aacatatcaa gtgcgccagg ccggagagat tcgtgccgct gattcttcac cggctgacat 2040
gaaccgactc ctacgcgcgt ggcagttggc tgtgcagcga catgtatttc tacgtacatt 2100
ctttgtccct agtccatcgg gacgggaact cttttatcaa gttgtactca aaagatacac 2160
tccaacaata ccagtgtgac agtcttgacg tagtgatgat ttccttgctc aattcgaagg 2220
actcgaacgt ccggagtacg ccccggggca gccgccttac cagctcaccg tagcccaagc 2280
ttctacaggc caagtttacg cccaggttga tgtcaaccac gttctaattg acgcctcatc 2340
catggatcta attctcaatg atctcattct ggcatatgat aatatgcttc cagactcgcc 2400
tgctccatca tatggcatct atgtctcggt cctgcaacag accttcgctt tcgactccct 2460
gaactactgg acgaatcacc ttgctgggtg agagccgtca tgccttctg cctcttctaa 2520
tctagactcc ggaaagcgct ccttgagaac ggtttctctc gaagtagata acataaaacc 2580
tctgcaagat ttcagagaca cgcattggagt tacgattgca aacatcacac agctcgccctg 2640
ggccacgggt ttatctcggt atcttggttc ccgcgatgtc agctttggct atatt 2695

<210> 1956
<211> 1164
<212> DNA
<213> *Aspergillus nidulans*

<400> 1956

atgtgtgaaa gctccggcac ctgcggcagc ttcagctctt caccatcgga taggtatgct 60
gctcgacaga aactcgacag atttcacttc ctggcagaca agtggtaggc cataactcgg 120
ttctttgtcc gcttgggaca aaactgggtga agattagatt tgtatactcg acagcctggc 180
gtgaacaggt cagctggcta gatctctatc tcgaccacct ttattgcgtt cgagcatgct 240
gcactcgttg gaccgtgtct agggcgtgat tcggtttggt gaagaccttc ctcaaacggg 300
ttcttttcat gctggatttg gtgagtctct accttagcta catccgacag tccccttcca 360
agccaacagt atctggttca gagcatccat gaagacgaga atgtcttcga agtgccagag 420
gtagtgata taattgactg gccagtttgg ctgagatagc agccaatact gaagcaattg 480
ggaggaagca aacgagcgag ccacggcatg gtccttgaag ggcgttctcg ttggttgga 540
ttttactcag gtcaaggagc gttccgtata tcttggctgc tggtaatcaa gaccagcttg 600
ccttctatac ccagaagttg tcttacctgg gatctgcagg attcagatgc gctagacgtt 660
tgtcaggttc tcgtgcgtag tgtaggggtt gaggttgcaa gggatattga tgggcagaac 720
ttgagcaggt cttaggggta aggacaagaa caaatggacg agttgaaggc gttctcagac 780
taagtggata ggtgagggtc acggcttctt tatgcttggt acgcgccttc tatagctgaa 840
ttggggggatt ccgtcctttc tatagtagct aactggcag gcttagctgt gtgaatagta 900
ctgcttgagg actataccat tcaaaatagg acgatgtttg atgactcgtt tctcatgtct 960
atcactatgt acaaattcta tatctaaata acatgtaaca agctcagcat ccttcattaa 1020
agcggtttat tagatattag aagccaacaa cacgcggctt ctcaaattggc tctgcaggcc 1080
atccttgcac ggtgacggca tcgtcgacgc agtctcctga caagacaagc gtatgctcca 1140
gcaaacaggc gtccttgccc attg 1164

<210> 1957

<211> 3186

<212> DNA

<213> *Aspergillus nidulans*

<400> 1957

aaaggttggt gataaggaag ggctcgcccta ggtggagtat tggtgccga tggaatgata 60
agatctatgc ccgtcatacc cctgggttcg aagcgacagt ttctggacct gagcagaagg 120

cacaattggt ttggcaggct catccccgtc cgactggaat tccgttcaat ctgacgccat 180
tcgtcataac cttaaagtgcg cttactgaca gctccgacc gcaactgcca cccactgata 240
cccgccttcg tcccgatcaa cgcgcaatgg aggaaggcga atacgacttt gccgctaccg 300
aaaaacatag ggtcgaagaa aagcagcgtg ctaagcgaag ggaaagggaa gctaattggtg 360
aggagtataa gcccaaattg ttcagcaagg ccaagtgtcc aatcacgggt gaagaatact 420
gggctcacac cgggtgattac tggggttgta gggctaggca agattggagc aagtgcgaag 480
atatcttctg atagtacaag tcagttatat tttataata ctatcagtat atacaagctt 540
ttgactacgt ctgtgcgagc tgcttctatc aggtgtctct ctaccggata aatacctaga 600
ccgtggcttg tccgcaagcc ggttaaattc aagcgcctaa tgaagattcc ctgcgcaaac 660
ccgcagccc cgccagtgga caaagctgtg gcagctccaa gcaacctgac tgctcgattg 720
accattttgt cctgtgggcc atagcgggga gtatctggtc ccatgaccgc cttctctgag 780
attatttctt gatggactta gataattaac tgacaatcca cgccatggta taaattccgg 840
ccactctctt cgctaagca tgcttttgtc aattatctat actcaatcca cacaatgagc 900
tcacagacc caacagctca ggtatgtgct actctaattg ggttgacttg tataaactaa 960
tataagtaga acctctcctt cgtcctcgaa ggcattcatc ggggtcaaatt cgaggatcgc 1020
cccatcccaa agctcaaaag ccctcatgat gtcacgtga acgttaaata cacaggcatc 1080
tgcggcagcg atgtatgtac atgaccacaa acgaccggga caatcgggct aacacaccag 1140
gttcactact gggatcacgg agctattggg caatttgtag tcaaggaacc catggtcctc 1200
ggccatgaat cttccggaat agtcacacaa attggatcag ccgtcactag tctaaaagtg 1260
ggcgaccacg ttgcaatgga gcctggtatt ccctgccgac ggtgcgagcc ctgcaaagcg 1320
ggcaagtaca acctctgtga gaaaatggct tttgccgcaa ccccgccgta tgacggtact 1380
ttggccaagt actacacgct gccgaagac ttctgttaca aactgcccga gtcgatcagc 1440
ctgcccgagg gtgcactcat ggagcccctg ggagtcgccg tacacatagt gagacaagcg 1500
aatgttactc cgggtcaaac cgttgtagtc tttggagctg gtccagtggg tctattgtgc 1560
tgtgcggtag ccaaagcttt cgggtgcgac agaatcatag ccgttgatat ccaaagcca 1620
agattggatt ttgcaaaaaa attcgccgca acagccacat tcgagccgtc gaaggccccc 1680
gcgaccgaaa acgctacccg catgattgca gagaatgacc ttgggagggg tgctgatgtc 1740

gcgattgatg cttcggtgtg tgagccgtca gttcacacgg gtatccatgt tctccgcccc 1800
 ggtggcacct atgtacaagg tggcatgggt cggagtgaga tgaatttccc catcatggcg 1860
 gcttgacta aggaactgaa tatcaaggga agcttccgat atggtagtgg tgattataag 1920
 ctggcagtac aactcgtggc ttctgggcag atcaacgtca aggaactgat tactggcatt 1980
 gtcaaatttg aagacgccga gcaagctttt aaggacgtta aaaccggaaa aggcattaaa 2040
 acgcttattg ctggccctgg cgcgcataa gcgcttgatg ccgcgtacat agtgaatctg 2100
 atataaccat tttcaattta ctaatttaca ctatatgatt tacataactaa gctttaaacg 2160
 tcgcctcata tctatgaact cattagccat cagcaacctt gaataggaca aagatcatal 2220
 ctcttccctc tgaacgccca caaaccccag ttgccacaag aaatgtcatg tgggtcaagg 2280
 tcattaagat ccacccgag actacggaat atattctcac cgggctcgag tagaatgtca 2340
 aattcgccgg cacacttctc acgcaccag ttgatatctc tctccatata ccaactgtgta 2400
 tagccagtgg tgatgattgg aaccttggtc tccagcagca gaggcaatgt ttcctccac 2460
 tcgtgggagc tggcaggggtg tccaagaccg gggtggaaga gcacaatgca gtccaggtag 2520
 gggtcgaaag gctgaaagta ttgtgcctta tacatcgtgt ggaaataatc cacatatgtt 2580
 gttattttca tctgaccacc tagtctgtct tcaacaattc ctccgaaagg gttctcaggc 2640
 gtgcgctcgg gcaggggaaa ctctcgtcg cggttcgcca tgctctcagg gccgatgaag 2700
 atgagatgga tgagagaccg tgggaaaata tggctgagtt gaagccacac atcgcgaggt 2760
 agagatgatt cagcgcgcgc tcctaggata aagatccgca caggaggtgc ttttactcgc 2820
 aggccctgga tatcgacgcc ctccccggtc ctaggcggat gtagggagta tcgaagggt 2880
 aacagtgatt agcgggtgtca aaaattagta ccagaaagct taccgctcac actcttaaga 2940
 ccctcggttg taagtctctg attttttctg atgctataag ggctcagttc atgcaatata 3000
 ctccgattg tgagcgggta tgtcagcatc cgcgtcacct gccgcatact ccggtcatca 3060
 ttaatcgcat caaactctct tgtgtaaaga aaagtatccc agttcgtcat gtttatgacg 3120
 aagttttcat cttgcaggcc gggcattaca aactccggga aaaaacgccc agagcgcaga 3180
 tcatgg 3186

<210> 1958
 <211> 4128

<212> DNA
 <213> *Aspergillus nidulans*
 <400> 1958

```

atccagctag attgctcctc ctggtattgt agaacctaaa cgtcctccgc tttcgactta   60
gaaagccatc aacatcaata cttaacacaa gaagtcggaa agaaacggat taagtacaca  120
aatgcaaaca atcagcgtca tgaagcgaga actagcctcc agcaggactc gacaactcag  180
ttgccaccat gattcgctgt cgaacgtttt cgtgaccgta taatatcgta acatcgatgat  240
cctcatcatc gctgctgtaa gtactgtgcg agaaggtaca tctactgaaga ggaaaagagc  300
gtagttttga taaatgacaa acatatgctt cgggctgaac atgcgagaca cgaaagggaa  360
ataccggttc ccagaacaaa ataaggaaaa acgtaggaca gttgaggaat gaccgagaca  420
atcaaatgta ggtgacagag aaagagcttc aatgcgagtc tcataatcat aaatgcttgc  480
atatctcgtc gtgcttttcg tatcgcttag ttgccgagcc atatatatgt gcttagattc  540
agtcgtttcta attctcacgc atcacaagtg tcaatactac ttccttggaa aggcagtcaa  600
agtcgttcct gttgaatttt gacgctgaac ggccacggag gtaggttcct tgcgaaatcgt  660
cagtatgaaa ttccatatag gaaaggggaa acttaccaaa tttttcaacg tgctggcgaa  720
cttcagtcat tgtgttgagc acgtcaggat ttgagtgcag caagtgatga tgcttggatg  780
tgtccagtc ggagaatgaa ggcaacttct gagagatcgc ctggaacaaa ccgacaatga  840
ctccgacagg agtagtctcc atatcatggc agaatttctc cactgcagca gcgtcctatt  900
ccttaagtta gtaagaacct ttgtgcctca aaaaaaagg acatacggga gtgcggtagt  960
gacagtcaaa ctgcatttcc tcccagactg cgagaaggat tgacgcgagc atgaagattg 1020
taggccagtt cttcaatttc tcgccgctgt agacactgga atagagactc gacagttcct 1080
ccaggacatc cttctgtagc tcacgccaca tgctagctag ggcgcacttg acttggaat 1140
tgatcatcac ggggtgccacc gtcttgccct tgaatttcga gctcgggtct tcaatcttgc 1200
ccaggaagcc ttcttcatca ccaacgccct ccaccattgt gacatgaagt gtcaggttat 1260
aagcaagaat aagcttcaag gccttgcgga tcacgggcat ctttgtgcgg aaataatacc 1320
ggaatgcggt ttttagcatc tgcgttagga atggggtgcc ctcgaagtaa tcatcgacga 1380
acttctcaaa ggtaccgttg ccgtcgatat ggcgatccaa gtagtcggac agcatggcat 1440
gtgagactcc ttccataccg gcggacaatt tcgctgtttc aacctgaac tggctgggtt 1500

```


cgcggttcat accctccacc cagtcaatac tgaaacactg ttcgttgtgc acatacactt 1560
 cgcgcgcat gatcggaagc acctgcccac atccgtgggt aatgaagagc gtctctcttt 1620
 ggtctgagaa tcccttaata ttgccaactg agaaaccgag ggtgatgtgt cgctcatagt 1680
 ctgccttcca gtccttcata aagtaaccga tttccttaat gtcaatacgg gtgcagggaa 1740
 cctgccataa tctagcatgc gaaggttggc aaccgcgcga tggctcgccc ttgtcgcaact 1800
 atttcgggta gtgaattttg gatgttggta ataagcttga gagtcttaca gtcttcttga 1860
 ggaacttgca acgtagacag gctcgtaact tgcaatctc actggcctgc tttcgctggg 1920
 cgggcctcag agggcccttg cgcttccta cttcttctc acctggctca gacttcccgt 1980
 gcgattgctt gcggaacctg gtctcagcag tcttcgcagc gatcgggctc ttgcgagacc 2040
 cctttctgct cgggggtgaa gacgagctgg ctgaagagcg tgcggtgaa gtgtctttct 2100
 ttgcaggaac ttggatgggt cggacaatag cagcggggct aattgccgtg ggtgattgcg 2160
 aaccatgaga tgtgtggtcg taggaaacac gtcggttcac gggactgttg aatgcggact 2220
 cgaaattggt ttccgagcat ggcaattga ccggattgga gacctccaca aagctgccgt 2280
 atgatgtcga gtacgaggac tcggagagac ttctgtcgtg tagagtctgt gtcgggttga 2340
 tgaagacctg atccgggaaa gaaaactcat gtgaatgacg gggctcgatc atactccaac 2400
 cgttatcact acttgaacta gtgagcgacc gaacctcgag gtacgtgtcc gtcggcgaa 2460
 tgcttccaac catattctgt ggtgccgat aggaagacat gtccggaagg ccgtgagttt 2520
 gaaatccaag cagatctgtc tggagatctt ggtactgata tgaaccatg tcaacgggcg 2580
 cagcgagagg taaataaggc ccgtcgagca ggctagtgt catgtgaccg tgaggtgccg 2640
 acatcatatc aataggagac gagtggatag tcatgccata gcttgcgggtg gtgaactggg 2700
 gagcggcagc agcctcatcc tgaggatatt gaaggtgggg ttgtaaatgt tgaattgcc 2760
 agtcaacgat gaggtttgga tcttgggcta ctgtctgctc gaaggagtga ccgctgggtt 2820
 gcaagggtga gatattctgc gaagcgtctg cccgctgggtc caccgccaca ggcatgact 2880
 gagcctgaat gtagttctc gagtcataat caagcccgat aaagccgtcg ccggtcaaat 2940
 ccacattaga catggtcact gtagcctata tccagagata aagacaacaa aagtcgaaat 3000
 cagagagggtg gaggggtgtc aaagacgaaa gtcgtacaaa agagaagaaa agctggatgg 3060
 aagatgacca cgaagcctca gggaaaaggc actcggatga gcagaaagcc cagaatccgg 3120

ggggtgcgaga ggaagaagag ggcacggcga taggatgaga ccatggcggg cagaagcggg 3180
 ggggagcaaa gcagcgggta agcgggaagg gcgtagccg gagatacgct aggggaacct 3240
 gggaaggagt tatcgctatc ggggtggggc accgcttggc cttcgagtag gaagactgcg 3300
 tactgctgct aatgccacgc gcgtggcgct ttcgttgggt ggagtgggtc caaactcgca 3360
 cacatgttgc ctgttgcaagt ttagttctcc tacagccagc aggattgagg cgatgatgga 3420
 ccactaaggc gtcaagcagc cagtcccatg attatcatct catcatcgaa ctcgaaagac 3480
 gagtgtggc tgcaactcgg agcccgggc gactacgact ggaaattggt catagagata 3540
 ctcaatagag agtagcttac tccgtctgtt gagctaaca tgcccacagg gtccacggta 3600
 cggcccttct ctttttcagg aataagaatg ctgacttgct gacaggatca atcccaatcc 3660
 actccagagt ggtgattcta cgttgcagtt ggcgctcgct atcaacgtcc tgcattattgc 3720
 ttcagtcgag actcggccaa acctcaatgc ctgaaggaaa cgcctgggtc ttcaaaaagg 3780
 agtcccatgg caccgtgcgg ctttgccggg cgagagacat gggacgcgct ctcgggaaga 3840
 ggaagatcag tggaaattca tggcctcaga tctgttgagg cgagcgccga tccgcgggcg 3900
 tggcaataat acatacgag gaccgtcgga ggcgagaaag cctggcccgg actgaccccg 3960
 ctgaccatga agcacaagg tgaagcacg gccgtgtcaa gcagctgtga cagggtctgt 4020
 cggagtaaatt tcgcttgccc gaggactcgc catcatatgg agcaagagca ttcttctgtc 4080
 gcttaattct atttgtttag tgaggaagaa acaagttgaa agtcatgt 4128

<210> 1959
 <211> 1913
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1959

gaactaatgc cgtccgtca gattgtctaa gcctttcacc ctccctcccg aaactcacat 60
 tctacgttcc cgttacacca catacatggg tgagtcgcac ccggccgaga ataaggctgt 120
 cgtcgaactc tccagcagcg atctcgctcc caggtaacct accgagggcg agcgccaaac 180
 cctcctcaag ctgggtcggcc cccgctacaa cctgataca gacatcatcc gtatgtcctg 240
 cgagaaattt gacacccgcg ccgagaacaa gcgttatcta ggagatctca tcgagacct 300
 gctcaaggag gccaaaggaag gcgactcatt cgccgacata cctctcgacc tccgtcacca 360

caagccgaag aagacgctgc agttcccgaa agaattggatc atgactgagg agcgcaagaa 420
gcaactcgag gctacccgtg ctgagcgaaa acgtcttgag caacagagac aggggtgtgt 480
agatggaaat gcggtcattg cgcagggcgt caagacactt cccgctctaa atcctgccct 540
gaaggctcat gcgacggcgg agcgcgagaa ggttgctgtg aaagtcgggg ctagggggca 600
gaagcagaag ctacgctagg agaatatcat gaagtcagcc atggacgttg atgttgtaga 660
atctctgtat ctttgcttga ggatagcgca gggccgttta gactatTTTT cactttaatg 720
tactatacta ttagcacttt atcttctaca tacctcattt ttcgatacaa gaaatagttg 780
gcagccagta atatcgggat tctataatTT gttattccgt aaaaatcctt tttcgcaacg 840
gaaacccttt gtagttcagt aagatttcac cttataacgc cgggcggctt acttctccgc 900
tttctacgtt tctatcctcg tccgcctcg ttaggtacat tatgccggac cgaagggaag 960
tacatataaa cgggagaccc agtatagtac aagctaagac ggcatagaat gacaaacaaa 1020
ttgaaaggtg agagggaaaa gaaggaaagg aaagcacaag caagaaataa gaagagagag 1080
aaggaaatga ggaaggggga aaaggaacag agaaatagag gagaaaatag agaaagctgc 1140
tgaagaaaac ggagaacaat aagaaaaaat cgggtgtagat gtcgaacggt gataatccaa 1200
ccatggccga ctgccttcaa agcaagtcgg tcgttgtagt tatgtatccc aagaacaccc 1260
gccgatgaag tcccttcgtg gtaaaggaaa ggtattgacg tgggggaata gcgtgtggtt 1320
ctcttaaagc catttggtat cgaaacaatt cacatatcc cttcacctta ctaattcata 1380
tacgacacat acatgcctct gttgccgaaa aggtgcagta ggtatattta agcgagaagc 1440
ggccaccgtt gtagcatatt gtagcataat atgggagttt ataccctgcc ctgaagttag 1500
cgtaaaccag ggaagaaaca aatagccaat gtcgcttgg tgtgagaaga atctattggt 1560
ctgatgtcgg ttttggtaga ccgtgatggt aaatagtctt gttactTTTT gccgcgcaag 1620
tatgtatcat cctcaagagg actcaaccga ttgtttgcc tggatctct tcgtgccaat 1680
cgtaccgaaa gccttggctt gacctctgtt attccttccc cggccgcgga ataccccagg 1740
gctagcgcca ggggatgaag cgcttggaga tggccacga gtgggcgggt tagagttagt 1800
acttctgcga ccaatgtccg ccaccgggct ggcaaccgcg gagccagtgg tcttagaggt 1860
gggcgaggcc ccattagacg atgccgtggc ctggttatgt atgcaacaag gtg 1913

<210> 1960
 <211> 2743
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1960

cgctaaccat gctaacacccc ggagaggggt ctggagcggg ggatttgtcg agcgagctat 60
 ccataccttc ctacaatcac ctgctgttaa cagcagacgc ggatggcaag atgcactgga 120
 tatcatccct gagaatcttc ggctgacgt attccgtctt gatcgcgagg tggccggcga 180
 cctcccagag ctcgatgatt cgagtgcgt gaacgggtcta tgtgagttac catatagcag 240
 ggtcggggcg gatttcgcgg gttgggttta acaagtctac agctgactgt gtcaaagtta 300
 tcattcagcc ggttgtcctt cacggcaggg aatgattcaa gaaaacttcg atgactttac 360
 ggaagggaaa cagcgttagg actttaatat cgggtgtcgtg ggataatcaa gtcgtgaagc 420
 ctttttagtc tagcacaggc aggacagata atcactattg cctgcaatat ctgcatatac 480
 atagtttcta tcaacttctat catacgtctt accgcgactc gtagtactcg gtgttcatcc 540
 cccgttctat ggcagcaatc tgtaacgcga ggatgccaga gaactgtctc gaccatataa 600
 agctgccggt catgtaccag aatccccgta caccagtcgg tttccatacc tacaagcaac 660
 gttagccggc tgcaaccata agatttataa gagtttaatc aataaaacgc accccaatcc 720
 gttcctgggt gttgtgtaag gtgcatattc ttgccacctt gttcataaca tcctcgccca 780
 tgaggcggtc aatcagttta gtactgagct caaaaccagt cgccagtata acaacctcag 840
 attcgatctt ggtgccattg gccaaagatta ccccgctctc gtagtaccac tggacgcctt 900
 gtcacattg cgggaccttg atcctcccgat cgatgatcat ctggcatgca ccctggtcag 960
 cgtagaaatg tccgcccttg atgagctgat aatctaaaag gctgtctcca tccccctct 1020
 taactgccat tccggctttt tccagggcat ctaacatgtc tttgtctttt gccgacatca 1080
 tctgcgactc tccgacacta agagtccggg caacggctat tggcagtgag tggctcaaaa 1140
 gatccgcata ctcaaggctt acccccggag tgttccacag cggttaattga atcctctcca 1200
 tcgaatcccg agatacaaca tacatggcgc ctcggtgcac catcggtaca ttctccgccc 1260
 catggttgac gaaatcctga gcaatatcat gcgcactcgt tccagacca atgattgtga 1320
 tcttcttctt cagggcctcc ggcatcagcg ccgccgattt atgcgcogag gtgtgcagga 1380
 tctggccttt aatgaagcc tcccagga acgtggggcg attcgggatt gcgcccagca 1440

accctgtagc aagcacgaca tgcttagcat gaacagtctg tatacagtcc ttgctttgga 1500
 ggtecgactgt ccacacccgt gacgtctcat tgtaacgaaa attacttgca aggggtgctgt 1560
 gcctgacgtt gaggcccatg atctcttcat agtgctccat ccattttgta acatgggccc 1620
 ggtcaagata tcgcggccag ctggctgggt acttcaggaa tggatagtgg tccgtataga 1680
 tgggagtatg taatcttacg gtgtcatatc tggctcgcca cgagtcccca ggacgcgaaa 1740
 atttgtccac gaccagatag ttgaggccta ggttttgcaa atgcgcggca agtgcgagtc 1800
 cacactgacc tgtgaggggt gttagtgtt tgcttcgac ccacttgaaa ttggtttcaa 1860
 atggctcacc tgcaccaaca accaaaacct gcaggccacc gtcacgtgtt tggacgctgg 1920
 acggctcagt tccataacca gaagcaccag cctgcgcttc cgctttctct gccctcgttg 1980
 cttccagctc atcttggccg tttaaccgct ccagcacagt aaacaccgtc caagccttcc 2040
 actcctcggg ttccacatta gccaatctca gaacgcccct cccggtacca aaagtatttc 2100
 tgaagctgaa cccagcctgg acgaactgca acccaccgat ctccacaagt tgcggctgca 2160
 atgcgcgggg ctgatccgtt ttgggtcttg caaatccact cgtcgaaccg gctagggtact 2220
 cacatatagc cgctgcgcca ttatgggatg cgaaatccca cgagaaagag acgaaatctc 2280
 gaaaccacga ctctttttcg aggaagagggc ttgagatgtt gctttgctgg ccgctggaca 2340
 atttctctgt aaaggaaaac agccaatcgt tgacgatctt ggccacgtcg aggtggctcg 2400
 cattcacgga tgggtggagc gttagtgtcg ggagcaccgc caatggcgga aatataatag 2460
 gcatgataag ggaggagtaa tgaagaacga aagaatgtag ctgacgatta ggaagaaaaa 2520
 acaaacattt ctcttcagtc atatttccag aggatgaatg gcttttatac ctcaacagct 2580
 cgaagatgag tagcgttatc gtgaatagtc ctagagaacc ctaagtcgct aggggtggcgg 2640
 tagatacgga acaattgaac ccacttgagt attcgtccta ggggtggttca gatgcggact 2700
 gagcccgaca attcgtctta accagggata gttttactcg tgt 2743

<210> 1961
 <211> 3337
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1961

gccaccatca acgccggaga actgcggacg ggtaagcgta gcctgcgccc actaaattta 60

ctatgagaag aagctctact tgaccctgag tggagagcta cctgcataca acagtttgca 120
agattttgtgg gatatcgctg atcagctttt cactgctttg gaagaactta tatatcgcat 180
gcctttttggg ctccgatata ttgctaaaga gatgtacgag agcctttctgt ctagattttg 240
caaccaagac ccgagtttta tactccaaac aggtggccat tgggttttga agaattattt 300
ccagccccgc ataatggagc cagagaagta tgggtgtgtc gaccggggat tgacgcagga 360
gcagaagcga aatctgtcgg agatagccaa agtcattgct caagcggctt ccggaaggct 420
attcgggtgca gagaatgtat acctccagcc cctaaatacc tacattgcgg attcgattca 480
gaggcttggg aatatttggg gagactgtaa gtgcgacctg aagataattt gcagaagatt 540
tttgaaatgg cactaatcaa aggcaacagt gatctccgtc caagacgccg aaacatactt 600
tgacattgat gaattcaacg atctctacgc caagaccaag ccgacattat atattaagat 660
gtctgatatc ttctccatcc accagctcgt ggcttccaat attcatttca tctgctccaa 720
tccagacgac attctaaaag aggtggttcg cgacttgggc aatgtcaagt ccaatgagaa 780
tgagctgatg agcgtcaatt ctcccgagat caatctgaca ctgaacccga aactcgccca 840
agctgaaggt aggaagcaat tacttctatt atctctggcg tacatactaa gataactcga 900
tcagatcctg aagcggatat caaggctcta ttcatggaga ccaagagatg cgttctgtac 960
atcatccgcg tacagtcggg cgctaacttg ctggaaatca tggttacacc acccactgaa 1020
gaggacgaag aaaagtggat gacgttcgta cgtgatgagt taagtgtcga caatacgcaa 1080
cgaagcgcac actctgaagc gaatagtctt gtagacattg cctctatgag ctattctgaa 1140
ctcaaacgaa cggcttttga aaacatcttg caacttgaac gagcaggaaa gatccatcgc 1200
agcaatcact accaagatct tctcaatgca attgcgattg acatacggac caagcaccgc 1260
cggaggatcc aacgtcagcg agaactggaa agtgctcata tgacactcac acgtcttaac 1320
gaacaagctg tctggttaga ccagcagctc aagacgtata acgattacat cgagcaggcg 1380
atggtgacat tgcaaagcaa gaagggcaag aagaaattcc ttatgccctt cacgaaacaa 1440
tgggaccacc agcgcgagct tcagaaatcc ggcaagggtg tcaagttcgg gtcatacaag 1500
tattcagccc gaaacctggc ggacaaaggc gtcttagttt actggaaggg ttatacagag 1560
cgacaatggg accgagtgga tctgaccatc tcgagtaacg aagttggcgt cttaccctc 1620
gatggaagca gtgggccgat gatggttcct ggggccaatg cccaggttcc cttggatgac 1680

ctcttgcaag ctcaattcaa caacatgcaa ttcctcgact tctttgacgg acatctgcga 1740
 gtgaacgtca atcttttcct gcattctgatt atgagaaagt tctacaacga ataattattca 1800
 cagatgctcg agttgtttct cctgggaggt ctttgtccta tacgtatgat gactatttgt 1860
 ttctgctttc ctttttttat gatatcccc tttgccttca tgacatgtac agacagcaaa 1920
 agcacctata tccaacgagc tctcactccg agtacctact ttgttatttt tgctgttttc 1980
 catgggtttt gtttagcgatg attccctccg atttcatttc tgcattgctgg tcataaagtt 2040
 ggtgctgcac gactgcctac acttttacct tctatgtgat gatatggacg aaacgatgta 2100
 tttatgagtg tacgtatcga ctaaagtact tctcatgagt tccagagtct tcctaattgga 2160
 ctttaagtgc aacgtcttat atgactgagt tgttgccgag agtcaggggt gacacgtgac 2220
 gttgtcttcg ggcccgacgg gggtgaccag ctggaacctg attctctcct tcatggcgcc 2280
 cccggctctg aattaccgat cgttctttgg gctagctttc tctcatcgaa ttgattgtat 2340
 gcgcaattag cctcttttat ccgcgcacca tggatttcga ttcctcaag aaccaagtca 2400
 gtaacctgac tctttatgat ctcaaggcgg gagtgcgcaa ggtccaaaat ggtaagccag 2460
 gctctcagag cctcacgtca cttcagact tggaaaatat atgctaactc tcttcgtgac 2520
 aagccgtcat gaattacact gagatggagg ccaagggttcg tcgtattcct gactgtatcc 2580
 atccgcgatg tcggcatcgc tccgcgcctt gaagaagggg ggggggtactg ttatgatatc 2640
 agtcacttac accttcagg tccgagaagc tacaacaat gagccttggg gtgcctcaac 2700
 aacattaatg caggagattg cactggaac tcatcactag tgagttatta taaacattgc 2760
 gtgatttgat ggtagcgtaa cggattcatg gaattattgc tgatctatat cgctttgcgg 2820
 ttaaacagtc aattactcaa tgagatcatg cccatgattt acaagcgatt tacggacaag 2880
 acatcggaag aatggcgaca gatctataag gttagagatga ttcaatattt attctttgga 2940
 aggtcgctga ctgtgccttg cgaaaattca ggcctccaa ctactcgaat ttctcatcaa 3000
 gaacgggtcc gaacgtgttg ttgacgatgc ccgatcgac ctgtccctca ttcgtatgct 3060
 tcgccaattc cactacatcg atcccaatgg gaaggaccaa ggaatcaacg tccgcaatcg 3120
 agcgcaggaa ttagtgaagc ttctgggcca tgttgagctg atccgcgctg agaggaagaa 3180
 ggctagggcc aaccgtaaca aatttcgcgg ttctgagggt ggatcgggca tgggaggtgg 3240
 aattgggagt tctggaggag gtcgctatgg aggttttggc agcgatagtc tctctttttg 3300

cggtataat ggggtggtc tacgggggac cgcgggc

3337

<210> 1962
<211> 1544
<212> DNA
<213> *Aspergillus nidulans*

<400> 1962

ttttatggac attgccttca atcggcgact gaggcagcgg acggcgactg gtcccccttt 60
agcaccgatc tactgtttgg ccagccaacg cctcaaattc tgtctgatac aacaggatct 120
actacgacgt cattgatgta tacagtcatt gaagactgga atagggtgagg gacgaattga 180
ccagtgttgg tcttgggtgg cgtacggcca gtagggctaa cccctctgtg ctgccgtggc 240
ggacggcagt gataacagcg tcgatgctct tctctgggaa gatgtcgact tgagcatata 300
gctgcagctg cacatgatgt ttctagagta gaatatgtat atggccctgg ttcttgggtct 360
gcagtaaagc ctagtccggc actcaccacc ggtcactcta acgtggaatc gccgattccc 420
cggttacgag aaaggcctat ttatatcccg aaacagccca tttaattcca atcgtctcta 480
gattcataaa tcttgaaata gactacaggg cacaatgctt ttcgctcgtg ctacacggcg 540
ctccatcttt ctaccatcgg ccagggttggc cgtcagtcga catgcatcta cggcatcacc 600
atcaccatca ttatgccat cacaatggcc cgtgaactct gctgcccaca gtcataagat 660
cgtggtggtg ggcgcgggga ccgccggtt gaccatcagt caccagttac tacgatctaa 720
acgattctcc caggacgaga tcgccgtgat agaccctga gcctggcacc actatcaacc 780
cggttggaca ttagtcgggg gaggtctcaa agcaaaagac agactgcggc gtccactgca 840
ggatctgac agcccgcgct tgaagtttta tcgccatata gtaaacacgt ttgcccctga 900
cagcaacatg atcatgcttg acgatggctg tcggatcgca tacgaacatc ttgtggttgt 960
tccgggcac gagatcgatt atggaagcat cagaggcctt cccagggctc tggaaaaccc 1020
ctctgcaccc gtctcatcta tttatgggta tgagttctgc gacaaggcat tcaagacgat 1080
cgagaacctc aaaaaaggca cggccatttt caccacccc acaggcatcg tcaaatgcgc 1140
cggcgctcct caaaagatca tgtggctggc actagaccac tggcaaaaaa caggccggta 1200
tacctacaga ccaggcaccg gcgccgcaac agcggcagta gaagaggatt cgccaatcaa 1260
gatcaaattc gcaactggtc tggcaagtct attcggcgtg cccaagtaca gtgctgtgct 1320

ggagcagctg cgctgccaga gaggcgtcga gggctccttc cagcacgacc tcgttgctat 1380
 tgagggtaac caagccgtct tcaatgttgc ccttcacat ccagagggag atgcaggtag 1440
 gaacggaaac gggagtggga gcgggacagt tgcggcctcg acgacggga aggtacagat 1500
 tgacctgctg catgtcgtgc ccaagatggg gccgtacgcc tttta 1544

<210> 1963
 <211> 2612
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1963

caagatcttc tgcattccact tcagtgtctt caaacctttc tgaaaccctt cttgactttg 60
 tctgtttaaa cgcaacgcac gtaatatgtc ttgaatggct gatttcgaag cgcacatccg 120
 agtcgaatgt gctccacaag ctacagatgc cggacttcct acccacagcc aaaatgcttc 180
 taccgccatt ctccggacgag aatgacagag atgtcacata attcgagggg tcatgttccc 240
 cgagtggcgg atgtgcacg ccgaaagcct cagaccatag gtaaacgcgg tgccctaadc 300
 caactgcaag agtcccagcg atgtcggagt atgccaacgt cgaacagtag aagtcgtcac 360
 gcaggagagg agcatccaga gttcgaaagg gaagactcgg aactatagtg tttttatcct 420
 ttttcgaact ggggtcccct tttgtttcag tttatgtcag ctcttccat tctgtgtgtg 480
 aaggagatgg agaaatcaat gcgagaaata cattgacagc agtcttacgc tatacagaag 540
 tcatgtgtgt ttatgggttt gaaatacatg aaagttaaga gaaggaagtc gacgaagggc 600
 cattctgctg cctgagattg ctcatatgcc gaaagaagag gacaaagatg gaaagtgagt 660
 atggatgaga ccgcttgtct tcctactcgg aagaaaagaa atttgagact tacattgacc 720
 gcgctctacc ctctccaag cattgtcttt ccataccagt ggtgagagtc gatcgaacgc 780
 tggagatgat gggcttggtg gagggtcaga tatcgacatg agcttggagt tgctgaggac 840
 tttcgaatga gtatcaatct ccagtgcagg agcaatccta gactcatatg tcaagcggtc 900
 ctctgttgaa gagegagtct gtggcagaaa cttggctgta tacatgggag ctgtggttcc 960
 actagcaaat atgtccttac ggccatctgg agagacgggt gaccgtctac ctgagcagc 1020
 tgatgttcca ccaacgggtc aaattgcccc gttgctaact cgtctcgtcc catctctggt 1080
 cccagttgag actgatcttc cggatacagt tgagtcaccc acaagatgag gtccaaagtg 1140

tgggctaaag acacggccgg gtctttagc actctttgtt ctcgaattt tctttggtgt 1200
 gaaaggggtcc tctcctggtg agcggcgccg gaagagcttt tctcgggtg acagatcttg 1260
 ggggtccttt ccaaccctat atggggtaga tggggcgta atcggctctc gcaatgggac 1320
 aaacctgtcc ggtgaagctg aagcttttat atcgctccgc acagctgcga tccgtcggcc 1380
 gcctctcacc ttccctcggc cagatcagg gcaaccctgt agcttgaaga tgtctggctg 1440
 aagcgttgat gggccaatta agtagtcgaa gtattccagt cttatatccc tcgaggcggc 1500
 agttgagcca ggcgatattg ttgaatcgtg ctctgtagaa tccgacatca gggctagaaa 1560
 tggccggtga tgagaacggt caatggtgta tcaaatatgt tgagttcaac gcattgtaga 1620
 tgcgatcatt gtcaaacca cgttggtagt cccagcgaat ggcaggccca actggaaaca 1680
 ataagtgcgg aatcagttgg aggctgtggt tatgtacttg aagtcaacaa tatatccaaa 1740
 tgaacggacc ggggttggtaa gctgaataga gtctctgcc gccggatata agactaccag 1800
 attacggaca ccacgggact cttattcgct gctaagagtt ggaatgatgg aacagaaaag 1860
 ggacgacgtg aagctatggt gagtggcagc tgcttgatt gacagacaac acgtgactcg 1920
 cttgatcggg aagctgccta ctcagcccag gtgaggtctc gagcttgctc taccactctt 1980
 ctcaccgaca cttccgaca ccgctcgggt caagtaccat ttataggagt ggaagagcgt 2040
 gatttggtgc acaggcaaga tagtagcccg tgtttaatat ggctagtgtg attgtccctt 2100
 tcatggatag acttggccat ggtaacggt cgttcgacag catggcattc cccgtcacag 2160
 ctcacttgaa gcgactggtg aaaccgcga gcaggagctc cgcaaatcg agacatatcg 2220
 ccaactggaa tatgtcgttc gcgaggaggt agattgtgaa agactttgtt gcttgggata 2280
 gatgcagccc ggctaataa gcggagtaga tcatgaatcg caaatacacg ccggagacat 2340
 tacagaagtt atctgaattg ctcaaaaaga atcccagta ctataccatg tggaattacc 2400
 gccgccgagt gcttctgcat ggttttcac aggcagttcc cgagcttcca tcggagaccg 2460
 atatcgaacg catcacgacc ctaatccaaa cggatttgca gtttctgac ccccttctcc 2520
 gtagctttcc caaatgctat tgaatttga actatcgact gtggcttctt gacgaagcca 2580
 agcgtcttct tcccaaggcc atcgcccgta ac 2612

<210> 1964
 <211> 4587

<212> DNA
<213> *Aspergillus nidulans*
<400> 1964

taggttaaag ctgacacctc ccacatgata gtcgccgcga ggatgggggg gattttccga 60
cgtggcaggt ggtaaaacag cgcttcgtaa aacagacagg tcgatatctt cgaaaaccct 120
agggaacaa tgaagaggag atcgggcgca taccggcct tgaatcccaa tatcttcatt 180
tagaaaggca tagcagacgg gtaaggaacg gtacgtacct tgagcatccg agcctggcca 240
gtcgcagagc tagggccggt gcgtgtcccc caccataat gaacttgagc taacacgacc 300
gaagcctggg tgaacgctat agcctgtcgc ttatcagacc caaaaccca atcgtatatt 360
tatcggcgcg acaatagggg gaccggctag gtaaaccac cagagcccg gcgaaaacat 420
agtcgtccgc ctgtacgatt cgtttgcat gcagcgaaaa caccctcgcc aagacacttg 480
ccagagtcag cacaatataa aatgaagcga ggacgacgac cagcccgcta tggtcgttct 540
tattatccgc tgtaagcggg gccctcacac cggggggaaa cgtggaggtc gacatgacat 600
ggagagctag taaacaagag aacaggacaa gacggcgatc attggggctg gtcaaggttt 660
taacaagcaa gacagaacat gcaagactgg ctttgctttt tacgctgtgc gcctgccatg 720
gcagcagcga ggaggtgcgg ctgtgactgt gagggaccgc aacagcgggc cccaacgata 780
gactcagtcg aatcagaacg agctcttttt attgcgaatc agcgatgtcg agtcctcgtg 840
gcaatgtttt aaaaggggct ccggaccgct gaccacgagc tgaaggaatt cggttgccaa 900
aaagaccggg ccggttgac gcgcattcca ttacttgccg aacgtggacg gggaatgtgg 960
ccactggcat tgcattggtg agcgactggt cgtacaggaa atgcagcaag ggagggtttc 1020
tgtgcagaca acaatgacct cgtcgagctt ctatgcagat ctctattata ctccggagaa 1080
agcacaagga gctcgggtcc cttgttgaac tgccagcggc ctcgagcagg actcgaagaa 1140
tgggtgggctt tgctagcgct ctcgagatgc taaccctaga aaaggctcga gccatcccca 1200
gctcggccaa ctgtattcga cacaatgcga taccatcctt agatcgtctc aattgacggg 1260
accacaaaga aatccagcag cactaatgc atctaagccc aggttgtagc acacaagcac 1320
acttggcggg agattccata gccaatata aggagaggcc gtctcctcgc ccggccgagc 1380
ctattcaata gactcaaaag tccaaacggc cgagcccgcc tcattctcgc tttgttgatc 1440
tcgccaaagc ttacacgtg gagcagagcg ttgatcgca ttcggggcat ttaacgtgg 1500

aagacacgct ttctcccttt catggaaccc cttgcgtccc agcctcaact gctgaccctg 1560
acttccgtct cgtttcacc ctcctccctcc cttcagttga attttctgtt tttctatttt 1620
cctatTTTTT ttttttattg cgtctcctcc cctgctagct tgataggaag tcatagagcg 1680
tgataaacat tgttatcatg gaggtgcaca ctaaaccgcc cgggctcggg acgatggacg 1740
tcgaggtcca ttcgccagca ggtagccatg agggagggag acaggcagga acggtgcttg 1800
atgataccga tatgcatcgc atgggaaagg tccaggaact gaaggtgtgt ttggttgacc 1860
gacctgaccg tcaattcgat tccaaccctc acagtcttga atatgacagc gaaatctgcg 1920
ccctgtcgcc gactcagtt ttgcgtcggc cttacaggcg acctgggagt ttgttttgat 1980
gtgccactct cctctatttt tcgcaccgaa acaaggctaa tccactctgc ggcttagctc 2040
gaacactgaa gggtcgaga acggaggact ggccgggatg tgctggtcga tgatctggac 2100
atgtgtgggc tttggattca ttattgcctc gctgtcggag atggcttcga tgtaggcacg 2160
tacctgacgc ttgtttgaac ctttactcac ttcaataggg caccgacatc cggcggacag 2220
taccactggg tctccgagtt cgcctgcctg cgataccaga aattcctcag ctaccttaca 2280
ggtacctggc ttctgccatc tttttccca attatgcagt cccagttcca actgaccatg 2340
ccgcccaacc aggetggatg tccgtcctcg cctggcaagc cggttctgca tcgggctcct 2400
tcttcacggg tacgatcatc cagggcctga tcacgatccg caatccggac tacagccctg 2460
aaagctggca cggaaacgctg ttcgtatttg caatgatctt tgtcatctac gtcttcaatg 2520
tctacgcctc tgacgccatg cccgtgctta ataacctcct catgatattc cacgtgctat 2580
cgtggtgctg tatactcatc gtgctctggg ccatggcgcc ccatcggacc gccaaagtcag 2640
tgttcacaga atggtcaacc caggaggtt ggaacagtat aggactgagt gtcgatgatc 2700
ggcagatcag tgctatctac ggctcactga gtaaaacccc tcgccaatcc ccttgtcgtg 2760
gctgagtata ctgatagtga tgagcacagg ttccgacgca acagcccaca tgtctgaaga 2820
agtcagcaat gccggcgca atgtccctct cgccatagcc tggggctact tcaccaatgg 2880
catcatggcc atcgtcctgc tgatagcata tctcttttca atccctctg tcgaggacgc 2940
actttctgac gaaacggggg tcccgtttct ttatgtattc agaaatgccg tctccacggc 3000
gggctcaat gggtgacat cgatcatctt gatcccggtg atcttcagca acatcttctt 3060
caacgcctcg acgtcccgtc agacctttgc tttcgcgcga gacaggggtc tccattcgc 3120

agactggatt gcgcacgttg ataagcggcg caagatcccc gtgaatgcga ttttcctctc 3180
 ctgtcttata agctgcttat tatcgcttat caatattggc tctgaaacgg cgttcaacgc 3240
 cattatctcg ctcaatgtcg cggccttgat gtacagctac atcatctcga tcagctgcgt 3300
 catctacagg aagctaaaaat gccccgagac cctgccggct cgacgatggg atatgggctc 3360
 ttggggggtta ccgggtcaaca taatcggact ggtctattcg tgttttgccg tcttctggag 3420
 tctctggcct ggtcagaagc atgtcacggc cgagacctc aactggagtg ttgtgatatt 3480
 cggcgggtgtt ttcgtcatta gtctggtctt gtatgtgctt aaggggagga gggaatatac 3540
 ggggccgggtt gttattgtgc agaggggtccg tgttgactaa acaaccggat aaggatatat 3600
 caagtgcgac gcaacgagcc tttcaaatec aatgagcttg agaggggaac ggacgcaacc 3660
 gcatcaatac agtggtcatt tacaacaac cggcaatcgg aaccatttca gcctgctggc 3720
 aatggtaaga cacaacccat aacgtctggt tatggaggtg tctttcgaaa aagtccgatg 3780
 aatttgccc ccgattagct tgttctgtcc aggaaacacc ttctcggcag tattcataaa 3840
 gggtgttttt ggcgtttagt ataatacatta aaaccaagat atatagttct acatctaaat 3900
 cgcacagaat caaggggtgt atatcagagt tactcagcaa tgaggcaggt aggagtgtgt 3960
 tcttgcgctt gggatatctg agccatactg cgcagctcgg cctcaccac gtatctaggc 4020
 agccaggaaa ctttcggaat cgccttgat cagaaatgac cgtatcaatc tctctgttcc 4080
 ttaatactgg ctgcaccttg ttgtgtctga acagccctca gagccgtagc cttgaagagc 4140
 tacgttcatt atctatggc ggctacgcca gatcattctg tcccaatcca gcaatcggac 4200
 cctggatgtc agggcataat caggagcgtg gactgaatag atagatttaa acaggtgatt 4260
 ctactccctg gtttgctttg ttctgctctc aagctggtac tctgcttccc gcatgcccgg 4320
 ttcgttcgga atctgctcaa agacaaggat gaagctgtct acttatctgc atagttcagc 4380
 cggatgtggc ctcaattgcc cttctgagaa atacaaggtc aaggctctag catttcatta 4440
 gtttttgaag attcgattga gttaccctc cataatatac tcaggatgtc aacttcattg 4500
 ttggctactt ggccagctta attttctctt aaatttgtca cttaacatgt tctggacagg 4560
 ctgttggtgc accagcagtg tgtacat 4587

<210> 1965
 <211> 3879

<212> DNA
<213> *Aspergillus nidulans*
<400> 1965

ccggtccgaa gagccgttgc gatttaacgcc cattcacatg aaaacgcgta ctcatccaac 60
tcgccctgcg agatgagagt tgtgcaaaag caatctacgt tgagggcccg ctttagcattt 120
tgtccagagt ataacattaa tgcgcgactg taacttacct taacgagtag acctcccaca 180
acagctgcga aaatcatcca tgaaaccccc ctttgcgaa ctctccaagg ctctatacaa 240
gcccgtcgat atcccatttg cagctcacag gcgttatcat cgtgcgcccc gtccttgaac 300
ggccatgcac gatcatgaat actccttaac ccgcagcact gaaagcggtc ctggattgtg 360
cggatcgcat ttgcgttctt ttgctggtaa aaggactgcc atcgactttc gaggtgacag 420
gggagtatct gggaggggaa aagataggaa agtgccagtg tgccaagtgt cgtgaggagg 480
attgtgtgga tctgggatga gaggggtaga atcaacctag caatattggg attggattcg 540
ttgttgaaga cgattcggaa gttggcaagg acaaggaggg cgacgggagt gaggaagggt 600
gttgtgatgg ggatccaggt tgggagtgga aggtagaggc ctgtgggttc ggcccaagag 660
atactggctg agggtcagtt taacaagatt ctatcttgtg atcaagtgtg atcattaggg 720
tgggcaagct cgtacgctcc gaagagaagg gaagtgaccg aaagcctatt gaagaagtgg 780
ttaattacag aattggacag ttgaatgata gctgacttgc cacaagaagt aatgcgtaaa 840
gagccaatga tgaatcgac ttgaaaggca ttcttaacag ctagtttgga tgtgaagagc 900
cgaaactgat ggacggtgag gaagagaaga agatagacgg ttgtttgttt gttggaagaa 960
ggcgggggtat ataaacacgc atatggtagc ctggcttcgc aatcagtctc agtcactggt 1020
cctgctgacc tatcacactc aatgccctta tagcactgga gataagtatt cttaggaatc 1080
taccaagttc taacaacttc atctgtttgc gatagaaagc gtgcaggat ctagtctggg 1140
cctatgcaaa gacggctgaa gatgtaatct tggtaaaaca gctggcgctc ctgcttgagt 1200
tcaatattga gaagtctgta tctcactttt accttggagt tcatgttgga tgactgtttc 1260
agtctgaatt gaccattcgg catggcagct atgcctttca tctgacctat aaaaagggtg 1320
atagttcttc taagagtttt gcgttattgc agtctctcta ggctttactg atactacagc 1380
agattctatt ctctttgcc aagatgcggg aatgataaat atccaactag agtccatctg 1440
ccaacggaat acccttcacc ctctgattgt tactgcgctt tgttggttgc gcgaattatg 1500

ctctaactcg ccagacattt ttggatgggc tggccgagtt tacgatggtc ttcagatagc 1560
 atccgcttag gttcatctat gttctaaaat tctccgagct caggcatgct ctttcattct 1620
 ttgtgaaatc attatgattg cgtctgctca aaattaatgg agttaagaaa ctggaagggc 1680
 attcagtttc aataattgag ccgcatttct ccagcgaatg cctccaacac ctcttcagtc 1740
 accatcccg c tctcctccag ctcttccaac cacttcaacc catcggcact ctttgcaa at 1800
 ggatagtcca cgctatacat gattctatca tgttttgtat tacgcaatat acaagccagc 1860
 ggatccaacg cccaattgcc actcgctgctc aaccacaggt tctgatccca gacttccctg 1920
 aacgatctct cctttcccca ccgcatgac acccgctcta tcctctgaag catgtagggg 1980
 accatctcac ccatatgccg gataataatt ttcaacttgg gaaaccggtc gaagaccctc 2040
 gctgcataca gacgcaatat atgaatcgcc acgtcgccgt gccagccgaa tccaaatgag 2100
 aggatagctg tattcacgtc ctcggaatg ttggaggaac ggtacgctgt gaaaagttgc 2160
 tgggagggcc aagtcgaatg aatatatata ggcacgtcca gcttcgctgc ctcatcccaa 2220
 agcacgtcga actccggccc gtcatagtat agtcgcctt ctgtatgact gtccacgagc 2280
 gccccgacaa agcgtatccc gtcaagcgt cctgagcaca tacgacggag ttccattgct 2340
 gcctcctgag gttcatgcat tggcagctcg gcgaaccag cgaatcttgt tggacaagca 2400
 cgtatggctt cggcaagctg gttgttggtc tctcggcatt gggcgggaga caggtcaccc 2460
 ggaccgtggg atattacttg catggtgact tgcccgtggc ccatgtccgc aatgcgccta 2520
 ggtccaagct cgggtgaaatt gtcgaagagc ccagggatgg ctgcattct ctcgttgagc 2580
 gcatttggag atgcgagggc ggcgcgcgag aggaaatggt cctcgagggc gatgatcggt 2640
 cttgcgatca atttggttat tgagtgaggt ggcattgacgt agtaggcgtt atttttcggt 2700
 ttttttcaac attctatgat gaggaccagt ggaagagttg gtgttttata ctgattgata 2760
 aatattccac agctccggac actaccgctg ctaactccgc caagctccgt catgatgcta 2820
 tatccgttac ccccggttgt tgtgtaggca ccagccaaat agatagctta acgattgttg 2880
 tggatgtatc gctagatata gatcttctcc ggaacactgt caggccaagc atggatcaga 2940
 ttgaaagaac aatatagcgg attttgtgtg ccagattcag gccaatttat ccaagccaca 3000
 ttgagcgtga gcaagatgtc aaattgactg gcaagtaagt tattgccata caatatatcc 3060
 ataacttctc caggccactg cccgaacgag tttaaagtcc ttcgccaata ctgttagtct 3120

tgcggcatgc catacacaac gagtacaagg cttaccatga acagagtggg aaaatatgac 3180
 tgaatgagtg ctatgaagaa agttgtatat atcgtttccc tcatgactgt ataaacatta 3240
 caactacagc ttgaaacccc ttctcgcttc taggtgcatt ggggggtgta gcacgggact 3300
 atcgatccta aataatgggt cgcttaaagc ttctgtgcaa caagtattcc aaaacttata 3360
 ctggattttt gtcctctgac tcgcaagcca cgctacgatt acagtccaag tgacaagaga 3420
 gccctcccaa tggcaagaag ctgctctggg tgttttaatc tcaacttctg cgaggcatgc 3480
 caccttgagc gtgtgtcag aaaacaaagc aaagttctcg aaatgtaagc tctattgtgt 3540
 tgagcatcct taatctcaga aggacacata tatcaactaa atggaggaca cacaagacct 3600
 gctcgagact cgccgagcag tccggaaatt caagccctaa ctaactcacg tgactatggg 3660
 ggcttcggcc tccccgaccg cttacgtagc tcttggcacg atcatggggg gatccgatcg 3720
 tcattccgcc tgagcgccct gcttccggca cacgaaggcg accacaccat cacaaaagga 3780
 ccatccagag tcctgttatt ctttctcta tccccttctg ttatctctat aacttcctac 3840
 atcttcttgt gttgaatgta catccaataa tagcgcttc 3879

<210> 1966
 <211> 4222
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1966

gcactaagac agcgctcgtg taccagttg gcgtataagc ggatccgttc gctgacgttg 60
 cggttgccgc agtgagcga gtaacggggt ttaggcttag aggtgggtgcc ggaaattgcc 120
 aggagtttga gccgtattct tcaaccggtt ttggaagagc cggactgtac tggagacgac 180
 gggtagcgcg ggacctgaaa acttgttgta caggctttag atagaccgtt gcgaggggttc 240
 cgacgttgag gcagagttcc tcgaggggtgc ggtgtcgag tttctcgctc acagcggaga 300
 tgggtgggtt ctggcccatg acgacttgac gggcggttgt tgggtcagat gaaagaagac 360
 gccagtacat gtatcctctg tcacggagat ccggatcatc tgtttcctct gtacaccatt 420
 ttaggacttg cggaacgagt tgctgggcct tcgttgggcg ctggatgaag agcttgacag 480
 ttgctgtaag aaggagagtg tgcaacttcaa ttgtctcgtc gtggaatgta gcgagatagt 540
 cttgcaagag gtcggctgag ttctcgatgc ggtctgcgta ctggccaatg atccagatta 600

cggccgcctt ggctttctggt tcgtccaggt catcgatggt ttggatgact tggccgatga 660
 tgcttttcgta ctgggttgggg tatttgcgga agatattacg gatgacgacg gttgcctctt 720
 gcacgatata cggaatcttg gcgtttacca agtccaggag acaatcgata cactgttttg 780
 cagcggactc gatcttgatg gccagtttcc caatcgcccg gactgccttg cgcacaaagt 840
 ggacatcgat ctgagttgag tacctaatta aattagcagt gctctttgca aaaacacaga 900
 agctgcttac tctctcagtt ctgccagcac aactgagatg ttctccttag tgggtcaacat 960
 gaatatcaac tcgagcttgg tcacctgac gtagattggg tcattgtaat tgcagaagaa 1020
 gaccggaatg tcgttacgca gaacttcggg ccgcttctgc aggataagaa tggcattgag 1080
 gaggacaaga tattgcacct ctggcggttt ggacagaagc gtcacgagag gtggtgataa 1140
 tttctttgag agtgatgtga gatgccgttc ttccggcgata tagttcataa ggtagaggat 1200
 gacgcggatg gaagtgagga caacggcgga gttctgatga gagagtcgag gagcgatacg 1260
 ttccgccaaa aggaggggctt ctgcggaatc ttgtggaaca taggacatta gggcttccag 1320
 tatataggat tgaccccatc tgcgcaatgt tagacacgaa cagaacttca gttggtatat 1380
 ccgtactctg aacagtcctg taagattgat accagtttag acgcgcttgc gtaatcaatc 1440
 gtcaaagata ttgtttcgct tcgtcccag atatccacta atgaagccag gacgcttgaa 1500
 acaaccgttg ggttttcatc cttcagcatc gcattcagcc ggtcaatcaa atcggatgcc 1560
 tccaccatct tcctatcatg ctgtagagt ttggctacgc aaaaagcggc cgtcttgcca 1620
 acatagggat ccatatctcc catcagcctc ttgagcggtt gtacagtggc ctcgacatat 1680
 tctcgaacat ggatatacgc gattgttcca agcgccaaag cgcggacaag cgggttcgtc 1740
 gcctccatat cctgcggccg ttagcttata tagttgggca gaaatagcgt cgtacattaa 1800
 ttaatatagg aagagccttt agtgcgatgt caggcttcat ccttgagtag ttgaccagga 1860
 atagaaagca cctgggacag ctgtcaatat cgcgtcacc aaatatcgtc ccagacctac 1920
 atcttcttga tctccaagct cggcaaattc atacagtcga taacatccgg gaacaaggcg 1980
 atcatatcgt tgttgctcat ggtcatgttg gcaacgatct tcttcaacgc aatcttcttg 2040
 gccgaatagt tcttgtcctt cttgcccgcc ctgttgagtt cctgccggag ctcggaact 2100
 ttgccctgtg aagtgcgaac ccatggtggt aagctagatt gtacataagg cgcaataaac 2160
 atggggacag tagcaagtaa gtgctgggtt ggagatgcaa aacataaagt acagatgcag 2220

cattagaaag aggagcaaag aggggtatca agaccaagga aagagcacag ttaattcgcg 2280
gacaaagtca tgagacgagc ttcataaagg ggggtagcga taaactatcg cgcaactgga 2340
agggccaatg cgatagagat atagtttttt tttccacata ccctagcgaa cagctttgca 2400
tctccccac tcgaactcat ggcggattat atagcttcac ggcagcgaat cggacaggtc 2460
tcttcgtttc ttgaaggata cgggtttccc agtatggttc gcgcggcttc ttaggtcgtc 2520
gtatcacata agaattgctg agacaaggag gaattcaaaa tagcgaatag cttcgacggc 2580
gggacgactc cttagctggc acgatgcttc gaaacgtcca taccttaggt tatgacggga 2640
tttagactgt cagcccagaa gagtcagcgt ggcacaagcg tagccatag caggcggcaa 2700
actcacctag accgagcgaa tccagcctgg cttcaacta cgagctgaga ttggaatcat 2760
ctggcgtcag agagaatagg agttcgagac tgagaatcag gagtggaccg gcgcggccag 2820
ctccgcggtt tttgtggaga atcctttgct tcctgatttt ccaggcgatg atcaacttcg 2880
acctccgctg tcgtgccgct gagctagcta aagctccctt cgcaaacca ggaccttcaa 2940
ccatctgtaa tattggtctt atcgcaatgg ccaactcagca aactctaccc cctcttcac 3000
cccctaaatg ggtcgtcgat ctcaaatcac cgttaccgcg cccgtcaatt tcagcgtcca 3060
gcatccccga cccgcccggc ttctcgcgca aggctggtaa aggcgtgggt accccaaagc 3120
atcccataca tatatataca tcatgtcata ctaactgtat atatagcgct cggaaaaatc 3180
gaccacttcc tccgccccgt ccaagccgc cgaaaccgac acgctgaagc tcaagaaagc 3240
ttgggaaatc gccctcgcg cgtcgaagca gattcccatg aacgcgatca tgatgtacat 3300
gtccggaaac agtctgcaga tcttcagcat tatgatggtc tttatgttgt tcaagggccc 3360
tatccagggc ctcatcaaca ccaataatgt gtttgccaag tttgattcgg agacattgcg 3420
gggcaagttg ctaggtgtaa aggctgtgta cgtcctgatg cagttcgttc tgctggggct 3480
gggggtgtgg aaggttaatg ctatgggtct tctgccgtat gttctcgta ccttactcct 3540
gctttgtagg aggtccttat gcgctcttct ggcttgctaa tgtgtgatga cagaactacg 3600
agatcggatt ggctggctgg gaatcggagc ggcagcctta gaaagagttc actttgcttt 3660
tggttgaagt tcttatgtga tactgaagtg ggtttatata agagtgattg gtcatactcg 3720
aaaagaaatt tgagcacgca gattgcccta aaactgtgcc ttgggtaaaa tagatcgtat 3780
aatgcacca tagagagaca aggctgctag tctttctttt caagagcttt gcggcaggct 3840

tctgaaaaaa tctggcaaaa ctgccacacc tctctgtacg tgttgtacaa gggcgcggggt 3900
gcaaccctaa tgacatctgg cttcctctcg tcgatcacia ctgcatattc ttccaacgtt 3960
tctaaaacgc tatccaggag acctggagcc agccgcaaac ttagctgagc accgcgttct 4020
gaggggttcg gcggggtaat gatagaaaaa ggcttgtcgg aaactccatc aagagacgca 4080
aggaggagat gctctcttat agcctgtttc attgaggccc ccttgacgaa tctcggccat 4140
ggatgtaagg atgaacagtt ccagagaggg tacaaccgca ttcattgtcaa gcgcggggagg 4200
attggaccat gatacgtagt gc 4222

<210> 1967
<211> 2587
<212> DNA
<213> *Aspergillus nidulans*

<400> 1967
atcactagct tgtgatctaa gcaggcccag gtgtgggact gcactactga gtcgctcagc 60
catcattgtt ttgtttatgc aggcaaagtt catacgccca tagtttgagc tctactcgcc 120
tttcaaatta cacatctacc ccttcggcaa gatgggtgat ctgtttgttt atatgtgttt 180
tggctttatg gctacagagt acttcatcat acgtcatata tctgttcgat acctttatta 240
tctagttgct cgagcggccg gcatgcggct ctttgactat accgtttctc acttgaacag 300
tactgcagtt ccgatggaag gatcgtatct ctatcttcgc ttaggggtgca attcttgagg 360
gcccttatt ttggtattga gcagccccag gcctcgccgg cctgattttc aaagacgaag 420
tcaattcgcc acaggtaggc gtcaatcaag ttctgacaca agagctcggc ttaaactctcg 480
tctgcgcaga atacgggagg ttgaaagt ataggagact ccgtgagaga taactactaca 540
ggtagattca gcaaccgttc atgattatct tcgccgtagg gagtaaacia ccaatacaca 600
ttgactcgaa taactgccat gcaattgagt tcgctatcca gtagcatact aacacaatga 660
attgattgat tgcacatggg tgagaaacia ccccgaccc actaaccgc cgagccagct 720
atgctagctc aataggaggg acagtaacia cctattgtc taacggaaca gcctcccat 780
caaccctccc gcaagattcg aaacaattgt gcctccaaac gcactattcg catatgtcga 840
cgctgggcta aagcggtcac agcgggagaa tgcagtcgta ttcgtgatcg tcagaaccag 900
cgcaatcgct acacggaaca aatcagcacc cttccaacca ccgcgaatcc ggatctgtgt 960

ttgcgtagaa aaggtatacg taccaatcag actcaaccaa atcacactat tcagcctgac 1020
 gatggccaat atgccaagc caatccacag cgccggcgca acgtagagac tcagccagaa 1080
 gaagcgctta tccgttgccg cgatggtgcg tgtgttcggg tctgcggtt caaacaccca 1140
 gtgcgagtca ccggtggtgg tgttgacttc gttccaccag cggaggccga cgaggcgctg 1200
 accagegatg ttcttgaggt agtagaagtc tgcgctgagg aggaggaggg tcaggatgaa 1260
 gacaaggatg ctgcagaagt ggcattgtta gaacgattgc tctggcacgg ctgggctgca 1320
 gggaaagggc aggatgtaca agttgtttat aaaaagcacg ccgaagagat acatcagcaa 1380
 tgctcccagg cggaagccga ggaaagtgag gaggggtgatt gggtagggcg tgagtcgcca 1440
 attcaagtct ccttggtgag gttgcgagtt gagagggtgt tgctccatgg tgacgggtcc 1500
 gggtagaaga gcccgccttag tgacaagata tcagataagg tcgtgtgtca atttcgtgct 1560
 ttttcccggt cgtggcaaca gccgctgccc tcgctatcga gagtgagagg tttgagacga 1620
 tgctgttgcg ttgctgtctt ttacctaggg cggtgagaat cgatggtcgg cagaatagcg 1680
 tgcgcgcgt catggtcgaa gcggcggtcc ataaggactt aaataagtta gaaatatgca 1740
 tctcgctgtg ctgagctgta tcctatgatg aggactccgt ataatgcctg agtttgtgtc 1800
 cggcgtgcc agctttacct caaatgtcga ggcagcgcg taatctcgcg tacatggcg 1860
 gccctagctt ggagaagcct ttatgtctct gttgtctccg ccgcctcatc gccgaggatg 1920
 tcaatctctc caacactcga cattatctta atgcttcttt ctgaccattt gacaggctca 1980
 cttctgaagg caatcaagta atatttacag ggaaaagcca taatggcagc cagaaacacc 2040
 ctccgccgcg ctctctctta cagtacatca cagctctccc cgcatttccc tgtaaaacct 2100
 ggggtttagt taaacacagc taacgcatga ggcacccgca gtccccggct catcgagcg 2160
 ctttatcacc aaatcgcgct ctcttacggc tgattgcgtc gcctacgacc tcgaagacag 2220
 cgtcaccccg cacaagaaag ccaaagcgcg gtcgctggtg cggagagccc tggatgagcc 2280
 cgcaccccc agtatccgcg agcgcgcagt ggcattaac tcggctcgaca gtggactggc 2340
 actggcggtat ctgacggaag ttgtacgtcg ctgcacatgc cgtaagctct cgctgtctag 2400
 ctagatagct aataaactgt gcagctcaag tctccaaatc tctccacaat tgtgatcccg 2460
 aaagttaact ccgctgca cctgaccttc gtcaacgatg taataacaca aacacaagcc 2520
 cagcaagaag cgcagggtcg tgctgtaac gaaatcacc agctcgctct tggcaatgga 2580

<210> 1968
 <211> 2185
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1968

```

agtagctgaa cgatgggtct gaagtcgcct cggatttcca gacgcacaga tcaaaatcca 60
ccggttaggc aaaagtcata atactcatcg aataacaagc acgagaaata atggcaagtg 120
agcaatgacg gcggtgcaaa aaggtttccg gctcgggttt tactaagatc agacgacagc 180
cagccaggca aagaatcggg agtggagcag taccagcgca gtggtataga cagactcgac 240
agccggcgga accagtcttt tgcgtctgaa atgatgctgt tttcctgtcg gcagagtctgc 300
agggctcgccg gttcttcagg ccgaccacgg ttgggcacgc gggctaagat gattctcaag 360
tctcaaaggc gacgatccga caggagccct tgtttttgta ccatggaggt ctgaggtgat 420
gcgcacattg gcagggccca gtagatcagg aggggacgcc ggcaaaatta agtcagattt 480
cagttcggcg acctgcgcaa gcctgaaagc ctaccttgcc tagccagatc gtctgacgac 540
cgatcgagtt aagcacgaaa tccactgcgt ttgcgggcaa accacgactc gctttcccg 600
ccactcccca gccaccgac gtaacggctg gcctgtgtcc gttgacgatg gagccggcta 660
tgcaggtgac cagaccgta tctggccgcc aacgcagggt ctccgatect tccagctttt 720
ccagcttctt gtgactccag gtgtaatggg tgatgtctgg tgcgcggatc tgggcattcc 780
agtcaaccat gattccaaat ccaacgtaca ggatcttgtg aagaagccaa taatgcgatc 840
gctgcgcttg gccagtaata tgtacttacc taaactttgt tgtatctcat gcgttagcgg 900
cgagcattca tagatagctc tctcctttct cgcaaaactc ttctttctcta cgtgccaaag 960
caaagtctcc cgaataacct gctggcgatt agcgaccacc tcaatctcca agcaagaggg 1020
tgccgtttta ttatccaaat caggaaaata cgaacctcaa tagcgttttc ccaccaccaa 1080
agaaagtctg acgaaaagcg cggggaagcg cggagcaacg cctacagggc aactgttaga 1140
gtacttataa cgcgcccgtc acactttttc tgttctcgtg agctggcttt gtcttttttg 1200
gtcgcgagtt ttccggcagt gccgcaagcg cctcgagaag gagtatgcc agatcgtccg 1260
tctgttctta tccccttctt tcgtcgaacg tacctagatg tcttccttcg ctgatagtcc 1320

```

gtcggaattc tattccaggc tcaagcgaca atagcttttt gtaatgggtg agacgcaacc 1380
 tcacaatatc gtcgcatgt tgaaccttc ttcggccata tctcaaaggc gaggagagcc 1440
 ggcgaccagg cgatgcgaaa gtaccccaa agccaatagc gaaggaaggc gaggtgttga 1500
 tatatcagtg attaggaagc gctatgtaag aaaggaatgt gggattgggc gtgaactctt 1560
 ttcagcgcg aactcttttca aagtgttatg caagagtccc ctgcgcacac agctgcgtgc 1620
 gctccattct agcgcggtag atgcatcaca tcgactagcc ttctcacaca ggtcgcagag 1680
 atctgccgcc cactgcgccc gccaggatt agaaagcatc gtttgaagca gttgattcga 1740
 catgcgctct ccagccggtt cgtaccgtcg gcacacctcc gtcaaaggcc aagttggctg 1800
 atgcggagaa aggagacaag gatgcacgct cctgttgaa cgagtcatca atgcagtgc 1860
 tcgctcccag accaaggccg gagaacaaga aatgagacta actaacctta ctctggactt 1920
 aaggtgggtg ttgtcactac gccgcattgc actcaggact ccatgtcagt atgaatctgg 1980
 aggagctcgc ggctgagccg ggcagattac acggtttgtt cccagcgtc aaactgtgcc 2040
 aatggtatct tacgtatacg ggggtcatag gcatgaatcc tggtttctag caaatgcagc 2100
 cgcgtaagaa agcttttaaat agtcttcctc ctctgcgtc caatccgagt cgtatgagcg 2160
 agctgttcgg ttgatagcca ttggt 2185

<210> 1969
 <211> 2531
 <212> DNA
 <213> Aspergillus nidulans

<400> 1969

gacccaaagc gcagaggggt gagacaatgc catatggtaa ttgcatcgat ttgttgcgcg 60
 aacaacaggc acctatgcc aactactacc atagggtaca atactagcat actcgtccgg 120
 cttgaagaca acccccaacc cggacggatt ttacggttgc tcgttttagca gcggaagata 180
 gtacggctcg ttaccagctg actgtgacgc acggtcctgc atacactgct gcagcacctt 240
 ggctcgtcta tgctcgggct tgtaagttag gtctgtcaga ggcgcgatgg cgaggacgcc 300
 gcggattcgt ttgtccgttg tcgcggcgca gagggcgacg acggcgagga atgacatgcc 360
 ccagaagaag agctgagatg gatatactga agcctgcgtt gaaagaaagg tcaaggcgctc 420
 ggagtagtcg gctgcttgtt tgacggggtc gatttcgttg cgcggtgtac cgtccgatag 480

gccggttgag cgcggtatcgt agaggaggac cgttactcca gcagtttgga aatgcagggc 540
gacgtcgggg agaccgagca tttctttcac gcaggcaaac tgggcgctga agtgtcagtg 600
gcgtcatatg gtgtacgctg gatatagaag taaagccagg aggataacgt actccggggg 660
tcatcacaat ccccgaccg cgagcaatgg ctggatatag agtccctcgg agtgtcagtc 720
catcgagagt cttgaattcg atgctttgtt cctgtagaga cattggtttt gtccttggtg 780
tggacggtga cggcatacgg taactgatct gttggttggtg gacacgatct gtgattaaag 840
caggtcaacg tggaaaacat agagcgtaga acacagaata atactgcctt ggttttaccc 900
gaacaagaga agattaaaaa tacttgtttc tgtaatgaat caatatgact gcaaggcgag 960
ccacaaatct tggcggtttg gtcactctgtc acgctataaa caggagggtg ggacacaatc 1020
ccggatgcaa ctactgcgta ctggggcgcc tgatcctcag tcgattttga aaggggtgta 1080
ggcataactc agcacgattt catgttcagc ggcatacgt agccaccttc atgcgagtcg 1140
tcggagttgg acctcagtct agacatttca ggatggcctt gacggttaagc gcaagggctg 1200
ccattgtctt tcctacaaag tttgctgcag caattcccat tagggatgca ggacgcgccg 1260
tgtccgctgg acgcctaatt cccatcttgt aaactgggtc gcgaccttcg gtaccttggtg 1320
gagcatcaac actggtgctt atcaatgcgg acgttatatt gtacgctgga ttgcggctct 1380
tggtagcagg gaccatccga ccaatcccgt cggtagcctg tggacatgcc agtcggatat 1440
ggatgtgctt tgcattagag gtttaggtgc ggttttatca catccgtaat cgcagaagat 1500
tgggtgtaggg agactcttga tttactccc gtcaccccaa aacgatctgg tggatatctg 1560
cttggtttgt aagttcccgt tgtgttcttc catcaacagc tatagggtgct gtgtattacc 1620
tgttcaagat gaatggaata acctcaacct cgttaccctc acctcgttac cacttcgagc 1680
ccattgcggt gattgggttt gcctgccggc ttccaggaaa caacaactcc cccacagcac 1740
tatgggactt cctcgaacgt ggcggagtgg cgagtcgggc tgttccagct tcgcgcttca 1800
acttggcagg ccacgagaac ggcagcaagc ggccgggtac aatgcgcacg ccggggggta 1860
tgttcttga gagtatcaat ccggcggata tcgatgcca gttcttcggc ctctcccgtg 1920
cggaggccac ggcgatggat ccgcagcagc gccagttgtt ggaggtcgtg tatgagggac 1980
tggagaatgc cgggatcacg ctggagcagc tgagaggaca ggatgttgga tgtttcgtgg 2040
ggagttatgc gtctggttgg tgcaatgatc atacggtgtg ggatatgtgt atcagttgtt 2100

gatgctcata ctttctagac tatggcgata ttcaggccag gaatccggac gatcggggcgc 2160
ctaattcaac cgtgggtatt ggacgcgcta tgctcagtaa tcgattgagc catttcctgg 2220
ttctcaaggg accgatgttg acatattcag tcttcttgga acgatgttca taacaggact 2280
ggatattttac ccattaatcc gacttccata gaaccgttac atagctggga acgtgctcat 2340
ggacgcactg ctgctggttt ctctcgggg gctacgaaag aactcgagct cgatataccc 2400
tttccgcaca actagatact gtgaacattc aatgtgattc ttgaaaacat tcttttttagc 2460
ctatataaag attcatttgg gaagaacatt tcactcattt tttaagcgac cctctcatta 2520
ttaacccttc a 2531

<210> 1970
<211> 1017
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 1970

atacttacta tcgttctacc ataccccctc atttcccgcc ccagagcat ttatcctcta 60
tcttactgtg ttgtacccta ttatctgtga agaaagtacg tatacgtacg tcaatgcgct 120
tacatgatgt aatgacctga tgttgacgct tgctttcttt ccacctctag ctttttagtc 180
ctgttttctg aatagcatga gcatgagcgt ncggatttat cgattatgat atgggtattta 240
cccaagcata gggctacctt gatatgaagc aatgcggcgg gttatatata gactttcctc 300
ttttatctgt ttccctgcta gctccactat aatggataac aaactggata cctggaagat 360
gagtgttaat gcagagagta taaaattctt tgaagatgaa attatagtct tatcatatac 420
ataacaacag ggaaagtatt ttttcttggt ctatgttaga tggcttacia tagcgctgtg 480
tatctgcata aaatggaatg ggtagaatac agctatgcca tgtcccagct ctgaccgaat 540
gatgtggaaa tgggcttaag tgcgggcgta gatgttgccg aggggcgaac agtgggtggtg 600
atggccagct gcagtgatat atacggaaat aaggaagtta ttgctttaag ctactctac 660
tttgccggt atccaccct accgcggcgc gaaggatttc cagagtgcgc ggagtgaagt 720
tgagtatgag gttttttggg cgttggtgtc gacaactgtt gatgttggtc tcgatcagga 780
gcaccagctt cagaaccgtt ccgcgacgcc tggctctgct gcgccggtga cgatgcaccc 840

tgagactggc cctgagtctg cgctgaggt ccttcccc gcctcgtccg ctgactttga 900
ccaccgggac ctttactccc acgacctctt cgtccccac ggccgtctcg ttcagccttc 960
ttctgcgtat cttcgtcttc agccccgggc tccggaatcc cctgaatgcg tctactc 1017

<210> 1971
<211> 1723
<212> DNA
<213> *Aspergillus nidulans*
<400> 1971

cgaatgcgat atcacagacg cctcatccgt gcaatcggcc tttgcggccc tgcaaaaaga 60
ccagaccgct ataggagctt tccaagcat cctcgtgaac accgccgat acgtctcgtc 120
cagtgatatg cacctcacgc caccagagga aacactcaag cacttgacga cgaatgtgct 180
aggcccatg ctctgctcgc aagcgtttgc gaacctctat ttcgccgat catcttttaa 240
ggggcaaacc cggaatgcgg aggcgcccc ggcccggtt gtaacgctcg cctcgcaagc 300
cgcgcatgtg gctctccacc ggacggggc ttactgcgcg tcgaaatctg cagttttggg 360
cctgactcga tgcattggct ctgaatgggg gccgaagggg attacggcga atacggtgtc 420
gccgacggtg gcgtggacgg atctcgaaa gaaggcatgg ggggagcagg gactcaaaga 480
gaagctgctg gagagcattc cgacgggcaa ggccggcgtg ccagaagagg tggccgacgc 540
ggtggttttc ctctgtcaag actcgagcgg gatgatcaat ggggctgata tcagagtgga 600
tggcgggtat actattcggg gatcgacgt gcattttctt ttattcaagt tatagatgcg 660
ccatgcgcaa tgaatggaac gttatattga tcaatactat agactctttt gtcttatttc 720
tgatcagaca ccagaagttc caacaccctc ggggtgtggc cagctcagga gagagatccg 780
aaaaatttca aactgattt cgcaggcatc tccatcaaag acatgggtgt acatttacag 840
gatggagagt tatcgtctcc ttgacctgt aggcctgtag gagcaagccc tgctgtccaa 900
cctaccgcaa gctctagtgg ccttaggcag aacttcgggg aacataccct cctccatggc 960
gacgacggtc tggcctttca acacccccag ccaaggcccc tgcttctccg ttggaagtat 1020
gtccgttgtt cacagcagtc tggctgatat cccctccat ctgagccggt acgtggcttg 1080
aggtagacgc agcaggcgcg cgagcgccgt tttcctgtag aagacttttg ggcacgtagc 1140
cgccgccgtg ttgacactg ctagaatttg tctgcggaga agaaactgct gccgtctcta 1200

cactagctgg tgcattgatt tgcggctgct gctgcgttgt tgcgccccaa ctggacaccc 1260
 ttgtattggt agtgaaggg acgaagccgc ctccgtggcg cttagtagta ttcgaattgt 1320
 gagacgaagg caggtttgac acgggagtag attcactctg ggggcgtgaa tagcgatcct 1380
 ggccactgct ggactggtcg actgttgagc gccgggtgaa tgataaggac gcctttacgg 1440
 ctgggatgaa gccgccaccg tgtctcttcg gcgtagacat ttttttcagt tatctgagat 1500
 cgtaattcgc accgtgatca gtttcaaaaa gaactctcat atataagccc tgtatggtga 1560
 ggaatccctg actgggggtg gggccgcctc atctgatttc ccatgctcag cctcagcctc 1620
 gtagagactc ccccaccatt gccaatctc caggggctta acctgatttt ttacaggaa 1680
 ccgaaataga tgccagagat aatggacca gtcttcaacg acc 1723

<210> 1972
 <211> 1920
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1972
 cttctttcttc accaccacgc cttctgcagg cgaccgcctc cgcgtccagc acgtcagcca 60
 tccgaatctg atgtcccaat gctggatagt gagaatgttc atgaggtttc gggggttgcg 120
 gtaccggcca gggaagaaaa gaggtcagaa agggttcttg aggaaggaaa agtgtttgag 180
 ctggatgggg ggttcgatgg ggcgagacat cagagggcta taaatgggga gcctgaggtg 240
 gatgccaaac agtagaagga atagcatgac gagccaatga aaatgaagat caatgtccaa 300
 tctgtcgtgt cctatctaag ctaaacaagc tatctacca agtgaagaaa taaggtaaag 360
 gcaaggggta taaccaccac gaacactatc caagtcatgc acattctcat tctttcattc 420
 cgaactcgcc agacaccgtt tcaatgtaat gcagcgtatg cgtccggact cactcgtgat 480
 aggtacttaa tatacaaacg taggtcaagt cgacgcaaag gggataaaaa aagcaggtgg 540
 gaatttgaat tattcagaaa gcaaaaggaa gtgaaggagt aaaaggggtt ccgtcagtcg 600
 tctatattac gtaggtagat tttatgaggc cggagctggg gcgcgcactg cctgcagtgt 660
 ctgcctgtg tctgccagtg ggccgcacca cccgtaaacg tcgcagcggc attgctcgta 720
 gcggggacag ctgcaatcga gctggttagc aagtggattg gaacagaatg cgaacgggac 780
 atactaaata acttccatcc caaagataat gtgccagatc ttctcgtata ccagccaac 840

cccaaaactg tctgtgcgct ctgtctccgc cgcccacttc aacatccgct cgtagtcatg 900
 ccttggtcgc tgcaggatgc gctcgcggct tacggcaaac tgcccgcagc atacattccc 960
 aatatgctcg ggtacctggt cagaaggaac attgaagatc gtttggtata cctccgggaa 1020
 aaatgcgcgg atatcgttct ttctgatata gatctgcgtg gggctccacg ggtgcacgct 1080
 cgtcggacac ccagggtcat gctggcagcg cagattgacg tatcccattg catccacggc 1140
 ctcgagacgg agatttcgca gggcggttgc ggtgtagggg ccaaaaaggt cgttgtgcc 1200
 ttggttaatg ttagagtgga tgaagagcga gtacggcggt agtttatcgt agtgatccac 1260
 gataaaggac aggtaggcgg ttgcttcgcg gccgcggggt gtgcgtggaa ggaggaggcg 1320
 tgggtcaggt ttctcgtcgg tgctgtagat gaaagggatc gtatcggggc cgctgtgaaa 1380
 cagtaacaca agtcagtcct tcgctgttgg gcttgggacg ctaggggtag acgaaccgct 1440
 ccttgcaata atcgagaagc cactgcaa at cctcagattg ttagctgct agcacgagcc 1500
 cgactcgact tgtattgctg tatgccgatg tgatttcggc gagttcacg atgacctggt 1560
 cgtgaagcga ttcttgcgct gcgatgacgc cctcagtact gtcgactgac tgcgcactct 1620
 gtaaagacga acctcgctga gctggcgtca tgggaaaatg acccttccgc catataggaa 1680
 taatgtgaga ctgctcagca gcagagcgag gaacgtcaag ccagtgggtcc cgggggcttg 1740
 gccacggaag agtcgccgct tggccatcag gacaaacctt ttcgcggaat aaaaaggcgg 1800
 ggcgcaatgg gacggcaaaa aaagaaaaac tggcgaaaaa atgacccgga tgggagtttt 1860
 tggaataaaa acctttcgag gaattaaatg attccctggg gggggaggga tttaaattgg 1920

<210> 1973
 <211> 5224
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1973

ttcaatgcgg cgggatagtg tggcatgaaa cttgcgactt agtaggggta taatTTTTTT 60
 cagaaagacc gtatagactc ccgcctcatc ctggctgttg tacgggaaaa accatgttgg 120
 gtactaatat gctggcacca agaccaagag ttcacttttg gcatgctgtg tgaagcgagt 180
 tgtatagttg gcacagtacg actaactttc cccacgtaat agctgtgcat tgtatactcc 240
 aaggcacgcc ttggatcagt tgaattgggg ttgggtgtca ccaaggtgcc cgcctatgta 300

cgcaggagat tgggtgatacc ttggctttga ttagtttatg gtgtaatatg tcaaacgttt 360
 actgtggtat ccaactaggta gcaagattat attcacaaga ggagccggaa tgaggaacaa 420
 gcggccaaat gggcgcaagg ttcgatccgt tccttcaatt catagattga taataagtat 480
 attgtccatg atagtataa ccagcctatt ctcttcattt ttgatggcga agaccgtctc 540
 tggatcatgt aaatatccgc gatagcgttt caaccgtgcg gtaggtgaac ccagccttga 600
 attcaagccc tatcgctcc tgacgcaatt gagccaactt cgtgtcacat tggctaagtg 660
 cgcgtagggt ttgctgtaaa gtacgatagc atggacggca tccgcgatat ggaggacaat 720
 agcagctgca atgggatgca tggccataag gaggtacagt ctcttgattc gtcagtatca 780
 gcttctcatt gagagaatcc ttgtaggcag cctacgacct catctcctta tcaacgcttg 840
 gggttttggt aacgatagca gactggacac ggtcaacctc gtaccgacga atcagctcgt 900
 ttcgctttcg gcttttgatc gcgaaaatag gaggggtgggg tgaaatgatt ggattttgct 960
 tctggcccgg cagcataaac ctcccacaac ttgccagacc cgctagccct tccctgtgtc 1020
 ctatccacag ctctcgtggg tctgctggcg ctatcaggcg acccttctaa tccctcgtac 1080
 ccggtctgtc tccctggtgcg gctgttatct tgtgacgttc tttgagcggg cagcgagatg 1140
 ggccctgaaaa gagccggttc tagggtcagt tcaagaacca ctcggcgttc tgccaacct 1200
 gaaagcaaga tttgcgtcat acagacaaga agcgttctgg aaagccagaa aatgcacttg 1260
 gaaagatagc agcaagtgtt ctgctttctt ttgtcttgag cgactcatca aacagttgta 1320
 gtgcctgatt aggacagtgt catatgcatac aggcactgca tagtactagc gtggtctctg 1380
 ctgtgtttga ttgcttctc acacaacaca gatgaaaccc ccaagtctca tcagccatt 1440
 tgtcagaatg cagagctaag gagtgtgtga ctcttaggga cgctgctttg caatgctatg 1500
 tatcacagat agcttccgag cttgggctac gacttgcaat gacgccgcca ggataactga 1560
 cgcagcgtct caaatatccc ttggggactt ttatagctcc cagcagacac tcagtttaca 1620
 gctatacaaa gcaagctgag actggcctta ctctcagtca ctcttctctg ctagcataat 1680
 ggacgttttg gtgagatcct gcgtctcgat tcatccggcg gtccctcgtct gtcgtctctc 1740
 ttctgactg tttgaaatca gtcgaggata atggctgcta ccgtgagctt cattgactgg 1800
 aactcctcgc cgtgcctgaa tgtttgctg aaaccatttt cattagctgc cttatggagg 1860
 agagaaggtc aaataaaacc atgacaattc aaccaaacac atcccactac tgaaccctag 1920

ccgtatacgg aaggggatta gcataatata catgtatcgt agtatgggag ttctcgggga 1980
 gcacaagggtg agatactcct tgattacttt atagtctatt tctagttgaa tgcaatgtgc 2040
 ctgtcgtata accataaagc aaaaccatga gcttggagcg aactttcctc cctctcagag 2100
 agaaacaaca agctgggtgtt ctcttgtgg tagatggatc tcgctcttcg aagagactcg 2160
 tacctttgtg ggagtcctg caacgaccct ggcaccaaca ggaagaacca gcctacagtt 2220
 cgtactcgtt gggatcctca catccaatct gacctttcca gattccccctc tctcaaactcg 2280
 cactttgatc agcccgtagc gacagtcaac ctctccctcc acaagtccaa actcactcac 2340
 aaacgggtggc cgcaatgtcc acgttttata cgcacccccg accggcttca cgccaagtac 2400
 agcttcatag aaccattcat atattgttcc cagcatatca tggcactttg agcggcaccg 2460
 atcttgccag aactcaagaa gcgtcgtttc gccccgtcgg agaaaccgca tataactggg 2520
 atgctcttcc tgccgcgcca tggccagcac aatatctggg cggtcgacat ccggttctgc 2580
 gagtgtgttc caaaggtagt ttaggcctat ttgcgcggcc tcgatgcgat ttcctgacgc 2640
 ctgcgaggcg gacaggaagg cttttatcac ctctgcccgg tgctctacag gaacgagacc 2700
 gaattgcaga gcgacagctt gcgcgaccat cgtgcaatcg taggtacctg gattgtcgag 2760
 tgagggttag aaggcgtatg ggcgagaagc tttgtcattg atcaggaggt gcttgttata 2820
 cacagcataa atccgttccg cccacgcggt gaatttcgct tcatcgtctg cttggcccag 2880
 ttctttggcc attaaggcaa cgttgcgtag acatcggtag tacactgctg tctcaatgtt 2940
 cgcttgggtg ttcccgaacg caatatcgcg gcccgaatcg ccgagtcctg gctcaattag 3000
 acctccttgt cgctcttttg ttttcatgta ctccatgtac cgaatgcaag gctgatatat 3060
 cttgccgaat acttccgttg agccatagta tcgcttgatc agttccggaa gaaatgcaat 3120
 tgcgcagccc caagtgatcg tgctgtggag cggaccacac atgtatctga tttctgggtg 3180
 cattgtgggc acaagaccgt ttgattcctg ggtatcgatg atatcgcca ggattttgga 3240
 gtaaacagct tccatatctc gaacgtactg agtcgcgggt gcaaggagtg aagttacctc 3300
 gagccagccg aacttctcga tttgtgggca gtctgtgtgg tagctgaaga tgtttgagga 3360
 gaacgtccag taacaggcat ttattaggtc attcacgtcc ttccatctg ttttgacgta 3420
 tccaagctgc cttgcagccg acgagatgtg tcgagcactg acagaatgga ttgttgggag 3480
 gttgtcggtc tcgtcgagcg acgcacctc aatctgaata taccgtgcgc ttgtaaaaga 3540

gaagtctggt gtccagattt cgacccagct ccctgatagt atgagtttgg aatacacgcc 3600
 atactcgaac tctttgaaca aaggatcggg cataaacact gaaccacat cgtcgaccgt 3660
 ctctgagtac cggatgatga tctctgagcc agcaggccca ctgacctcaa cacgcggcat 3720
 gatactggaa ttctggccca aatcgaacat tgtcaccccg ggccggagct gcttgtgctt 3780
 aactggggtg aagagattgt gtaggataac tggcggctga ctctggtatc gaagtttgcc 3840
 tctaggccca gtcaacgggt tagcagaggc ccaggtgcta tcatcatagc ctggtgtatc 3900
 ccacccaaat ggataccccc gccgggtcatg atcttcagag gcatatatat tggccagcgt 3960
 cgtcgcgctc ttgcgcacct tccagcttgg gtcagaaatg atcgtttcat gggaaccgtc 4020
 gtcatagtgc acatggatct ccggaagaa acacagctca ttcccgtacc gaacgtacgt 4080
 gttgtcctcg tacattggcc agaagaaccg gtccccttga tcgcccgcgt agaaaccgtt 4140
 accgacatgt gctccgatca cattctcctt ctgctccac tgcggcgcta cgttgtagcc 4200
 gacgaattgc acggtccggt ggtagtttgt ccatccgggg tcgagaacgt gcgtcgaggg 4260
 aggctttccg ttaacgaaga gattgaagtg acccagccct gaagcgaaga tgactacttt 4320
 ctgcagcgt ttagcagaag acagttggat cgatttgagg aggtatattg gcttgtcgcc 4380
 tccgtttcca atccagacgg ctttccatcg gtccgcctca ttttcgaacc aggtgcggaa 4440
 gatgagatta gtgtgcggca tctattctgt cagctttaat atattatctc cggaatgctg 4500
 agcactgaca taagtttggg tcatgctata cggaggaagt agcctcgatg agcgcgggta 4560
 cgaggataaa aaatcattga cagcgtctt cgactcttta ccttctggt cccagactgt 4620
 cacttgccag tagtacgttg tcgttgactt gaaaccggac tcgggtttgc atataatgtt 4680
 gcgtgcgca tcgtctcaa cacgccaga gtcccaggca tccggctgct cctcgagacc 4740
 cttcttctca gaagacactg ctatacggta ggcagtctgc tctgacctcg aacagccacc 4800
 ttcaaggacc cagaagaaac gaatctcatc agtgtcgatc ccaagggtt catggaaacc 4860
 gtgaataccg caccgagtga ctccatatt gcgcaaacca ccggctcgag tgagaggtag 4920
 aagacaactg cgccagcttc agcggattac aatcccagct taaagtaatt caagctgggt 4980
 ccacttcagc tgcccatcgg tttctgattg cccgagcgcg gtcaccagcc agaatggttg 5040
 gactcggaag tgccgaagta gtgccaacta cccaacccg ggaggcgacc aagccagctc 5100
 cacatgggtc ccgactcgtc ttaccgagat accctagacc tggcagatga ttgtatgaga 5160

agtctacgta gtcattgagc tcgggggtatc gttccccgtg tggccccgca ttgcaaaacg 5220
tctt 5224

<210> 1974
<211> 736
<212> DNA
<213> Aspergillus nidulans

<400> 1974

gaggtatata ttcccatact aatactgttg aggatcaata tctctctctt gtatatagat 60
gcggctgccca ccagaatagc tatttgtcaa accaggaatt actaccaag aatttattag 120
tgaaaggaaa gagttgtac tcctctggga ggattaggtc cttatttggt gcacaacttc 180
atgcagaaca gagatcacag tagtggccta aattttactt ctcaccccc actcactcaa 240
gaagtgggtg atttactcac ctgttgttaa cccatctcac ctgcaccac cctaggctag 300
tgtctctcac tcctaaaagg agaaacacac tcagggcttc ttatcgact tgtatccg 360
ttgataatgg tgacagtcaa gtacaaaaag aaaaacatac aacagcatgt atatttcggt 420
gtcacccat cccagctact gttccgtcgc cgctttgccg cacatattcc ggcgcttaa 480
ggatgaagatt caggcgctg gatattctgc acctgagcta cctgaagcta catttcgaca 540
aaagcgcaaa aagacatcct caagagagag ataatcatc taaaacccat ggtgtgtatg 600
tcttactcct attccttctc ccatatttaa ggctaattctg acagtatgcc acaagaaccg 660
gcagctaatt ttacgcgctg gatcaatctt gatgagcaca atggtaagag atcaaacgag 720
cattctttca cgaacg 736

<210> 1975
<211> 2603
<212> DNA
<213> Aspergillus nidulans

<400> 1975

agtgtcagt gttctgagtt cgtggaaatg ttcgttggtg tcggtccttc ccgtgtccga 60
gatcttttcg ccaatgcgcg caagaacaca ccctgtatta ttttcattga cgaaatcgat 120
gccattggta aatccaggtc cgccaaaaac ttcagtggcg gaaacgatga gcgggaaagt 180
accctaaacc aaatcctcac tgagatggat ggttttaaca cttccgacca agtgggtgtt 240

ttggctggta ccaacagacc cgatgttctt gacaaagctc ttatgcgacc tggacgtttc 300
 gatcgacaca ttagcattga tcgacctact atggacggtc gcaagcagat cttccgtggt 360
 catctgaaga agatcggttac caaggaggat atggattacc tgacgggcag gctgtctgct 420
 ctgactcctg gctttgctgg tgctgacatc gccaaactgcg tcaacgaagc tgctttgggt 480
 ggtatgtaaa ctccctcatc cttcctgttc ccacaatata gtttcagttc actgatctgt 540
 gtgcagccgc ccgtgaaaac gcagagagtg taaccatgaa gcatttcgag cgagcaattg 600
 agcgagtgtg cggcggcctg gaaaagaagt ctcttgctgt ctcaccggag agaagcgcac 660
 tgtggcttac cacgaagccg ggcacgccat ctgcggttgg tatttccgct gggcggatcc 720
 gttgctcaag gtttccatca taccgctggg ccaaggggcc ctgggatatg cacaatacct 780
 gcccgccaat ggagatacat acctgatgac cgctaacc aa atgatggacc ggatggccat 840
 gaccttggga ggacgcgtca gcgaggaact acatttcgac actgtcacta gcggagccag 900
 tgacgacttc aacaaggtca ccgcctggc cacagctatg gttacaaagt tcggcatgtc 960
 gccgaagctc aagtacatct actatgaaga ggacccatca tcacagcttc acaagccctt 1020
 ctcggaagag accgccaagg atattgatat cgaagtcgc cgtatcgtca acgaagcata 1080
 caagcaatgc cgcgatcttc tcacagcgaa gaagaaggaa gtcggcctcg tcgcagaaga 1140
 acttctagcc aaagagggtc tcagccgcga cgacatggtc cgctcctcg gtcctcgca 1200
 atggccccgag tcaggagaat ttgctaagta ttttgatggc aagcatggcc agaccatgc 1260
 gcctcctgag cccgaagttg gaccgaagc tggacctgag acgagagaat caccatcatc 1320
 atagagctgg atttaaggaa aaaatatcga taagtgattg actgatcaat ttttttctgc 1380
 tgctctttca tcttatcttt ataggaggaa cttgtattta ccagcatttt atctactccc 1440
 ctcttatttt tttctccctc catttacta cctgcttata cctactctat ccttccctct 1500
 ttcttacc aaatactgat ttttttgga gcttcccttc cgaccggttc gatccccctc 1560
 gtctttgtat ttctgcctcc gaagcgtcga gtctaagtga tcattgtata gtaggtagct 1620
 gaatgattta tttcctttgt gaatcctggc tggcaattct gcgaattacc agatatggct 1680
 gggaagttag gtagaattat gtacttatta gatcgatttg aggcgttccc aactccggct 1740
 gttttgtcc gagaagtga aagaaatagc ccaaggccaa tacattcaaa atagactgag 1800
 aatcaaaacg caaaccatta tctacttcaa cctccgaatc taatgtggaa aaataaacgg 1860

cgacgtggac cactcaaacg gcctgcaccc atgtaaaaga agcgaagtat gcgtttccaa 1920
 ccagggagag ttaaaatcgt tagatataac ggataatatg catatttact cctctttctt 1980
 gccgtgagca accctcttct tgtttttgtt gcctttgcac ctaggcgtaa tagatagacg 2040
 aggaatgaat cttccgacgc gagcctggta ttcttggtag tctgggtact ttctagcact 2100
 gatctcctca gtgaggcgga cgcttccttg gaagatagcc ataaggccga tgacgcctag 2160
 ggcagtccac tggacataat gctcagttcg gtaggcgttc cagaggtaaa gagtgagcca 2220
 aatggcctgt tccgcggcaa agttgggatg gcgggagagc gaccacaacc cgctgacgac 2280
 gaagccacgc tcaagatctt cagggtcata ctggctccta aggttaccgg ggatcctggc 2340
 ggaggtgttg tattcgtgct tggcattctg gaatctccat tgttgctggt cggcaaagaa 2400
 ctcgagaatg atgaagacca aggcgacacg ggagaagatc aggtcgggaa gttcgaaggc 2460
 ttccgcgccg ggaagacgcg caaggaggag gaagttgtag gttggggtcg tgaggaggag 2520
 tagcaggagc ggctggatca cgctgatgaa ggtgatgttg aagaggaaga aggccaaacg 2580
 gttgtttaca ccggaccgga taa 2603

<210> 1976
 <211> 2592
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1976

agtccttcg ccagatcatt ttccttgtct tcagtgggtg gcgctgcagc aacagctagg 60
 cccgcgataa gtaaattgga ctccgcaatc ttgcctgtga atcccaactg ccggacgtcc 120
 tgtattactc gagtcaggct gcccgtagac atggacctga aacgttcact tgttgcacgg 180
 ataaaaagct gctgacctc gctgtacata tgctgaagtg gtagggattc ggcgtactgc 240
 acgacaggaa tggtagcact tttttccgca ctctgggtag ccaaaacgcg gcgtctgatg 300
 agccttctca aagaagtccc tgagtcgacc gacttttcga cataactctc aatcttgaac 360
 agatatctct tgacctcttc atgatccgta gctaaatcct cgaaatcctc caaggcatct 420
 agagtcttga tcaactgtgac tgtctcttcc aagggttggt tcttgtactg atctctggcc 480
 gagcgcaagt cgctaccac aagactgaag actttttcgc ggctagcagc aagctccgcg 540
 acatctatcg cgtccattaa ttgttctga tgaaccaga attggtatag agagatcctg 600

aggaagaagc actccataga gctgcgatcg attgactgca acttggacac cttcgcat 660
 atcttgcgga acatcttctt aaaaagcttc cggcgctctc cttcagctag aagaagcaat 720
 ttcgaaacga ccgcacggtg cagaaatctg aatgccttca ttatatcaag gtcaatattc 780
 gtatcctgca acgagagtgc tttcgcaatt gtccagagcg gttcccagtt tccagtgate 840
 tccgcggtgg atttgggtaa atctgccagc ttggccatca atgacaatat accaacggtg 900
 actatggaag tgctgtcctg ttctgataag acgccctgca atagatctag gagagctcca 960
 gtttggcggc gtgtgataag agaagccggg actctttgca aactctcagt gtagagcttg 1020
 agattcgaaa catcgtcctt gattcgctcg gatatgacaa aaatcagatc gttcacaatg 1080
 ctggggggcgt tcaaaagata ttcgtgagat gcgacgctag cccacgtttg caaaaaacgt 1140
 gcacctgacg agaagttctc aagagtcgac gaagatggct ggtattgggc cgtcgcgaaa 1200
 gagagaatat gagaaaacag cgggcgtcga atgttggact caatgtgact ccaaagggtca 1260
 gggattcgga taagacctag aaaatatgct aaagataggg tggctggaga gtccagtga 1320
 ttcaaacgac cattccacc agagttcatg gagtctagt cagcctttgc cgagatagaa 1380
 ttcatcaact tgatgacttc tttcatcaa gatgacagat cctcgctgct gttcgtgcta 1440
 ggtgagtgtc tgggtgattgc aagaacaagt cgatatgcct caatacactc aagacgtgcg 1500
 ctgagcttat gcgtcaactc ctggtgtcgg cgtttgatcg aacttgtagc cgcgccagtc 1560
 aagcttgata aggaagcgcc gagaccgacg ttgacttttt caacattgtt ctcaatcaga 1620
 ctgcgagtta acttccacag acgccaccgc caatgcaaag cttgatccga agaaagcgtc 1680
 gacacaactg tttccattgc agatgcgagg tcagcattat tatcggcaag attgatgttc 1740
 cgtttcctga acccagctc agcaatcaac agctgcgcat atgcctctgg agacctagca 1800
 agtttgccat catcaccacg aatctcgacc gccgcagcac gcacctgagc ggaggcaa 1860
 gtttggttca gaggggtgcg cataatttca ccgtatgcat caciaagggtc gtcgtcttcc 1920
 cacactgtaa agaggetgag attactgtct tgcattcttg ctctctctat atcggtcagt 1980
 tgctggtacc agatctccat gaaagtaggg agatccctgg cattcatgaa cccgcgtagc 2040
 aaaggcaaaa taatgccggc tttgataatt tcgtagctac tatcggtgga attgccactc 2100
 cgccagagca aattaatctt gttcagcaag gccgccagat acttctcaga gtccgcaagt 2160
 ccggagtgtg gaaggaagat atccactcct agttctatga ggagtgcaat gagattccac 2220

tcaaccagag ggagctggtc cttcagaagg ccggtatatg cagcatgtgt aagaagcgtg 2280
 tgtagcgata attgcacatc cggctttaga gccacttgaa acagcagctc taaaatacgc 2340
 acaaagtggg aaacaaatgt ggttggcttc gtcgatttca tagatgagaa tgccaattcg 2400
 gcagcagcaa cgaagagtgt ctccaaccaa ggtgcttcgt ccgttttccg tcgaaatgag 2460
 tcccgcggga ctgatcgagt agcgatgtag aaaaactctg gaattagctc cgccgcattc 2520
 cagaattctt tctcagcggc gttgtctttt gtcacagtgc tgccgggctc ggatagaggc 2580
 tcggcggcag aa 2592

<210> 1977
 <211> 3822
 <212> DNA
 <213> Aspergillus nidulans

<400> 1977

cacgtcggct ggatctgcgc ctcttcaagt gactacgcga ccgacaaagc cctattcgat 60
 aaagaacttc ggattattga aagacttgca aagaggtaaa gcagccgctg acggctctac 120
 agaggccaat caatgccctc aaggcgaatc attgccctca aggcgaatca ttgccctcaa 180
 ggcgagacat aaaatgcagg ggaatcctat tcattcaaac gtccgcacca ttgagcggta 240
 tccgcatatg aagacgagtt tggacggccg aatctagata gtgataagct acttaagcta 300
 tataacgcac caactcctct gtgctgacgc cccgggggtgc tgcgcgggta cgggctcgtc 360
 agtcttgatt gaacgccatg atcgatcaga gagactggac gacccaatga tccactacga 420
 tgccattggc tcaggcaaca ctataatgaa gaaccctttc tggcgagatg agcttgcgag 480
 caagacggac atactatgtt tcgatacggg agctgctggg ttgaaggacc aatttccctg 540
 tctggttaaa cgtggtatat ccgaccatgc ggattcgac agcaccgacg agtggcgggg 600
 gtatgctgca atgacggctg ctgcctatgg gaaggacctg ctcaatccta ccggctatca 660
 gacttgaagc ggagatagaa atctgtgagg tgttggattg gcatacgaat gacgactaca 720
 gcgtgcagca gaatgataat ttggaaccgc gcgagcctgg gactggcgga tggttcctcc 780
 aaacactgga gtttgaggac tgggtggaga gtcttgcaa actcttattc taccctagta 840
 tcgccggtgc agggaagact accattgcat ctattgttgt cgattacccc caagaagagt 900
 acgagaacga tccaaactgc agcgtcgcct atatttattt caatcatatg cgccttgaaa 960

agcagacaat acgacatctg ctgcccacac tgctgagaca gctatctgaa aacgcaacac 1020
 acctacacag tttaatcaga tatctatacc agaagcatag gaaggaaagg aaaaggccgt 1080
 cagttaatgc tctagtgcaa ggcttgagcg agtcagctgg cctgcaatcg cgacagttca 1140
 ttgtcgttga cgcactggat gagtgacaaa ccgccgatgg atgccgtgag caatttctgt 1200
 ccgttatact accactccaa gcaaaacacg gcttcaatgt actagttacg tcgagagagc 1260
 tgccctgacat cactcgtcga tttagcgcaa gcagagcgct cgaaatacgc gcaagagaga 1320
 aagacatcgc agcatacgtc gacgcggcat atcgaggcca ggggtgccat tactccatgc 1380
 ttaccgagag atgataaaaa tgaaactcgc catgatagcc aatggcaggt atgttgtcta 1440
 tatcaagcat cacaatgctt cccgccatct aacacgagag ttaatatata tctcccaaga 1500
 ctccgcctgg cgcggctgta ttatgacatg ataagcatgc agaagacacc gtggcaaccg 1560
 agaaatgcat aaaaccagg ccatccaag atggcaaggg tacagtcact ggtatatgag 1620
 gcagcttggg cacattatat aaggagaata acagcggcgc ctgtatcaa tccggcgtct 1680
 gctgaaatag cgagaacatt tcttctattg atagcctgtt cgcagcagga actcactgtt 1740
 ccgacagtgc agcgtgcgtt ggcagtcttt actgggttcta ttgatgatgt cgaagaaaat 1800
 gtccctggaac tcgatgacat gatttccgct tgcgggggct cgtagagca gaaaccagta 1860
 agaaaaacag cacagctcga cttgccctca ttcatacatc attgcgtgaa tacctaaatc 1920
 tcacgcaaga tacatgggtt ccagacgcac acggtttgct ggcagccacc tgtcttgaaa 1980
 cccttctttc agacgcttct ccaacgggac cttgtaccag cgagggggga ctcgaggaga 2040
 ggctcacatc ggacgcattc tatgattgtg cggcacgtag ctggaagtat catctgcgaa 2100
 agctggtgta acggactgcg cggatagtgt agcgcagct gcagcccaag caagaaagct 2160
 ggctctatca ctactccagc acaaaatgag aagagcgtgc tgctgaaaaa aggcttttac 2220
 agctgccccaa aaagcatccg gccactacca caatgaacta cctggcgaag tcgcaggcct 2280
 gcatcttgcg cgccgttcgg cgttacggaa tccgtggcaa gatacctaga tagtcgagtc 2340
 agtcgttatg tccgggactc acgctgtcag acacgcaaat gctagctgtg gaggatgtta 2400
 tggagcagtt gcttcgctgt tccttgatgg ggacggagtt gatgtggaag atggggatcg 2460
 cgatggtaga atgctggtcc gcgcaacagc tagcgatggt cattgtgaga ttttgagagg 2520
 tgtggaacag aagcttacgt ttgacagcga gagcggcagt attgtcgttg tgtaggcgga 2580

gaacgaaagc tgcggtggtt aagataggct ttgaggcggc cgtctgtcct gttacctata 2640
 cttagagtgg atgtataaga gacgggtgaa gcgtgtccga cagataacgt ctgaatggcc 2700
 tatgaatttc gggcccgagt tgtagtttta cagttttgtt tggacgaaca aatattgcat 2760
 taatctagtt taaatgttgt tgagctatac atatagcacc tggcctagcc cataacaaga 2820
 taggaggcct ctatgcaagg aataaggatt cgaagcatca agcgcgaagc aatgcaagca 2880
 tgagatggct cttgagcacg atgtgtcag aagaccatac ccttgacctg cgcaatcttg 2940
 ccgacattga tgttccgaat catgatggtc cagacgaagc acagagacat gatacccaca 3000
 ccagcggcca gcatcctcgt ctgagcatac ccatacgcct tctgaatagc aagcctagtg 3060
 ggagtccga cgcatagct cttctgggta gccagtctt catagatcat atcgagatca 3120
 ggcatcgctg actcgggcaa gtaccgaata agcgccttgc ggaatgtatt tgtccagatg 3180
 ctgccggaga tagtggtgcc catggcgccc ccgatagtgc cgaccacatt caagattgcc 3240
 aggaccgtcg caatgtgctg gtggtccacg gcggccagga tagccagctg ctcgatgatg 3300
 atgaagatcg acccgccgat agagatgaag atctggcaca tcaccaagta accaacagtc 3360
 tggttcggac ggcggaagta gatcatcagg ccttgggcca agatgtacag cgggacagca 3420
 atgtaaagaa gccacttgaa gcggcctgtc ttgcggatca ggaacccgac gccgaagaga 3480
 aggacgcccg agacgacgtc gaacgtgttg ctgacgtatc cagattcagc gagtgtcagg 3540
 ttattcacga tctgaaggaa agaggtgaag tagttggccc agcaatagta ggagatctgg 3600
 taggtggcgt cgagcaagca ggcgccgacg acggtgcggt tccacaggaa gctgaatttg 3660
 agcatgggca caggagcaat atagacctcg tgcaggatga agatgcccag cataacaacg 3720
 cccacgacga tcatcgcat gatgtacca gtccccagc cgttgggggc gctgtcggcg 3780
 atatcgaagg ggaggaagaa gatgaccaga cccggcagag aa 3822

<210> 1978
 <211> 2749
 <212> DNA
 <213> Aspergillus nidulans

 <400> 1978

tttttctcct tctgtcttgt ggcagccgcg ggaaaagaaa tccagatcat ggtgggtggag 60
 ttggaggccg attgatcaag gactcttcaa ctcttcgtt tcaactcgctt tgcttcttac 120

ctcaagtgcag aggggtttgtc cagtccagaa caaaagctcc taggggttaaa cgaatccgca 180
 tcctgtcgcc tttccaaggg tcgccttcgg ggcgtaatag acttctgtcg ctcatgggta 240
 gtcagtgttg gcttggatct ggttgtggga ggtaggctga gcatacacgt ttccctgcat 300
 ttgtagtcag cagtgcgaga gatgaatgca cgggtgaagg ctcgatcatgc acgatgccat 360
 catggcattg agtaccgggt ctggccaata tatgcagggc tgttgcccag catcaggcgt 420
 ccagctcgat ctgtcaaagc gtccggaata atacatgaat gtaaccaggt ggggcttctg 480
 ctctgaccc ttagttgttg ctgttgactg ggaaagagaa gttgctccgt gcagtgtgag 540
 ttgtaagata aatatctcca cattcgccgg ccctcaaaag ctaagtacgt tggattgcac 600
 cataatctaat attgtatata tatatatctt ccgtaacaa acgcatctgt ctctcgaaaa 660
 aaaagatcag ttattctgcc ttgcaaaaag gcctttcggc tagagaatag atgcatcgat 720
 caattatctt agtacttga gtgccgaata tgtgaagcct cgaaactcag taggctacat 780
 ctggttgttt actaggtcta catattcgca gatctggacc tcgctttcag atgccacgac 840
 tgcacttgca ttaggtaata gacaatccgt ggaagaagca caaatagggt gatgtacata 900
 cgctataaaa tcacgtgtat cagtgtgag gttaggaatc aagacagtga cccgctacat 960
 acggggacaa aaagcttgct ttgatcttct ctgctggaga acaacgacca gttgaaatac 1020
 atatatgatg tcctgccaga attgtgcgtt gtgccctagc tcgctgtggc caacgaccaa 1080
 agtacatcat agacaaacat tccttgacga ggaaatgtgc cctggagtaa aaccctagtt 1140
 attccaggta tccagcaagc attgagtaat tatatggagt cgtatttcta gggactatcg 1200
 tgataactaa aaggatacct aagtctccgg aatactgtgc attcatagat aaaatgtagt 1260
 aaaacagggc aacataactt gagacttcag cccaaggcta ccgggatttc agtccccctt 1320
 cagctccaat ttccgaaggt aaaggtgcgg gctgttccgg gggatgctac cctgacattc 1380
 agtagtcgac taaccacagt agatccaggg cagccgctcc ttcggagaac ccgtagttgc 1440
 agacactgtt gttagagatt agtacatagt tcatgatggg agtagagata tatctcagct 1500
 tcagcagtca aagctgcggc tctgcagtat agaactgtcc tgattcagga ttgtgatgcc 1560
 tgcttatcca attttgagca atgctcgcg taaattttct aagaatagga acaaagaccg 1620
 ctagaagacg gttaggccgg ctgctcagcc actggtggaa tctgagagcg taccagggaa 1680
 acgacacgta tgcaaatttc agataatacc gtatagagga aattaagtgg tgggtgcctc 1740

agcccaacac ctggtgtttt gaaacggagg tgggacaatc caaagtccac taagccaggc 1800
 agatcctttt aagagctccg ccacaaaatg ccacgatttc tctgattgga gaaataagat 1860
 ctttagggat catgatagcg tctcatttgt ggactctga tatgtattga ccaatagcag 1920
 agaaacacaa ttgagtctgt caatggccac agctatatat gggtgccagt gggatctaag 1980
 ccttttcagg agcgtcggat gaccccgccc cctgaaatat ttctctgttt gtctctgtac 2040
 tgtaacctca aactgacagt acaagtacag gtcaactcac actactatgg gaaacaccga 2100
 agcttcacaa tataccaatg agtgtgcact ccaagggaag acctaactta tgacggaggc 2160
 cagcaaggta gcatttgaga atggcatgcc tgccacatac ttggttttgt cggaagtgca 2220
 gcccggtcaa cgatgctggc tagggatagg aatgcagcct ctcaggaaga ccaagagaac 2280
 caagacagtt caacatttgc tggctgcaga atttcgtatg aagtagatgg atggcatatc 2340
 cccaaatcgt aataatggag tcaatgggca aaggcagctc aggggtcaac aaatgagaag 2400
 agcgcgcaga gttttatact ccctaagaac aacggtgagt gaaagtcgga aggcattgagc 2460
 tctctgagcg ggactcgggt ggcagaacgg gaaagaacta aattaccgcc aggccgcttg 2520
 gtgctcaata agattggctg gggggaagtg ggctctgaaa ttttgacact cagtttttgt 2580
 acccctggcg gtgaggcagc caatttttgt ctgtatactc tgtacaggta tagttagagg 2640
 agcatcgatt tcaggattca ggaatcaaaa ttcaggaaca gttgtagatg aggaatgaat 2700
 tggcgaagtg tgttaattag atagacctga tgatagattt gatagattt 2749

<210> 1979
 <211> 1715
 <212> DNA
 <213> Aspergillus nidulans

<400> 1979

atcaatatac ggagttgatc atggtgggta ggagccgact ataaatgcat ttacctact 60
 gtttactccg ttccacttcg gcttttccga gcgggttata cgactcatta cccttttccg 120
 ccgttctacc aacatctacg gtagtgagcg gattatatta tatcagtcgt tattcatcac 180
 catcatattc catacttcat gcctatcgtc gctactccgt aactatttag cttccccatc 240
 ttccatttga acctccatct gcacctccat ctccatatcc atccatcata aatcatcgca 300
 aggctgctac atcacgtaaa cgtaacagag cggctctgtc tcttctgat ccattcatat 360

cccaccaacc tagcaaccat cccccggacg cgagtcgagc acagctcgtg ttcgcgccag 420
 aacggtggcc agccgggctg ggcgcctttt tttggtatth tgcataatata tgcggcatg 480
 gcattatata taatgccaga tctgtgatta aagagtgact gatgtgctag tgatatactc 540
 gaagtgcact gcacctgtca agtcaagtcg atttgagttg aggcattgtca aggccgatct 600
 gagccagtca tccatcgccg gacgaggtcg gataagagag ggagggggcaa gaagactgcg 660
 tttctctcat ctaccggcgg acaacgatac cctggcgcct cacgccccga cgagccccgc 720
 ggtactcttc atcgtgtcgc ctgtcctcgg agcaggaatc gcccgaagtc tcagagaggt 780
 atccacaccg ggaaccgccg caatcgagct tgacgcggtc tcccttgccg gtgatcccgt 840
 accgctcaca atggcaaaact gaaggcggat cggacatgct ggacagcgag ctgggcgagg 900
 tgcttccgct gctgcgagaa gacaacgacg aaccgacaga ggaaggcggc gagttggaca 960
 ggtcgtctga accgtcgtcc gagaggcggg acgacccaaa gcggcgagaa agctcatcca 1020
 tggcgtgggt cggggcaaag tggcctcgc ggatctggcg cgacgcgtac ggcttggag 1080
 gcttaggggtg gtggatcttt gagggcgaga ggcgcggcc ggtcgcgata tctgaggagc 1140
 cacggcgggg acggcgcgcg gacgtgctgg actctttgcc tccggggaca tcgaggatgt 1200
 tgagcttgcg gttggttgtt ggctcgacgg ttagtctgc tgcggggtcg tgcgagacgt 1260
 ggtagccgtc gaggatgtac tgttctcgat tagcatatac atttatctca agatataccc 1320
 tctgggaaaa gccatacgt agtaccagta ccgaccacca agcttcagca tcgagggtctg 1380
 gaagcggaat ttgccaccc aggagccggg cttggacgag tcgcgagaca aggggatctg 1440
 gcgagagtag ttgtcccagg aaccaagcag atgcacggtc ttgacgttg acgagggtgcg 1500
 caagttgaac ttgagctgga cggcggacat ggcgattaaa ttaaagcgg atatacagtag 1560
 ataagtgaat cgtaaacaa cacaaggtg tcaggctctg cgtagatgga cggtttaaaa 1620
 cgactaccag agccgggtaa acgtccactt ctgttgatgt tgggttgggt ggagagcaa 1680
 caggtcgcag cgcaacgaag gatccagtcc tgaca 1715

<210> 1980
 <211> 3006
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1980

cttgatactg gggttatgcmc ctatgccctt tgatggaatc ctcctaggga gccgcatgat 60
 ggtggctcgt gaggcgaaga catcgttcgc tgtaaagcag cttatagtcg aagcccccg 120
 agtcaaggat gatgggaatg acaacgggtgc ttgggcaaaa tgtgaacatg acgcagttgg 180
 cgggtgttatc tcgggtcactt cagagatggg tcaaccaatc catgtgcttg cgactcgagc 240
 aatgcgtttg tggaggaggt tcgatgaccg gttctttctca attcgggacc ctaaacgggt 300
 aaaagctgca ttaaaacaac atcgtgttga aatcattaat agactgaata acgactttgc 360
 ccggccgtgg ttgcgcgaaa cagacagcag taaaccaaca gagattgagg agctgagcta 420
 taggcaagtc ttacgccgtc tctgccagct tacatatgtg cagcatcagg cacgctggat 480
 cgattcttcc tacctcagct tgggtgatga ctttctccgt cttgcacaag gacgcctggg 540
 ctcaggttca gaagctgaat tacgctttct ttcttgcaac actcccatag agctggaagc 600
 gtcgtttgac gcagcctacg gcgtgcaagg cgaccagata ctttatccgg aagatgtaag 660
 ccttctcatc aatcttttcc gccgacaagg tcagaagccg gtgcccttta ttccgcggct 720
 cgatgcagat ttccagacat ggtttaagaa agattctcta tggcagtctg aagatgtaga 780
 cgctgtggtg gaccaggatg cacaacgtgt ttgcatcata caaggcctg tagccgtgcm 840
 tcattcgcga gtatgcgatg agccagttaa agacattctt gatgggatta ctgaggcgca 900
 tttgaaaatg atgctcaagg aggcagcttc tgacaacggt tacacttggg ctaaccagcm 960
 cgatgagaaa ggcaatcgct tacctggcat tgaacaagc caggaaggct cgctgtgccg 1020
 gtattatctt gtcggacctt cctcccatc gacggaggca atagtcgaac accttggttg 1080
 tgagtgcgcc tggggctatg ctgccctcag ccaaaaaaag gttgtttttg ggcaaatcm 1140
 cgctccaaat ccgattcggg acgctttcaa gccagatatt ggagacgtca ttgaggcaaa 1200
 atatatggat ggctgccttc gtgaaatcac gttgtatcat tccttgcmgc ggcaaggaga 1260
 cccagggcmg atacgtgcag cactgggact gatacatcta gacggcaata aggtatcagt 1320
 gacattgcta actcgctcaa agggcaaacg acccgcmgtg gagtttaaga tgggaattgct 1380
 cggaggaacc atgggccctt taattctcaa aatgcaccgg actgattact tggacagcmg 1440
 gaggcgcctg tacacggacc tgtggattgg tcgagacctt cctagcccaa cttctgcmg 1500
 tctgaattca gaatttactg gcatcgagt gacaataaca gctgaggacg tgaatacgtt 1560
 cctggctatt gtcggatcaag ctggcccmg cgttgtcmga gcttggggga cacggggcm 1620

agttgtgcc a attgattatg ctgtcgttat agcttggact gcactcaca agccaataact 1680
 gctcgaagca cttgatgagg accctcttcg actcctccac cagtctgctt caactcgttt 1740
 cgtgcctggc atccgcccgt tgcattgtgg agatacagtg acaacttcgt cgcgcataac 1800
 cgagcgcaca atcaccacca taggccagcg agttgagatt tctgcagagc tcctcagaga 1860
 gggaaaaccg gtggttcgac tccaaacgac atttataatc cagcggcggc cagaggagag 1920
 cgtatcccag cagcagtttc gttgcgttga agagccagat atggtcatac gtgttgactc 1980
 ccacacaaaa ttaagagtct taatgagtcg aaaatggttc ttgctagatg gaccttgctc 2040
 agatcttatt gggaagatat tgatattcca actgcattcg caaacgggat tcgacgccgc 2100
 aggagcacct gcttccctgc aagtttctgg atcagtttca ctggcccctt ctgatacctc 2160
 agttgtctgt gtctcttcgg tcggcaccgg gattggacgt gtatacatgg aggaggaggg 2220
 gtttgagcgg aatccagtc tggattttct gaaccgccac ggtgcacccc gaggccagag 2280
 acagccgctc ccacgggcag gctggactgg cgatgacgct gcattctatat cgtttactgc 2340
 ccctgcccc aagcagggtt atgcaatggt atctggagat acaaatccta ttcacgtttg 2400
 ccctctgttc tctcgttttg ccgggctggg tcagcctgtt gtgcattggc tgcacctgct 2460
 tgccaccgtg cggcggattc tggagtggat cattggcgac aatgaacgga cccgtttctg 2520
 cagctgggag ccctccttcg atggacttgt ccgggcaaac gaccggttgc gaatggagat 2580
 acaacacttt gcaatggcgg acgggtgtat ggtgggccat gtaagagtgc ttaaggagag 2640
 tacgggtgag caagtaatgc atgcagaggc ggtactcgag caggcccaga caacatacgt 2700
 ctttaccggc cagggcacgc aggagagagg aatggggatg gccttgatg atacgaatgc 2760
 tgctgcacga gcagtatggg acagagcaga acggcacttt agatcccaat atggtgcggt 2820
 acctcctcaa cccgagctcg acagaacggg caactctaata accgattaca ggcatttcgc 2880
 tccttcacat agtccgtgag aatcctacga gccttactgt caactttggc agtcggcggtg 2940
 gtcggcaaata ccgtgatatt tatctttcta tgtccgactc tgatccatct atgctgcctg 3000
 gcttga 3006

<210> 1981
 <211> 1488
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1981

tgcgcccat tgcgagcttc ttctcgggtc ttctcgcgaa tctgcccgtc gctctggccc 60
cggaatggg tctcaacgcg tactttgcct atactgtcgt tggatcatcat ggtaccggat 120
tgatccccta cagtcttgca gtgactgcgg ttttcgtcga gggctggatt ttctcgggtt 180
tgactttact cggatatccgg cagtggcttg ctctgtccat tcccgcctcg attaaactcg 240
cgaccggcgc cggatttga ttgtacctga cgctgatcgg tctcagctat agtgccggtc 300
ttggagttgt gcaggggggt acaagcagcc ctattcagtt agccggctgc gcgtcagata 360
cgttcggcga cgacgggttg tgtccttcgt ccgaaaaaat gcgcaatccc acaatgtgga 420
ttggtatctt ttgcggcgggt gttttcactg tcttcttgat gatgtatagg gtcaaggggtg 480
cagtgattgc tggtatcctg ctgtctcga tcatctcatg gccgcgtccg accccagtta 540
cctatttccc ccacacagaa accggtgaca gctcgtttga tttcttcaag aaagtcgtca 600
ccttccatcc gattcagcat actctgggtgg cgcaggaatg gaatatctcc agtaatgggtg 660
gacagtttgg cctcgcattg atcacgttct tggatgcta tctagctcgt cggatatatac 720
agagccctgc taactgggat agtacgtcga cattctcgac gctacgggta cattatactc 780
aatggccaag ttgctggcg ccatggacga gcgcaccag gattttgaag gcagtgctat 840
ggcttatgta ggctctcac accctctcgt gaaaacatcg ctaactatag tagatggctg 900
acgcaatctg catttccatc ggttctttgt tcggttctcc gcctgttaca gcattcgtcg 960
agagcgggtc tggtatctcg gaaggtggaa agaccgggtc gacatcatgt atgaccggta 1020
tctgcttctt catcgccgtc ttctttgcgc ctatcttcac aacgattcat ccatgggcca 1080
ctggcagaac attggtcaat gtcggctcca taataatgca tgcgacactc gagatcaact 1140
gacggtttct tggagaccgc gttcccgcgt tcttgacgat ttcgctcatg ccattcacct 1200
acagcattgc cgacggcctg atcgccggtg tcttgagcta catcctcatc aacgtagggtg 1260
tgtggattgt tgccaagttg actggaggcc ggattttctc tcctaaccgc gaggaggagc 1320
acgagccgtg gacctggaca atcccagcag gatttttccc gccatggctg gtgcgtgcgg 1380
ttcatgggaa gaagcacttc tggcgggctg aagatgatgc caatgaaata agccttggcg 1440
tcaagcctca cgggtcgtc tcgtcgcagg atccgaggtt tetataag 1488

<210> 1982

<211> 1502
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1982

```

tgagatggag gcacctcggc tacctggggt tactaaaacg atgatcatgg caagttcaga 60
ttgtcacctg gaaagaagat ctcagctcaa ctctagatat catcgacttg gaggtggcgc 120
tctctgccct gccaccggtt tgggtgtcag ggcgggggtg ccagctaacc agtaaataaa 180
gagatcggca cagccttgcc aaaggtggga aagattccca cctggggccac gctaagttgc 240
tgtcaggat accaagcagt catagttggt gctcagttgc tgcggctgag ttgttaggca 300
tccacagttt catcccctag cgccgtagcg agatggccgt gcagcaggat acgcattgcc 360
gtaatgctca atcccggcgg atatttccgt tgtcgtgtct tttttggaga agtgacaaa 420
aatggaccac agataaacia aaatctgcat agataaggta cgggttccgt ttcggctgca 480
tgagttgttc gcaatggacg ttaatggata tatacgaaaa aacatgtagt tgcttactga 540
gcagatctgg ataaggaatg gccgaaccgc ttcattaagc aactgcaact ggctaataga 600
ccaattgggt ctgcgaggct gggattgcat gttacaaaag gaacgcagga tatcccatc 660
gtgatcaagg ggatggaatc agttggcaga ggcacgccgt gcgactgcac cagcaacggg 720
gaacggcctc cttgcagcct tcaagaaaca tcatattggg aaatatcctg gcaagcctct 780
caagtctgta gatacccatg acaccacgaa aatcgtgata aatgcctcga gctcaaggat 840
ggcaagctga caacggagac gagagtgaag gagagaggca cagtcaccaa caactcgctc 900
caaatcaacc gcacgcagag acaatgtccg ttcgcttaac gcatgctcac tgtccgtatc 960
gacggccagg atgaccgtga actataggac cacgcaagtg acactcatgc ggctgttca 1020
agagaatagg cgctatttaa ggctggctcg tcaagggcag gacgtatgac tgctagcatt 1080
gattggaggt ccagtttccg ctcacgcagc agggcaaaga gcagcagcaa cagggggccag 1140
accaggccag atggcattgg cacggccaca gctccccgga aaataggacg agatcattga 1200
gattcctcgt tgtcagcaag ggatagagcg caatgcgcct gagaatgccc tctccggact 1260
ttgtgacctg gcttttctga acccttgacg cgggttaggg ccaatctccg gtttcggggg 1320
cattgataat aaagtatacg ctgccccgtc ggtttagatg acgcagaacc gacctacag 1380
cttttgaaaa acgaaaagat tcaaattcat attccgttca aatttggtc attttttatt 1440

```

aagtcctcaa ttgagtcctt aacccctgaa tggcttgaca cagcagatga taggtaaagc 1500
ag 1502

<210> 1983
<211> 2257
<212> DNA
<213> *Aspergillus nidulans*

<400> 1983

ctggttgtat tagggtcagc tggttttgac cgaagaagcc attttcactt taagtgggtga 60
gttaagataa actcaagctc gctgaggctg attgtttgat ttataccagc ccctgaggta 120
cggatgtggg atagtgggtc aaagcacata tacttcaaac cgatgactca ctgctttagg 180
agctacaggg tggaaatgcg gccgtttatg gcgcggtaac cgatattttc gacgtcggta 240
tgcaagtctt cacattctat atataagaaa ccttgcgttt ttccttgcca tgcgcaaccc 300
gggtaaatgc gtcaacacaa aggtctatac gctacctaata ataggtagaa tcagatacaa 360
gactatattt cacatttcat atgacattga ccttgaccaa ggacagaaca ataccattat 420
ctttattgga cgcagatccg ttgccgccgg cagggtaccgt cggcattacc cgtcagcctt 480
ccgttcaggg cacgcttcaa gtccttggcg aatatcaaga ccagatataa atttgcaatt 540
ctagtatttg tgttctcctg ccagagaatg tagctataca cattgtttgt aagagtgccg 600
atgtcttgat tttagccccg aaggcgttca ggtatacttg atagtcattg ttcattgggt 660
gcaagtcttc gatgccgcca taacatatct tcacctatat ctgtctcctt cataatcagc 720
ggcctgaaag cttgcttgga tatcaaatga aggtactctg tcaggatgta tttatata 780
tctagttata cacatttact ggctctgcaa tcggagggaa aagcatgtag atcggcactt 840
tattttgctg gccagtggtg tctgccaggt gtccagacgc aggcgggtgt tacctgaaat 900
tcagtcacgt cagataagga tcgtgggtga attaaatctg gcgtgattga gctatagcat 960
gaactacacc actagcggtc aatggggctc atcggttact tcgagactgc atatacctgc 1020
gaacatgggt aggccgccat acacgaatgc cgggtatcca gcttaacgtc accatga 1080
gaactcgccg ggctgggcca gataccgggt agcctgcccc tgctgc accatctcgggt 1140
actctggaca ttggttctgg tacgggtgtc cgtccagtag catccagaaa gcggggactc 1200
atttcggcgt tagacctgca ttgccccatt gcagttgctg tattgaatgc ccgacaacgc 1260

ctggtgacta acgtcctctt ggcgcagacc agccgcccgg gccagagctg ggctagaacg 1320
 gtataataga aatactccta gtagttatgc aggtgttgct tgatgaaaat caacagacat 1380
 cagtcctcgg tgggtttaca ttttagctgg aaacattatt ccgttccaga aggagcagaa 1440
 taggattagc catgttgctg cttacattta gctcagacct cgtgcttttag agctgctcac 1500
 ctacagaatg gcggagagca gattcatccc gagtatgcct aacacgacat taagcagcct 1560
 ataagcggcc attcagccat tgtggctgag ccagaccact acctgtcgta cggtatgaaa 1620
 ggtgcgagct ccaagatacc caggtgcgct agttacccta gtataggcac agtccagaaa 1680
 aaaaagaccc ccgcacgtca agccactgct gcattgtata aatcagggtgc tattatccgt 1740
 aaaccttgga ttatgacatc attaattctat ttttcagag agacctacct attcaggctg 1800
 ggccaagggc gtttggccag tcaatcttcc ccggattcgg gctccggtgg ggactccgca 1860
 ggtattgtgg ggagagctgg agtagaaatc cccttaattt gcccgaagg ttgaggaggt 1920
 cctccgattt ctcggaagca ggtaagagca aatccttaaa tgctggctct cctcgggtcg 1980
 gtgtgcctta gctcaaggag ttggagtggg taatcctagt gctaccatca ccatcatggt 2040
 ccgctcatcg gctacgggtg ccgcagccac cggcatgggc ctgttgacgg ccgccacca 2100
 tggtcattg gcgattgcgc aggtaccac tggttccaat ggtaagcgca ctccgtctct 2160
 ataaagtata cggctagtga gttgaaacag cccaacaatc ccaagcggtc gtcgtcgacg 2220
 ggacgaactt cgcgcgcac gcagccaaca tgtccac 2257

<210> 1984
 <211> 2572
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1984
 gatcttggtg ttgaggagcc gccacctgat tcaaagatag gaagttagaa cagcggcttg 60
 gtcgctattt gcgttcttca ggactggcaa gccaaaggcg aacgcgacat tgactcttcg 120
 gcgtacgca tatccacgct tgaggctgcg ctggggctcg tcttcagcac gtcgaccctc 180
 gaggggtggag ctcttaaagc cgtgaacttg ggctgggatg cggataccgt ggggtgccgtc 240
 tatgggggct tagtgggcgc attctatgga ctggaggcga taccaactcg atggattgac 300
 ggactacaga aaaggaagt tatcgaagag attgtagatc gtcttgccaa actcggagaa 360

acaacttgtc tcaacatgac atcgtgacca gaaaagcgac atgttcagcc aaatatgatg 420
 gtgtttatgg atagagaacg agttcagtgt tgcggatgct ataaggccaa ttaatgaaac 480
 aagcccgcac caaagggagc atcttatcta gtttgccgtg ccgtagatcg atagttaaccg 540
 tgccagcctt tgaataatct attttatagt tctatgcaac catcaaatca actatcattc 600
 caagatgtaa ccaactagca caggaataaa catatcaatg cccacacaaa gcctgggtgct 660
 ccggcccata ccgattgccc gcaggttttg cagcgtcaat aatcctcctc atctccttcc 720
 actcttcccc actaaactca atctccctgg aggcccagtt ctcttctaaa cgcttcgcct 780
 tggtcgtccc cggaattgca atcatcccct gcgcggcgac ccaagcaagc gcaatctgcg 840
 agatcgagac acccttcttc agcgcaagct tcttggtctc ctcgactatg gcacggtttt 900
 tgtagaagtt ctgccttga aacttggggc ctacacaagt ttatccgtta gttgatgagt 960
 tccttttggg cagggtgctcg gattaggtgt ttcgtaacgt actcctccgt cggaaatcat 1020
 ccggcgcaaa atcgtcaggt gtctttagt cgaagttatc gacgagccag ccgtggccta 1080
 gcggactgta ggcaatgtag gcgatgccta gctcctttgc tgtgtcgata agaccgtctg 1140
 tttcatggat ggtttcgaag gtggagtatt cagcttgat ggcgtcgatt ctggcgacta 1200
 tcacaaacca gtcagcacca agaagccaag gtgggacgtt tgaggggtgc atacttgagt 1260
 tcgcctttcg cagggtcgca gctgagcatt cagagaggcc aatgtacttg gtctttccgg 1320
 ccttgcggat ctcatccagg gccgggattg actcttcgag gggcgatatct gttacattat 1380
 ggtagatga gtgcttcaat ggccatttat tccggtctat ggcgtactag ggtcaatccg 1440
 gtggagatag tagagatcag gcgtgaaatc aaggcgttta atggttccct cgatgtactc 1500
 cttaatatgg gtagcagagt tggtgacgcc gcccttgcca aagacatcga agccacactt 1560
 agaggcgact ggtgttggtg ttaacttggg acatagagag aagcctcaat tcgcaaaaaa 1620
 agaggggatt ttaccaaaca ctttatcgcg aacgttatgc tttttgatga atgcgccaag 1680
 aagcttctcg tttataccgg cttggtaaac aaccttcct tccgatcaga atccgtccta 1740
 gtttcagtga ctcgagtcag cttacagcgg tatcccagaa tgtacatccc agctcgatgg 1800
 ccttcagcag cacgggctct gcctcttcca agctgaggtt tgagcccaac ccgaaactca 1860
 gacccatagc cccgaagccg ggagatggaa catggatatc agcaaaaggg agtggtttga 1920
 ccatcgtgat atccgtactt gcaataatgt tcttgaggat tgtctagtgg attgtttggg 1980

aggcgagtc cc agggctttaa atattgtacc accgctctat caagtctcgg atatactacg 2040
 gagaaatgcc tgtggagaac tggctgaagc atccatcacg accccttatg tccaaagccc 2100
 gaaaatatag tccggagctg tcatcaagat gggccgtagg aactggctg tccacatct 2160
 gaagaaagcg aagctgagat tataatctca aaaccatgat catgctagtt cgttaccac 2220
 tggcaagaca atcgtgaact taccgaagt tttggctccg cgctaattgc tgacacttgc 2280
 agatcattga gactcgagga ttggatgatg aagtatagac ctaaaagatt ctggctcagc 2340
 gtgtacaagg actaacatta cctcctgctg gaagcaactt cgtctacagc attgggccc 2400
 catcatttca tgtactaatg acataataat cagtcattta ccagtagaag attgggtgca 2460
 tgtgagtagc actatactgg ggctaaaatc cagctaaact aagcgacaat gcttgacagg 2520
 gagcagcacc tgtccactat gtagagattg ttacaatccc ttgagcgcaa ca 2572

<210> 1985
 <211> 2480
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1985

actgaattaa tgaaacagta cagtaccgtg accatttttt cttgctttat caacacgatt 60
 tccccatgca ataagcataa aatgatgctc tatcgcttga aacgatattt tggacgtcgg 120
 ggatgcccga gcacaaggca tggaagagac cttgcgcggg ctctagaatt gaccgctctt 180
 caaggcagtt attcgtagtg ctgatacatt tgagggtcgg ttaaaaccgg tgacgataaa 240
 tgtgcgaccc gcgcaggcag aatttaactg cagaaagcgc cgcttttttag ttgctgtggc 300
 tgatattgaa gcaattatac ttgggctttg gctcgatctc tctcagtggg attatatcta 360
 atagtgcag agttaaatat tagtcaccta ataactcgag atgcttaccg cagaagcttt 420
 tcaatcaagt caacgtgtgt catgaccatt cggcgacagc aatagcgctt gcacccgagt 480
 tgatccatag cgtctctaga agtccgcaag tttagacagg taatataaga gcccatggaa 540
 atactgaccc atcgggggata ccatcgtcaa gaagctgtag gtatcgctcc cagagatcgc 600
 caacaacct aacatgatgg catgtcagta ataagtccgg cacatgatgt gagtcacaga 660
 accttgccgc atgagaagca ccgaaccgga attatcatcg tgttgaacaa aggagtacaa 720
 gaacgagaat tatcaagcga tttgagtcga tggggccgtg gaaatgatgc tcagaatgct 780

tctcgaaggc ggtgtcctgt gtacctttta tgcaagggcc cacttgcgga aggccactaa 840
cctaggtcgg attggcgctt acttgtcgcc cagtaagaat tgagtgcagc agttaacctc 900
cagactcttt tgacttaaag agattttttc ttaatacga gcaaagctag ggcttgagca 960
tatcatcaga ttcacatacc gtgcctggag tgctggtaa gttcagcttc tcgactttag 1020
gcacagtatt gttcacactt cattatgtcg aaaaagaca attcaagtcc ggtgcggcct 1080
acgaaaagat cacgggcaag tgggtgcagg cttgacaacg taaaatccaa aggcgatcgg 1140
gtaaaacgac gtcgaacctc cacagacaac gaaacagga aaacctgaa agattcgaat 1200
gccttgga aa tttcacaaca attcattgat gcaaccgaag ctccctcaga ggctccaact 1260
tggactttgt cccggcccat cgccggccat ttcacaaaca cagatcctgt tcttacgcct 1320
gacgagcagt atgtattccc tcaattctat gactttactg ttgattaatt ctgatataga 1380
tatctttttc tcggtgtcga aacctcggtc cacgtttatt cagttgctac ttctcgtctc 1440
ctccgtgtcc tagaagtagg ctccggcgat agcgtggctg gatatagact ttcctccaca 1500
aactatgacc gtcttcatat cattacatta tctgggtccg tgagcgaatg ggattggcct 1560
tccaacaaac aagttgctca ttggaacacg gcaccccgga ttatcgagt tgatattgta 1620
tacgattctt cctccggtac attattttca ctacggaagc gcaaggatgg aaagagagaa 1680
ttagcggtea cgccactgaa taatgagaag ccacagagca ctgtcatact cgagaccaat 1740
gccaaaatcg acaagttcag agtaagcgat gactttctgg tgggtgtacg tgggtgccagt 1800
gttttttttg gtacttcttg ctccactcaa gggtctgagt cgcacaagtt cgtgtggaag 1860
gaggteaac tagcttccac tgttacctgt gttgatatat ggggtactgg accggagttt 1920
gacctgcac ttgggggtgc tgacggttct gttttgatat atcatattca aggttccacg 1980
attaagaacc caccagcg actacattgg catcgagacc ctgtcacagc cgttcgctgg 2040
tcaaaagatg gttggtcgcc tcttacaatt cacagaatta aaaaagcta actgaaataa 2100
aggcaattac gtcctatcag gcggtcacga gtcagtcag gtactttggc aactagatac 2160
cagccgaaag cagttcctcc ctcatctgtc ttctccaatt tgcagcatag ttgtttccga 2220
aagtggtaac tcctacgttg ttaggctggc cgataatcgt gttgtggtct tgtcggcaag 2280
ggaattgcag cccatttcta caataactag tctgcaagtc gtcggtttag caaacacatg 2340
caagacagtt gcagctgtgc acccgagca tccagagcaa cttctaagtc ctccaccagc 2400

ttctcgccaa ctacacacaaa gaaaaattac ttcagcaagt gcttctgttc tgcagacaaa 2460
 tgacactcgg tcatgggtcc 2480

<210> 1986
 <211> 1524
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1986

aagctggcga aaacggccag gtgtgctcaa aaagtaacac acataaccac tacaacatgc 60
 ttgcaatcga aaagccggaa ttggccatgc ccaagcccca aagtggggcg gagggttgtc 120
 attccctgga taaagcgggc atccggctgg gttctttctt tgggtttgca cagcagttcg 180
 ccacaagtcg ttgcctagcc gtcggtcttt accagtaatt tgagttcgcc aaagaatcag 240
 ccagaccggg tcatctagct aacaataagt gatcttcata atcttctaag agacctatat 300
 taggcactct tctaattggg tagtcccgtg gaaaacttcc cacactcca tgggaagtcc 360
 catgggacta aaaattccta tccattgttt agtcaatttg atccccctga ggttgatgata 420
 aaaaaaatat tctacttata catagatcta tatccaatat atacttttct taacctcccc 480
 ctacataatt ctactacttc agaaggtaaa aaagagaatt cgataatata tactactcat 540
 acggttgta atccgcaccg caaccgcag cgggtgcggtg cgggtgcgggt tgcgggttct 600
 gatgtctgta atacaaacct ataatatcta gacttggtta acccaacca cgaaaccgc 660
 cccaactcgg cccgaccgc caagaaatgg gttgggttag accttcta atccattgg 720
 gttttggata tttttggctg ccccaaagcc cggcggagca acccgctggg ttgccaagat 780
 atctgaatag gtatattact gtatttagat tatatttgct tacttagata gttataatac 840
 agtatattaa tacagtattt tattaactat gtaaatcact tcttactaaa gtaatgacat 900
 gcatagctgg gttattctgg gtcatttggg ttgggttaga attatttgct aaacccatgg 960
 gcggtttact gttcaggtaa accaccccaa aaaccgcgtg ggcggatcag ctaggcctga 1020
 aattcccgcc ccaaccgcgt gtttaaacia gtctactgtt ggctattgag gtggttgcta 1080
 gcgtcgattt gattatgtga ttgatctctg taatgagcga ctgcattgaa ggtattgatc 1140
 ttataactat gatctgtata gctaatttat acacttccaa aggcttcaaa agaattgtct 1200
 cgatatcagt agataattaa gttaatatat ggttgattgc gatccgtcta tggcgggtgtg 1260

atcgcatatg attggacgag cgaggtgctg gatattgatt aatgaagagg tcttctctgg 1320
 tcgatatcta cgtatatagt ataaatttag gtatattaaa gcaacgtgct gctttgcgta 1380
 ttaatataat ctctcttttt ttatacctgt acagccagca ggagccgacc tttcttctca 1440
 tgacaatttt ggctttgact aacgcgaatc ggggtattgt ggtctgtgga agaagatgac 1500
 cgcgtagcat gtaaaaaatg gtgg 1524

<210> 1987
 <211> 3597
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1987

gcgcctaata acgcaaaccg aacgtgcttc ttctcgacga ggcgacgagc gcgctggaca 60
 cggagtcgga gaagctgggt caggggtgcgc taactgaggc agcagcggag cagaatagga 120
 ttacggttgc ggtggcgcat tggctttcga cggtcctga tgcggactgt atctttgtct 180
 ttcatgctgg tagaattgtg gagtttgggt cgcatacgca gctgcttagc cggggtggaa 240
 tgtatgctgc gatgtgcgag gccagaagct ggatgtgaat ggcactgtgt cagcatgatt 300
 cagcgagagc gggagtcgag gttgctgatg aagttgttgg gtgcgctcaa tgtgtcgcga 360
 ccagcgccaa caatgcttga gagattatac aatgtattta tatagagcaa tagactgggt 420
 tcgatctgtg aggcgagtat tggattgggt ggggcgcatg agaaccataa aaaaagggga 480
 aaagactttg tagagaggag agaggagaga gtgttcttga aaacattgct tttgggtggaa 540
 ttgtacattc tacacctgta cgccttctat atgtgaaggc tataaactcg tagggatatca 600
 ttttgctacc tgccctgct aataattgga cgttatattt tcctgatggt ttgtggtaaa 660
 attttcgatt gaccacgctt gctcgctagc aagggttaga cactgatatg aaaggctccc 720
 tcttcagaag ctgactgtaa gttccagat ttctgtcgcc tgctactgta ttgccaattc 780
 cagatattta gcactacttt gaccctttgc gttgogttca ttttgagcc tctctaactc 840
 tcggcttgcg aggccatgac ctccaagtgc tcttcatagc aaccgaggag agtgagtgca 900
 atcgaacttt ctcttcatat catcctcccc attatatata ccatgtaaat caacttgatc 960
 ctcatccaaa tccgtcatct ctctcctgc ggagtggacg agtggcaaaa gttgcgagtg 1020
 ttttaggtca gatgctgaac aagaaagttg agtctttgggt acatgggtgct taacagtata 1080

tactgcacta caagctactc ctctctata taccaatagg agcacacgga acccttagcc 1140
cagtcgttgc tataagctac ttgaccgtgt acttatacgt agtagaagtc acgtgtcatc 1200
cttatcagtg caaggtggac cgcagacact tccctttcta ttctcattcc ctttccctcc 1260
gcacgtcgac gctaccttat cataaaatcg gtgttccttc gtcaggacat aaagctaccc 1320
aaacgtatcc aaaatggccg acaagctgcg cacccttcaa aatctcgaag cgcaacaagc 1380
gcgctacatt ggcaactggac atgccgacac aaccaagcac gagtttctga acaacatcgt 1440
gcgcgatagc tatgccagct atatcgggca cccaccgctg ctaggttaca tggcgtggg 1500
aatgggagag agccgcgaaa aggtgcgtgc tatgatggtc gagaagatgg tcaggggggt 1560
tggggctccg cgggaggtta gtatttctt tttcttctcc tcttctctt ttgttcggga 1620
ggattcgcgg atcttgatgg ggctgacgct gtgaactgta gacgcaagag tagcgtctg 1680
cgacgtgaaa cgaagggttt tgatatccgg caggacactt tcccgcgccg tgagaagcga 1740
tatggtcggt tcaatcaatg agactaaacg aggtgttaac gcggttgaat gcgcgtatga 1800
tttgccataa gagagaggcg aagactcggc cgacttgatg cccctgggtc gaaatcggcg 1860
cgggcagggg ttggagcgac tgcttcgatt cgattacagt gatagtcgct atgatccacg 1920
gtacaattgt gtgagacgtc ggatatgcta caacacgtgg aacggacagt atctggggcc 1980
gtaaggggtc tattgtggta agagatgata tgaggcatgc acgttacgcg gcgtctatgg 2040
cgttattcta cgggcatatt ttggacggac aaaatatcgg tagataaacc tcccagaggt 2100
tctgagttcg ttcctatcat tataataata tacagcatgt atgctcaatt caaccctgac 2160
catatacata ttttgcgcat ttcattactt tgtattccca tctatcgctg ccgcatttcc 2220
ctgcctcgcc aatttcgtgt tctccgctg caacgccttg ataaggctaa gccactgctt 2280
ccgctcacc cttcaatctct cgcactctt cttcaggtgc tcaacctccc tcttcaaaac 2340
ttctgtctcg tcgcgcgac gtgccttata ctcttctcc gcttcttcc gatgcctcg 2400
ctcaatctta gccgcctctt tgatctgggt cgcctcaatc ttggaaaggc gacggacgag 2460
cttggttct tcccgaaga ggccggacga cgtttatgca tctgtggcgt atcggtatgc 2520
ggggccggcg tgccagagcg gctacggtt ttggtggcgc tgctgcttga tgtgctgtcg 2580
gaggtgagtt tgttggtgct gctgttggga cttattggac tgccaggctt gtctactgag 2640
gcccgcgag atgttgtctc tttcttgact tcttgctcat ctggggcacg caggccgaga 2700

gcgtggatgt ctgacgagac gagctggatc tgggcctcga cgctgcgttt ctctggggcc 2760
 agtttggcga gttgccgctc atgagaggag agcttgccct tgcgatttcc ttgacgcatt 2820
 tcgtctgctg agcattctca ctttccctct tatcactcct atccatctct ccttactcaa 2880
 tctctaaacc ccttcttcac actcatacac atctccatgt actcaatacc atactacttc 2940
 ctttccctcc tcacacctct ctatcctccc tctctcctct ttctccatta acttccattt 3000
 atcattccca ttacacttct attcttccaa catacttcat tccactcttc cctccctacc 3060
 ttctcttcta aattattata acaatcctcc acctcaactc cctcaatcac actctcctct 3120
 accacccttc tctcataact actatacccc ctcttcactt atcactttta cctccttcca 3180
 ttctacttct tccccatccc atcatacccc tttcctttcc tccctactct cctccactaa 3240
 tctaccttct tccactcttc tatctctacc tcaattattt acatatcctc ctatcattaa 3300
 tacttatctt tcaattcaat ttatacacaa taatttcata tctcttttat cctcatatac 3360
 tcatcttttc ttcactcttc ccaccccatc cctttcctca caccctcttt tctcctattc 3420
 ctactcaact tacctcaact cccatccttc cactccactt cttccttctt acttcaaacc 3480
 ctctctatca cactccttac ctatacaact ctacttttct cactaccccc tcttcttact 3540
 catccatccc actctatttt cactatttcc ctctttcaaa cctcctacct ctctttc 3597

<210> 1988
 <211> 3040
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1988

cagcttataa aaaaaacaca gggctggcat agcgaaattg atgtcgctca gtggatgaaa 60
 tccaatccgg acgttaatca gctgctttac gagtgatagg gtacctacc acaggaagtc 120
 ataatgataa taggccgatg gagagtcgta gcgataggat gatctgatcg agtgaactca 180
 tacatacgac cgcgaggtgg tcattccagc taagccaccc agtgaaaagc aaagaggcac 240
 caggagacta tcacgacggc tgattaatgt cgcagtctag atagagtatg ctcatcttcg 300
 aggctcaagg gattgactga ctgggctccc ttcataatca tcacggagtt gtctacagac 360
 agttagtaaa ccagtagtac ttcaatgatc cacattatct atattgtacg gagtagatga 420
 tgggtccctt cgcttaagat taatcctaaa cctggcatcg aacacctact gcatactatc 480

acttcatagc ggcgtaatcg aactgatcc cgcttgctct gcaagcgagc tagcgggctg 540
 ggggtaatc tatttgctg gggcccatag aagcacgcag cgtaccgtt gctgtactcg 600
 ttaacactat taaccgtcaa gccttatttg tatccataac cgatggaata ttgctgtggg 660
 cgggtcgagt catgactcta ccgacatgac aggccaagac tatgaaattc ggaagcgata 720
 ttagtcgga ctacgggagg acggggaaga tgcctatcgg ggtaggaatg tactttattc 780
 gggacgactg caccgacccc cttctccaat attctgatat ccagccgaca gaaaatggca 840
 ttctggcatc tgccgagtat gaagtcgata cggctatttc caagttccaa acgatagtgg 900
 gagatgcggc cagggcatgg cgtaccgtat ggctacgcct atacatagat gatcgacaaa 960
 gtcaaggttt attcgtatcg agattacaca cgtactgtgt acagtgtcat gcctcgttag 1020
 gccggtttaa ttgcgcgtga atttggcgat ggctaagtgt atgcgttgat agaagctaca 1080
 ccgtaagtga gatggatgct ttggatgtct tgatgatctt ttgcattttg cattctgcat 1140
 ttgaatttga ggacagtacg tatagtactt cgtcgtcgta gcaggaatga accgtaccgg 1200
 aaattaccag aaataccaat accagcctgc attagtgcgt cggctttcgt gccaaacccg 1260
 ggaagggccg aaggatgcct gcgacggggg cgacaatctt gccacgtgaa gtcaccaggg 1320
 tccagactcc agcggcgacg ctaggaggcc ggcgctatgc caaagaggaa tggttaaggcc 1380
 gcttgctcca gcagttcgat gctccggacg cgtggttggc cgtgacctgg tgtttcaggg 1440
 gcggcagagc gttggaactt tctgggcgag ggactaagcc ggtttggtgc ttgcgcaatc 1500
 ctttgactct tggtttcttg actcttgac gcttgctctt tcattccgat tccgagcccc 1560
 tggctgcctg ggtgcctgta tgctgtatg cctgacctgc tccccacaaa cccaccggag 1620
 cctgcactga gtcgcaaagt cacagaccga gccgctggcc ccgattccag ttcctccccg 1680
 agcagcgcca ggaaaggctt cctgacgtac gacgatcgac cgtgatggta tgtgagtgcc 1740
 taggcctgtg ttctgacatg atagctcaga tattattttt tatgagtagc atagtgatca 1800
 ctatcaccag attcaactccc aactggatc ttacagccga tcacatagga gtaacggagt 1860
 atacttaccg aaatcgcagc ctggcaaggt tgtacgatca cagaaaccgg aatactacgc 1920
 aacataggtc gcaacagctg ccggaataa taatgcataa tgctgaagct gaagtgttgc 1980
 acagtctgtg ccacatttgc caatctgcag agtgaggaa acgctgggta tccgcagcat 2040
 acagcctcgc tccccatgt gtttgcctc gagtcctcac tgcgtaacat cggttacagt 2100

cagactcggg caccggcggg ctgaagctgt tcaccacgga atgtgattgg atatgcaggg 2160
 ggaaaagggg ggaggagacg tcgatcccgt attacggacg cgcgtggcag gagatgtgat 2220
 gatctcctca tcacgcgtgg ctgtacaggc ttagccaaga cagccctgtc tectgaccag 2280
 ctctgaaac actgaaaact tggacagggg tggctgctct ttgcttttcg cactgatcga 2340
 cgcttatcat aaacttcacc gctcgccctat ctcgacaga cagacgacca gccctggaat 2400
 cgcttgacat ggttcccttt acttcggcgt tcttgggtcg tgcgaggcct aacctgatac 2460
 ggcgcaccca agcgagcact gatcagattc gattatgaga ttgttcttgg catgtttgtc 2520
 tgcgatgctt tttcctctgc tcccaagaa ctcgcatcc caaaagtaat catgagttat 2580
 ccttgagctt tgaccattat ccctgataag gcacttcccg taatggaagc atcacctggg 2640
 gggaataccg agaccgttac tgtttcgcat agcggcaaga actatgcgtt acaggtccat 2700
 agtctcggag atagatccca gtaacgcctg gaggtgatt atcatatcag acagaggcta 2760
 gagcctgact aggctggctt gattcaaggc cgccaggggg ctggagtcct tggagaaagg 2820
 ccaagcccaa agggagaact tgcagggcaa gatgattgat taccggcccg ctaagcgagt 2880
 tgcagtagtt catccgagca ctaatccggc ggtcggcggc cagtgtctctg gacgttgagc 2940
 gttggaatga tcgtcgcgca tcataatcat ctagtctag tagttcatct cgggattgct 3000
 tttctagttt taccggtgtc cggccggatc attgatacgt 3040

<210> 1989
 <211> 2569
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1989

ctactccoga tcagttcatc cggatatgtg gaacgcgact ctcgtgcatt gcgtcgcgat 60
 taggcaagcc cctgccgcca tctgcagttc gcattacag aggctgaacg cagaagggtg 120
 cggagacaag agtgatcagc aagaaaaaat cacagcggtc gtcaacgtgc cgcagtctaa 180
 gtacaactac gtggcaatcg agccaccagt gatagagacg ccgcagctgc gtgacatggg 240
 cgaggctacg ccaccgctag agtggattgg ccttcagcgg gacaagctcc ccaatgtcac 300
 gcatcagatc ataattgtta ccttgcctgga ggtggccaag gaggtagagg acgcttacgc 360
 caagatactg tggctcttctt gaaaagccct caactagatg ttgccgttca tgtatttatt 420

gtatactatt gtcagtgtta taccagttt cgaattacat tcatgcaccg ttgttgagcg 480
 aaaatgtcga ccaacctatg ctatatccct tgcagtaaaa gcagcacgt gcctagctcg 540
 agcggaatc ttgaatgtgg gcttgagagc tcaagctaag cttcttcagg actgtaaate 600
 ctgattcaaa gatattgcc aatcagacgc tgcggctttg cagagctttc agagctatgt 660
 caattagtaa gcaattaccc cactagtgcc cctcaccagg gctatgattt gaaacctgta 720
 acttgccagt cagcagaagg tggcagcaca tctttctcgt cgttgtgaag tggcaacaag 780
 cgattcatga tttcattttg gagatattat tggctggagt tctataatt acgaggcgg 840
 gtgccggaga gtgaggtcta ccaagctgat taccaaccat atttgatag ccgattccat 900
 ggaaagagag gatatcgcg gagatgactc ctcttgatgc ttctcgtgtt gtagtcaaate 960
 gatgctgatg atcgttttta gtcagaattg agtcagtgat gtgagacgaa gttcgtgatg 1020
 actactgtc caatctcatg gtgtagattc attccatcgg cgacctgaa accgtcaaca 1080
 ggtctctgat agatattcgc tcagggtggca tccagtcata cgttttggtt tagaaagaag 1140
 agttatatgt tgactaaata ctgtacctt gtactttgta atctccaaga tgacaccggg 1200
 ggtaaggggc atcagagggc cacaagcggg aaatgggtgc ccagtggaaa aaacgcacat 1260
 cccagattgg gactcgggaa aaaaccaacc accgccggcc ccacgaccac taaactcgt 1320
 tgcttctct cttccacttc cctcctctc cctcctcctc tctcttcca accctcttct 1380
 cctcctcag tctctcctc tggagcagcg cacataggcc ttttttcta tcccagggtca 1440
 tcttcaggtc gagctagctc tcggtcctga tctcttggtg gtcgttttct gctttctttt 1500
 ttctttttct tcccctctc cacacaacc cgcttttgag gctttaacag aaaaaaccg 1560
 ccaaagtgt caagtaagtc catccgaat catctagacg atgattgtga tggaaatgt 1620
 tttgataaat atgctaacgc ggttctttac agcttacta tcgaggaggt atgccgttcc 1680
 attgaaaacg ccagcgaccc ggagctataa aaatttttct cagcgacggg gagattgatg 1740
 tagtactaac aagcactagc tccgctccct catggaccgc aaggccaaca tccgtaacat 1800
 gtcggtcatt gctcacggtt cgtactcgac aattccttca ccggcgtgat ttgtatgctg 1860
 aatgtttcat agtcgatcac ggaaagtcca ctctcagtga ctctctcgtc tcgctgccg 1920
 gtatcattgc tggtgccaag gctgggtgat cccgtttcat ggacaccgt cctgatgaac 1980
 aggagcgtgg tatcaccatc aagtctactg ccctctctt ttacgccaag ttcgccgatg 2040

aggaggatat caaggaaatc cccagggcgc tcgacggtaa cgagttcttg atcaacttga 2100
 tcgattcccc cggtcacggt gattttctct ctgaagtcac tgctgccctc cgtgtcactg 2160
 acgggtgccct tgcgtcgtc gactgtgtct ctgggtgttg cgtccagact gagactgtgc 2220
 tccgtcaggc cctgactgag cgtatcaagc ccgtccttat catcaacaag gtcgaccgct 2280
 ctctgtctga actccaggtc gagaaggagg acctctacca gtctttcctc cgtaccgttg 2340
 agtccgtcaa cgtcatcatc gctacctatg aggacaaggc cctcggcaac gtccagggtct 2400
 accccgaaaa ggggtaccgtt gctttcgggt ccgggtcttca cggctgggct ttcaccgtcc 2460
 gccagttcgc cgtcaagttc gccagaagt tcgggtgttg ccgcaagaag atgcttgagc 2520
 gtctgtgggg tgacaactac ttcaacccaa gaccaagaag tggacaaga 2569

<210> 1990
 <211> 3095
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1990
 aacttggtgc caacctcgaa tcgctagctg atgctttgcc cgatgctgag accgacacga 60
 acagctctgg gcaagtcaac atcatcaaac agaaaacttt gaaacaccga cctgggtgctc 120
 agaagcgcaa ggaaaaaatc gagaaactgg agcgagaacg gtttgtgaaa aatatggcgc 180
 agatgtcgag tatctctgca atgactacat cgaactcgca gccggtggct gcggagtcag 240
 tatcaagtcg atgggccgcg ttacggggct ttatatctca gactatggaa cagcagcctg 300
 cgttcaagac gaataagtga aacctaccgc tgcaagggca gtctatgatg aaccgatcct 360
 cgttttcggc gacagtcatt ttataacaag aagtgtgcta tcccgcgacc atgatataag 420
 tgtgcggcgg actgtgtgca ctaggaactc ggtactacat tgtcttcgca actttgcgtg 480
 cagtgataat acctcgatga acttggatta gctaagggtg tagtactcct cgggagcagt 540
 gtgcccttg aggcgaaaca gaaggctcaa atacaattca gaaaatgggt ctggctttca 600
 gggcagtggt gcgctgattt ggaggcagcc agcgagcttt gacaacgacc atggcctatt 660
 accattcaca acttctaaag ccttgtgaga cttgtcctga tcggcggacc aggcattgat 720
 gaaggagtta tttgatgaat gttgatcata gatgacaggt agtgaagtgc aatgcaattt 780
 ctgtttagt cgcgtggtat aagttgagag gcgagggccg atcgcggttt aaagcgggga 840

tcaggaatga cggggcggggt cgatggggca tcttatctga caaccttact tcttcacetc 900
 ccaccagetc cccatctcat tctcccatct cctcaacttg tggteetett cttcttttct 960
 cctcttgctg cttatgcacc accttcacgt ttggataaca ttgctagag aattcagtta 1020
 tttagcaacc cgggcgcccg tcatgctacg gctgccgtgt cggccactgt cagtgcaccg 1080
 caccgcccctc cgttaccggc cgcttgcat tcatccttcc catttacgtc gcgggtttctc 1140
 gagctcgtea gtgtccttcc ctacatttac gcagtttgat agatccgact tcacgagtca 1200
 gccattctct ggcgtatatg aaactggatt acctacggct ggtccgctag gatccacacc 1260
 tgcattcgga gttcgcatca caccgaaatc attgaagcaa tatctggatc aattcgttgt 1320
 tggacaggag cgtgcaaaga agatcctgag tgtcgagtg tataaccatt atcagcgagt 1380
 gcaagagetc cagagacgtc aggaagaagc cgagcaactg cttgccaaagc gtttgcgccg 1440
 agaggatatt cagaggcgcc aggaagaacg tgaggagctt ctccggcaaac atgcgagcac 1500
 ggattccgtc gagcatcacc cggtcgaagg tatgtttctt tactttcagc catacatggc 1560
 ctggattctt tgtccgagct gatgcaattt atagacgagt acccaggcca acagegcacg 1620
 atctatccaa acaaccacc taccagcct tctatgcta cagataatgc agaaatcgac 1680
 gaatcgtcac aactacagat tgagaaatcc aatgtccttc ttttgggtcc ctccggagta 1740
 ggcaagactc tcatgtgccg ctcatagcc cgagtcttat cggttccttt cagcatctca 1800
 gactgtactc cgttcacaca ggccggttat atcggggacg atgcagaagt atgcgtacac 1860
 cggcttctag cggccgcaa ctacgacgtc gagcaagcag agcgcggaat aatcgctctg 1920
 gatgaaatag aaaaaatcgc agccgccaaag gtcagccatg gccgtgacgt gggaggatct 1980
 ggtgttcagg aaagcctttt gaagctcttc gagggtaga ccgtacaggt gcaggcgaag 2040
 caggaacgca gtgcgccag tctcagcggg acaaccagtt cttcatatcc tccgaatggc 2100
 ctattaggaa acacccctt tactcccccg ggtggaggta atgtacctca taaaggtgag 2160
 gtttataatg tccgtaccga taatatccag ctcatatgtt ccggcgcggt tgccggactt 2220
 caccaagttt ttattgcccc ataattccgt gccttattgg gggttcggaca gccgtttcta 2280
 ttccctctat ctatcttctc ctctgtcaa ctattattac tttcacactc tttatccacc 2340
 tcgttctctt tacttaccg tttcctaate ttgcacctc tattcttctt tcccttttcc 2400
 ttcttttctc cacctccact ctctatcctt cttctgatcc tctctctctt cctccttata 2460

ccccgtcttg cccctactct acccacttcc ttcactctct ttatcctatc aacctacttt 2520
cctcccattc tctcctttct cctccatctc cactctcttc tccattatat actactcctc 2580
tcctttcacc ctactctctc tattttcttat atttatctct ttattttctct cttctcccat 2640
atctctcttt ctactatata tctcattctc ctctattatc catctccctt aatctttatc 2700
ccacttgatc cttttcttcta tccgtctccc cctcctatca tatatcttct ctctcctctt 2760
acttcacatt tcacacctaa attctccttc gtctttttct tttcctctct ccttttcact 2820
ctcatccctc cctaactctt cccattctgt tatataacct cctctctctc ttcctttctt 2880
cttccatcct ccttcttttc tctatatctt ccatttctat atttcgttac tctactttct 2940
tcctctcttt atacctctct ctattctatc cattaaccct ctttctctat tctttcacat 3000
cttccctctc cttcattttt caattttaac tcactccctc ctccatattc ctgtctccgt 3060
tttcaccctt tcactcatct tctctcttta atcac 3095

<210> 1991
<211> 7737
<212> DNA
<213> Aspergillus nidulans
<400> 1991

tggtgatgac ggtattgcat tggtttctcc tttctgatgt aacgatccac tggaaagacc 60
tttgatcggt tgtacataac tatacgctag tatttttcaa tgagttagcg gcgcttcaac 120
gaggctaatc tggtgttgca gtcgccaagg gcgaatctgt attctttgta taagattatt 180
gtataagtac aagccgcca gacagagggc ttgtctcttc caagcattca cacgggtccc 240
tctttcacta ctcttactct tggaaacttt aattttcttt tttttattct ttttcatgct 300
tcattggtga tggtgctaga ccgttgagat acccctcttg ttcttctacc cgtttcccc 360
ttacaagcat catcatcacc atcattatgc ctggcgctat agaatcctcc ccacggagt 420
ggctacagct tgagctccg aggatatgtg ccaatgtgct ccagcttgac accaaagatg 480
tcgatccgca acggtccttt ctctccttgg gggcgactc tctgctggcc atcaagatat 540
tggcccaatg tggggctcag ggtattacca tcaacattgc cgatatcatg gcagcaacta 600
cactggagtc gctgtattcg atggcccagg gcccggtga gcttgccctg tctccacca 660
gcgataatgc cagcgacaag gacagctcac tggatgactc agagactggc gccctcacc 720

ctaccaccga cgctggctcg agcttggccg acacactctc gcccgagatg aaggccaaat 780
tgtctgcgct ctccgtatcc caggataccg ctattcaagc ggttgccctt tgttccgcaa 840
tccaggacag aatgctcgtc agccaactac agaatcctca cctatactcg tgctgctttg 900
tgctcagatt aacccactca caccaggcc tccccgtcga tgccaaacga ctgggtacgg 960
cttgggggtga agttgtcaag cgtcactcca gcctacggac ggtcctgggt gagagcacac 1020
agcgaccagg gcactacaac caagtcattc tggctgggat cattccggca gttgaacact 1080
atgaaggagc cgaccactta ggctcagtca agttcaacgt gaataaccca atcgtctttc 1140
agccgcactc gatcccacac cgactacagc tgggtccagg ctctccctcg gaggtttatc 1200
taaaattcga catctcacat ctctcattg atggacagtc ggctgaagtc ttgttaaagg 1260
acttgagcga cgcctaccgt gatggcgggc tggcggcggc acccctgtca tacgctgatt 1320
atgtctctc ctacctctc gaacctgtc agctaaacac atccagaaag gagtccggca 1380
tgagatgag ccctctaaca gttccaatgg acagaccaa cgaagggcta tttgactttc 1440
agacggtcag cgcaaacgta cctctcgatt ctgactcgt ccaatccgtc tgcgcgagat 1500
actctgtgac acttgcgaca gtgtgccagc tagcctgggg gcttgtcctg cgctgctacg 1560
ccggcacaga cagtgtctgc ttttcgtacg tcaactctgg tcgctccatg tccattcctg 1620
gtgtgcagga ggtcatcggc ccgatcgtgc agacctcgat gtgctccatt cagctcggtc 1680
cagctgatga gttaccaag atcctgcagc gcattcatag ggatgcatta caggccatgt 1740
cccagttatc gcctctggag gcgaatagca catccaagtc agcgcggcag ctgagtaata 1800
cgaccatgtc atttcaacga gccctagatg atgctgctgc gcagagagct ggtctcttag 1860
ttaaattga gggcaaagct aatcctactg atgtgagctg tgtttaacct atcctgttac 1920
tgacctctga cgtcttgag tacgacatct ctctgggcat tgcgcaggtc cgatggcctc 1980
tccgttgatc tggatttctg gggctccagg ctgcagagg aaagcgccag aacgatgctg 2040
ggtgcattcg aggcggcaat cagagggatc attgactccc cggacagcac tgtttctaata 2100
atcagtcttc tctctccggg cgaggctctc cagctagcgc aatggaacgc aagcatccc 2160
aagccggaac gagtgtgcgt gcatgacaag attatggaaa tctccaagct tcagccaggt 2220
gctgcagccg tcaactcgtg ggatgggaac ctgacatacc atgacctcac tgttcaggca 2280
tcgaccctgg cccatcattt gcgggatcag cttggggtag ggcccgaacg gtttgttgg 2340

atctgcatgg acaagtcgaa gtgggcgatt gtctccatgc tggcagttct catggccggg 2400
 ggcacgctcg ttccgctggg agtttcccac cctcgagcac gcataaggga acttctgaat 2460
 gatacagctc gtgtcgccct gcttgttgac ggtaagcatg gagaccggct tgcaggtctt 2520
 gaggtggaaa atgctgccat gctcacggtg gatcagcagc ttctagactc tctgccaaca 2580
 atccctaagc cccagctctc cggggtgacg cccgacaatg ctgcctgggt catctacact 2640
 tcaggctcaa caggtgtccc aaaggggggt gtactgctgc atcagaacat ttccacaagt 2700
 gttatcgccc acggagcggg atttggcgct aactgtgtta cccgtacagc acagtttgct 2760
 tcatacactt tcgatgtcag tctctctgat atcgctcatga ccctcttcca cgggggatgt 2820
 gtctgtatct tctccgagga aagccgcatg aacagtctca ccgaagctct gcaggggctc 2880
 gctgtcaact acgtcaattt gactccgacc gtgcttggct tgttaaaccg tgctgatctc 2940
 ccagtgatcg cactgtcgtc gctggaggag aggctatgga ccctgggatc atagagaaat 3000
 ggtcgccaca tgctcgagtc ttcaattccg ttggaccctc agaatgtacc atcattgctg 3060
 tcgcagctgg tctgtcacg gaccctgctc aagctgcaa tgcgggtac cccactggga 3120
 ctcgactttg ggtggcattg cctacagacc caaaccagtt gtgccctgtc ggcgagcccg 3180
 gcgagcttct gatcgaaggc cccatgctct cccgtggcta tctgaacgac ccagagaaga 3240
 cagcgggcgc attcattacg aatccggctt tcgtcaaaca tctcgaggct gctactcccg 3300
 catggaaggc tctgttccaa aaaagtgagc gtcgcttcta tcgctcaggc gaccttgctc 3360
 gccagaagag agatgggtcc cttgttcata tgggcagacg agacacgcag gtcaagatcc 3420
 gcgggcaaag agtcgaaatc ggtgagatcg aatactggat catgcagcgg ctcaaggagg 3480
 tccggcgcgt agcagtcctc gtaatcgaac gcggacaagg gaaggagcag aaatctcttg 3540
 ttgcggctgt cgaattcaaa gaggattacg aggacgtcag gcatagcgac gatgatctct 3600
 ctcccgtcac gaagattgga gaatccacag ttctgcccc a gttgctacct ctgaccgagc 3660
 cactgtctaa ggcattgcat cagctgcgca atgacctgtt agagcatctt cccccgtaca 3720
 tgcgccaac aatgtacgcg cccgtctcac agctaccgct gaacctatcc ggcaagatcg 3780
 accgccgggc agtgaccag ttcatcaacg aactagacga cgtgcagcta cagcagtatc 3840
 tcgccgtcag tggatcacac caggagcctt ccactgagac cgaattcaaa ctgcagaagc 3900
 tgtgggcaaa gactctcggt gttgatgtct cgcagatcag cgcagatagc catttcttcc 3960

atattggggg cgactcagta gcagctatgc gcgttgctgc cgctgcacgg gatgtggggag 4020
ttggctcctgc gcgtcgctga tctcttcgag taccocctgc tccctgacct tgctcgcgcg 4080
gtagagagcc gcgtcgtaga tgaagccgat gaggaagatc cagccccgtt cagcgtgtgg 4140
cgggaaagtc gcggctcgga gccagcgaa gagccagttg agttggataa gatcgctgct 4200
atgtgtaatt tatcgaagga gcaaactgaa gacgttcttc cgtgcaccgc tctacaagaa 4260
gggcttatcg ctctcacggc gcagcagcca acagcctaca ttgaccgcag agtttttgct 4320
ctctcacagg aggtcgatct atctcattac cgtgctgcct ggcagattgt catccaccga 4380
acctcggtc tacgcacacg gattgtgtct gggcctcaga caggttcact gcaggctgtg 4440
gttggtcccc gtcattattga ttggaacaag tcgtcatctt tagatgagta cctcgagacc 4500
gacaggcaga cggggatgat gatgggtcag cccttaaacc gtttcgcctt tgtggatcag 4560
cctgatggcc agcggttctt tgtatggacc actcatcata gcacgtacga tggatggagt 4620
cgagccttgg ttcttcagca ggtcgccgat gcctacgcga gtcgagacct gccacccatt 4680
gcctctttct cccggtttat tcaatacatc cactctcagc cgcaagacgc agcggcctcg 4740
tactggaagg cccaactcgg tggggatacg agcgtgact ttctgctgct tccaattgcc 4800
aattaccgac ctgctccgca gcagcgccat cagcatacag ttaattctagc ttccagctct 4860
acaaaggtaa tgttgccaga cttctctoga ggcgttggg cgctggttgt gcatcagtat 4920
gttggaacaa ctgatccggt atttgccatt gctctctccg ggcgaaatgc tccagtacgc 4980
aatgtgceca acatcgccg accgacctg acgaccgtcc ctgtgcgcat cttcatagat 5040
ccagagcagc tcgtcaacga gttcctgcag agtgtgagac agcaagccgt cgatatgata 5100
ccttacgagc atacaggtct tcagcgcac aagaagatgg tccccgagct ggcagcagca 5160
gtcgacctca aacatctttt cgttgtacag ccggcaagtg atggcgagag caagttcaaa 5220
atccccggag tgactgagca tcttggtgcc gtggacgaat tcgacagcta cggcctcaac 5280
gtggagtgca tgctttctgg tcagtccata gaagtogatg tgcgtttcga tgagaagatg 5340
ttatcgctgt cacaggtaat tcgtctgatg agccagtttg aagctgttgt gcatcagctt 5400
catctccatg gcgaggggaag cctgaagatc aaggacattg acctcctcag ccctgaagat 5460
gtcaaccagc ttcggaatg gaacgccctt ccccttgca acgctctcga tgtctgtcta 5520
cacgacctca tcgctgaggt cgctcgatcc cggcctgggg cagcagcaat cgaagcgtgg 5580

gatggaacat tgacgcatgc acagctgcaa tcctacgctt cgacgctcgc cggctacctt 5640
 attgagcttg gcgtcgggtcc cgagatctcg gtccccgttt gcatggacaa atccgtctgg 5700
 gccgtgggtt gtttcctggc tgtcctacaa gctggtggtg tggttgttcc cctcgggact 5760
 ggccatccca tacctcacat tgccagcatc atcgaggata ccggcgcgaa gcttgttctt 5820
 gttgatgcac agcaattcga gcgtctgttg gagctcacc cttcacgggg tttgactcta 5880
 gtgcccacg atacgcaact gctcaacagc ctaccgactg ctgcgccaca aacatccgtc 5940
 acgccggcca acgcagcctg gatagtcttc accagcggca gtaccggcaa agccaaaggc 6000
 gtgctctca ctactccaa tttatcaacg gcaatcaaga cccatggcgc ccgctttggt 6060
 cttgggaccc atacacgcac gattcagttc gcggcacaca cttcgcgcgc cgtgctgcag 6120
 gattatttca ccacgcttgc cagtggaggc accgtctgtg tcccgtcaga ggctgacagg 6180
 atgaacgatc ttgccggcgt catgaggggc atgaatgtca acttcgcaaa tctgacttca 6240
 actgtggctc ggctcctcac gcctgaccaa gttcccagcc tgaaggtttt aatcttagct 6300
 ggcgagcaga tccaggattc tgttgtggaa acttgggtaca agcatgctga agtactgaac 6360
 gtctacggac caacagagtg ctccatcaac tcaacctgca atggcccat ctctgacct 6420
 tcgaatgctc agagcatcgg gtttgggtatg gggctctcgt cctggatcgc tgacctaca 6480
 gacccaacc gcctgtgtcc tgttggcacg cctggagagc tcctaatacga gggctcctgg 6540
 ctggctaggg gatattctagg cgatccagcc aaaacggagg ctgccattat ccagaaccct 6600
 tcctttgctt cccgcttcgc tctctcggac tgccgcgtct atcgaactgg tgatttggca 6660
 aagcaaaccg aagacggcca gatcctatac ctcggtcgca ttgacacgca gatcaagatc 6720
 cgcgggcagc gggctcgagct gggcgagatc gaacattgga ttggacgcca tctaccccat 6780
 gtcaagcaca cggtctgtgt ggcaatatcg cgtggagaga agcagatgcg tcttgcagcc 6840
 gttattgagc gcgagaacgg acataaacca gaccgggtga tctttacgca gctcaagaag 6900
 accctgtctt cattgctacc gtcgtacatg gtccccagtc tgtatatccc ggtcactgaa 6960
 attccccctga ctgtctctgg caaactcgac agacgcgcca tcaaacaaac agttgaaagc 7020
 atgcccactg aagaactgga gcagtacttc gcgggtgagt ctagcggaac ccgcgttccc 7080
 ccgtcaaccg agatggagaa agccctgcaa cgaatctggg ccaattcctt gggcatagag 7140
 gttgacgcca tcggcgccga cgacaacttc ttccagctcg gtggtgattc agtggttgcg 7200

atgcacatct ctgcctccag tegtcaagac cagtcggtca agggactggc agtaggtgat 7260
atattcatgc atccgcgggt ggccgacttg gcggtcttgc tggagaagag accgcgggaa 7320
ggtgaggggtg gctgggacga ggaaatgaga gacgatgaga gtccatttgc attgctgcag 7380
gaggtgttgg acttggaattt gaaagacata taggctatgt tatacatctc tgacacgcgg 7440
ttttattctt gctttttgca gctttctagg cggatatggt agagacttcg atcacttgca 7500
tttacctgaa tcaatctgaa aggagaaaag cacacaatca agcccgccgt ctcttcacca 7560
acaccctaac gccgcttggg ggaaatactg cctctgccac ccaccggttc gccggtctct 7620
tcccctggta ctctcggga aaccggatat cgtagttctt tagcacgtat gcgataatca 7680
tcttcaactc aaagtccacc agaaaccggc cggggcaggc atgcttgcca tgactga 7737

<210> 1992
<211> 2182
<212> DNA
<213> *Aspergillus nidulans*

<400> 1992

ttccgatttc aggactagag acgtcatcgt cgtcctcgct ctctatgcc ttactcgttt 60
tatccatata atgtcggatg acagtcccat caccatcttc gttcgggttcg tgataatctt 120
cgtagtcata ttggtaggcg tctcatact cgtccatata cctgtccgtc tttccagctt 180
cactctccgg cttaagcaga gaaagctctt tcccagtacc ggcatgctga ggaaccgagg 240
gagcccagtc cgagtcttcc tcatcataag cactgccatt tcccagagt gcaagagcag 300
tgcgcttttt ctttctaggc ggtatcgcta tagcaggcct tgacgacgtc aatcttttca 360
agaatggctt cccaaaagga acccgtcaa taagatgcct tccgtcagcc gatatctggt 420
gccggccgga tatctgcctt gccttgaggt cgaagatctg tagggcacgt attaggactt 480
catcgccata cctaaggatt ctttctattt ccatgaaatg caaacattcc gagcccccaa 540
cttcaaccac gtagtcttcc aagccccact gtccgcttgt ttcattttca aacagccgcg 600
gctctgtctc cagcgggaatg acctcgtaa cgtcctccag caactgtgcg attgtgtatc 660
ccccgttgcc gtataacgca ttgggcatac gcgacgacgt cacagcggaa gaggaggcag 720
gtgatatgga cgagggggtt ggatgattgt gtccgaagag cgatggcggt gaagtagtcc 780
agagaatgcy cgttacaggc aaaccgtgcc gctgaatggt aaggtggagc cgcattgctt 840

gaatgtcaaa gtttcctggt tcccaaacca ggaaagaaga taccggttaa gaaggcagct 900
 gcagtcaaag gcgcaacact acccacggta tggcgctgc agattgagat ttactatca 960
 gtgtcaatcg cggcaaagtt gcaggatagt caaactgaag agcaccaaga acgacaaaat 1020
 gaattgaagg aaatcgctaa ggacttgagg ttgtaatcat ggtggtggaa atgtggttga 1080
 gccaagatt taagtaggag ctggagagcg cagctctcac ttgttgctca tctcctcacc 1140
 gctcgctg ttttgatcgg cgcgctgac aagggcatcc ccactacgca actatacttt 1200
 ttctagactt ctttgtcttc tgttggggat attatcacca tttcttcttt gttgctgagg 1260
 taactcataa ggaaacatgg ttatatacaga atagtgtcac ggccagcgaa tttggtggac 1320
 agatattatt cttcctacga agcaacctat gtatctcgac cggatgggaa attgacatac 1380
 aataagcaaa atacgaatga agaaaactgc aactccacc gtcttcagc tcaatgatag 1440
 agccagtga gggcagatgt tattgatatt ccaactgcaac catgttcacg ataccggcag 1500
 gcaacatgcc agcagcacc tgaatgttgc gaaagcgcca acaggaggta ttctgggtaa 1560
 ccaactaaaa ttaggacgga atggaacggt attagcgtgt gtggtgtcca ggtaatggta 1620
 agagttataa ctcatatgga aggcattgca cgtacatact ccgtaaagat agtattatat 1680
 gttatctctg aggggctaaa aataaaactg ataggttttg cgaaacgcgt gggataattg 1740
 ataatgctag aaatcccaga ctctgtcat atgcatttga acgaattcga atccctcaaa 1800
 gaatgataat gccctgctg agcggaacag gtagttttca aagggcagta cagcggctca 1860
 gggtttcgcc tgcgtattag cttgctgtt agctcggtc ggacttggtta ctggtttctt 1920
 gctgggtact ccaaggttca ttcgtcgca ttgtctttgt gaatcctgtc cttgggcccgg 1980
 ttgcggtttt tcagctacca gccgtactg aggagggctg tcttccaccg gaagtggcgc 2040
 cttgtggatc ttgagtacac tctgctgcc ggcaacgggg ggccccagag gtgacctga 2100
 ccgagactct ggaggtgatg aaggagcat atcgaatgat tcggaagacg agttcgctcc 2160
 tgggttgcca tagattccgc gg 2182

<210> 1993
 <211> 1133
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1993

gatgtcttgc gaagaaatgt cctcgggaact cctctgccaa aatcatgctg aacaatccca 60
ttactgacca ctatatcccc aagaataatc tccgtctgcc ctttcgtata tggaaccctt 120
cacaaatgcc caccaccagg gcgagttgat gttcgggtag gttgatcgta tagaagaggc 180
agctcggctt gtggcgctct agttggagca gcttctggag ggctgccgcc gggagaatgg 240
cctggaaaga tcatccagcg gcccttacia tgtgaatcaa gcaccgctca cagattcacc 300
atgtcaaagc cacatgggct aagcatgctc tcgatccaga tatgttcatt gaatgatcgg 360
gtttgcgtaa acttttgtat gcacgtcgga gacttatgcc gcattctggg cacctcatct 420
gccaaacccc tttccggctg tgcccttta agacctatc atggcaggaa atccgctctg 480
tttcctttct cagtcagcca aatgtgcgat acagacgcaa tgcagaaacc tacgtcttct 540
gtcgcagggg ccgtgcaaga tcctgccacg gacgacacca gaaaccttcc ctccaagatc 600
caggaaacta cgagatgcat taatggatgg atcaacctac tcatactctg cggattcagt 660
agaagagtgt ctttgacgga attatttacc cgcttgagct ttacatagac gtcttattcc 720
aacaatcctc gcgcaacatc tggatttctt cgcgcaaacg gggatatact ccggattcgc 780
acagagttcc agtagcacct ctgtcactag tcggccacta gtcaaaccct gaagataacg 840
acactagtaa aatcagtgga acctgtagat agcttatttt ggcgtaggat ggatttcaga 900
gttatcgatg gggatgccca agctgtgact cgtctctagg gaaaagcact ctgactgggg 960
attgtctaga cagcctaca cctgaccctt ggagatatat gtgtgaaagc cagtatccta 1020
gtaagagcgt agtcttgtaa gcacaattag ccatttctgg ctgagtgaag ttcaatactt 1080
agccaattta gaccatttga cgtatactat aagtcatgtg gccaatctaa tga 1133

<210> 1994
<211> 6256
<212> DNA
<213> Aspergillus nidulans

<400> 1994

gtcgagacag acccaagaac tgattccggg ttctacgcgg gcaccaagga ggaaacgttg 60
gacgggaata caacgctcct ctgctctgcc gcaagccagc tggcgtctgc agtatgcacg 120
gctgccagtc tcgcaagaat aaacgagact tccggggact ggggtgtacc agtggcacca 180
atgaaggcac tggcaacgct gccctcgagt acagcagcat tcttcacgta atcttctccg 240

ctagttgcat tccggatcga gtagtcacat cttgggttcg agaagccggg gatttgagag 300
 ccgacttgct gtaaagcgcg gacgccccaa cggttctgtc tctggatgcc gaggagggttc 360
 tggtagtact ccactctcga gccattgggtg gcacccctca ggaagggtctg gttgatcggc 420
 tgggatgtat agtatctctc gagcagtcct tgcaatgcgt acgcgtattc aatgacttcg 480
 gcgtcagagg acttgggaga acagcttgtg ttttgggcga tcgcagcccc ggcaagcagg 540
 agaccgccga atagagaaga gaaacgcgtg ctggcttgag aagatagttt acacgtatat 600
 ggatattgag taaagtagaa accaattgag tccaggaatt tgatagtgtt atgtgagagt 660
 agatactcat ataagtacac gaatactaata ggccgtcaga acgacgtgag actaactgta 720
 tgatgcaata tgaactgtat gttctcgtct tagactcgtg gaaacgcgcg gatgcttaac 780
 ccgacctttg catcacgata tcgccgagag aagagctcat aggtggacag agcagccctc 840
 gtagtgctgc ccatgggtta ccggatatgc ggatctctca cccgccattg atgacgagca 900
 gcgcgaactg aagaccgggt caaactctga tatcatgaca ttgggaattg tggtaaggct 960
 gaatgcggtc aaatatgttg tcaactgtcaa gtgtgggtgt aagagggccc tgcagcttcg 1020
 gtccgtcttc tatcttctgg tgcgaatccc ccttcagcg agtcctagat gcgacagtag 1080
 atctagatta aaatccaaga ttgactcatt tttccccctt caaccagttg gcggatgagt 1140
 gcggaaagca taaccacagt accgcactgg actatgtttg ggtcaacaat aggcacgtga 1200
 ctaggaattt acccctactt gatgccaaact cggcaacata ctactttgta ttgatgtggg 1260
 ttttcatcca gtgtcattgc aaaacgatct atgccatgta ccatcaagtg gccaaagata 1320
 gcactcacta cccgagtgtc ggttacgcaa tcaatcaagt taagtcaagc caaaccaacg 1380
 cagaatcttc agaaaacgag caacacagat gcactccgga gtgctttaca tggcctgggc 1440
 gaggatacct ccagccttga aaggagtgga gtgcacatga gagccgctct tgtagccacc 1500
 cttggcaatg atatcagagt agttggtgga gccaccaccg ttccaagcaa ggagctaaat 1560
 cacaagttag ttaagaccag taaaaattcc aacgcgcaac ttacgttggg ggtgtccgca 1620
 ggaatgtcag taaggacacc ttcagtggca atggatatga tacccttctt gagcttctca 1680
 ggagtgaaat cgactgcgaa agcagagtcc ttggacggtt gaagggaac aaagtacgcc 1740
 aagagaccgg caatgtgagg cgaagccatg gaggttcccg agatggtgtt gaccgccgac 1800
 ttgctgccaa tccaagttga cagaatgttg aggccaggag caaagatatc tgtgcacttg 1860

ccataattgg agaagtaagc gcgctcgtca gcaagggtcg aagctcctac agtcactgcc 1920
ttctcagcgg ctgcgggaga gtagctgcac gcatcggcgt tgcggttacc agcagcgaca 1980
gcaaagtga caccggcttc aacgccagca ttgacagcat cctcaagggc cttcgacttg 2040
ccaccgcaa ggctcatgtt agcaacgctg cccttgaagc cgttgccacc cttcttggtt 2100
ttcttgagat gagactcgac agccactcgc acaccctgga caacgtcggc catggtgcca 2160
gagccactgg acctgagaac cttaacagca tagatgttgg ccttcttaga aacaccgtac 2220
ttctttccgg caatggtgcc cgagcagtga gtgccgtgac cgttaccatc ttcacccgag 2280
tagatgttag ggatagtctt gcccagaaa gcacggccct caaagtcctc atgttcgata 2340
ttgataccag tatcaatagt gtaaacaatca actccctcac ctccctcggg agcgtagagg 2400
tacttggtga atgtaccgaa agtgagtctg tcccgatgcg agatacgagc caaaccccaa 2460
ggggcggttct tctcaacgtc cgtgtcctcc aatgtatgga cttcggagtt tcgctcaatg 2520
tactcgatct atgaaaagat gaccgtcagt ttgggcagag cgtattccgg cggtgtactt 2580
acgtcaggat gtttgcggtt ttctcgcgtc gtatcctcgt ggaaatgtcc cgagtacccc 2640
atgagggatc ctgcgatatt gaaggtggcc tttagaccgt catagatctc ttcgccgaat 2700
ccgaattcca agccgaggaa acgcttcttc aggtctgccc ttccaccact cttctgcccg 2760
tggatgtcct gcacccaact gtgatgaaca gaggcggcaa cagggtctac gtgtttcttg 2820
aagacaacaa tataagagtc cgggacctcc ttagcgtttg tagatgaaag gatgggagcg 2880
gctccgttgt gaatcgagtc gacaacaaca ggcgaggctg caacaagcag cggaacgaat 2940
gaaaggccga agatgccttt catgatggcg gctataaaaa tgtaaacgaa cttgacagac 3000
caacgaaatg aaagaaacca ggacttcaca aagatgaaga gtacgatgat ttagataaga 3060
gatgatgaag atgaagatga agagagaggg atggggagat gaggagttag gaggagggtg 3120
gatggggaga gccgagctta tcagtcagct gcaccaagga agggatgatg aagatgcaat 3180
ccgggatcat tagatactcg ttaccttacg cgctgttaca gatcaggtga ctacacctac 3240
gcctctgtcc tgggtgtaata gtgtaaatta cctatcaatt acagatggcg gcagtacgag 3300
gcctggtcac gctatgataa ggacctatgc tgagcaacca gccagtgggtg gaggtgagcg 3360
agatcaagca gatcaacagt cagaaggggtg cagttgtgat agctagtatg ctacaaagta 3420
ctactgagta cacgtttgtg gcgtagagat gcctttacta ctattattgg caatacaatg 3480

aaaatcgccc ttgccgtaaa ttacaatcgg acggaggacg cccgtccagc ggtgactcag 3540
 gtccctcagca gaccccagac ccaagttcca ggcaccaggc gcttgaggaa ctcgtagagg 3600
 gtcaccctaa ccaagaacaa cagcaggggtg gaacaatggc gaatttgtca gttggctaac 3660
 ttctgttttc aaccccagcc tgggccgagc tacaagctgc tgatcgctga tcccgcctca 3720
 ttcttgactc cggaatcctg ccaacagatt atgggtacta taggtggcat ccatgactct 3780
 gcacaagctg ttttaagcgc taggtaacct aagccgtgac gtacacaaat ttgacaacct 3840
 gacctttgta aataactcgg ttcaatcttt accgccctcc tggctaagac gatttgctct 3900
 acggatgagg cagcagcttc aataagccgc tgaattagca tgctggaggg aatacaaadc 3960
 taaacagttg ccaaggggtg caatatatat aagggtgttc ggtgactcct cagctatgct 4020
 acggatatcg cgctgcaggt ttccattctg tttctaacac aatataaagt acttacggcc 4080
 atccattctt ttgaaacat ggggccctaa acgggaatgc actactccga actcggaagt 4140
 gcctctttcg aagccggaca ttcacagtcc caccaacaag gaaatcgagc ctacagctaa 4200
 tcccgtcaa tggagtatcg tatcgctgcc gttattagcc tacagtactc taagcacgtc 4260
 ctttcgcggt actttgcgac ttcgctgaat gctgctgagg tagtaatata ttctttataa 4320
 cattgtagcg ataagtgcgg gaacaaaacc ttttgactag gatttggcac atgcttcttg 4380
 aagatgctca cgagcatttt atggctcttg tatgattcca acctagtcac cctagtcaag 4440
 tatgatactg cagctacaaa cgctgaaaca gggcgctccc aacagctatc cagatgccta 4500
 gtatgatgct caggtaatag caatcgagat atcctcgca agataagctc ttatcgataa 4560
 cacatcaatg atacctgcaa gtggctgagg tgggtcacat gagtgatctc tcgaaacgga 4620
 tcgttgcttc atcctcttgg tccagcgaca ctgcctgttt gtcggcgggc gagaaatttg 4680
 cagcttagct actaccgttg atctcttaat aaaaggaaac taataaatca taggtcttcg 4740
 attcgtggcg tccctctcca aagcgcaatt gctgatacta ctttgaagca ggccttcggg 4800
 cccacccttc cgctctgcc gacgacgag ctccctcgcc ctgccaatga gggcagttgt 4860
 gacaccaagt cgaagtgatt gttcatgtct gatggtctct agccgtcagg taggtagccg 4920
 ggggtgtttc gcggcgcaat gaaccaggcc gtttcctgt cgccgcactc ctcgcttacc 4980
 caaagccctt ttgtcgagtt cgcgcccgtt atcgatgagc tgaaatctat ttgcgatgat 5040
 tatatcgaca taagccttac aggtacggtt accgagtgtc tgctccggct ggcacacag 5100

ttgatcgata atccgcgtcc tacggaggcg aaggagttat tccggcaact cagcggcttc 5160
 cagacgctac tgagtcttat cagaaagctt tccggagattt atacccaag tgtgcacact 5220
 aaggaagaga ggcggagctt gctggcggtc tacaagact gcttgacaat tcttgctgaa 5280
 tgcctcagag atcatctagg aaataaaagg cattttgcta atcgaatccc tggcggaggg 5340
 caactagttc tcgaagaggc gttctccaca ctgatactaa agctagatgc tgcacaaggc 5400
 gatgtggaat atttctgcgg tagtgttctc gcagcgtcac tgtgtcaaga gaccgtagtg 5460
 gatgttttca cagcactctc aacaaagctc cagaaaacag accagtcaga catagctccc 5520
 gatgctgaag agaaggaagt ctgtcgctct ataggagcgt cagagattat tgaagcaccg 5580
 gagcttgccg gcgcattact acgagaatgg ctgacagcat tcggtctgat agaagccccg 5640
 ccagacgggt ctgcggttag ctgtaccatg gtgcataaac cgactggcca cacagtctca 5700
 acggcatggc atgatatttg cattatacag gcgcattaag cctgacattt tcgcttttac 5760
 tcggtgagaa cctactgagc acggagaagc agttttatca aaaacttgct caacagatat 5820
 gcacccaag aaccaagaat atggaccacg cggggttaagt ttaaaaacgg ataaccaatg 5880
 tctcaaggcg gttacagttc tactgcaggt tcctaaccgc tccagggggc ttcctcgtaa 5940
 cgatacatta tcctgcagg gatttccaac cggaagtga caaaagtatg tctggcctct 6000
 gctataccaa aggtttcaaa gggcggtgct tgtatatcat taacacagca cctttcagcc 6060
 ttacgccatc cttctgtcaa cccttaaaag ggatatggca cacactggct cctttggact 6120
 aatatggttc tcaacgcttt aagccgggta gccaaagggc cattctcttc caaatactac 6180
 cgtataattt cttttcttaa aatatgtggc aaaaaactcc gtcatcctta cccccggag 6240
 aatctctctg ggacac 6256

<210> 1995
 <211> 2497
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1995

ccgataatac gactactata ggctcgctct ttctccatct tcacagccat ctcatccagt 60
 tcccgtcaa tgtcaatatg aatcctcagt tccttctcaa caagaacgtt atatacgtgg 120
 cgcagttcgt ggaagctcat ccctttgccg ctttcacctt ctctgggtggc agtgtcttcg 180

cgcagctggc tgaacgcgag catgaggata tctttggacc aggggcacgc gcgcatggcg 240
 cggtagaaga cactctttgc gcggattagc tctactgcgag agagttcgaa aaggatatag 300
 agtttccaga ggcttatgct accgcggcct gtggatgtac gggatgaagg tgatgaattc 360
 tgggtctccga cagccttctc gaacgcagcg cgaacagagt gcagtgtcga accagcgat 420
 gttggggcgg ttaattctgt gtagatgaaa aaaaaatgta tggttatggg aatgcgttaa 480
 tattgttaat ggattgggat gatgttgtgg tggttgtggg agtgatgtct cgcataatct 540
 cgcggaacgc ctctcaatc ggaagcgaga ttcgttccaa gcaaagagag agagcggttat 600
 tgtgttttga gggaaagacg cgatgctttc gtttaatat gagcggatcg cggtatggttt 660
 gtagaggggtg cttgtgcgga ggtggtagta gagtagtttt gcgcgagctt ggtgcaggag 720
 ttcggttgca tatgatatga aggtctgcgt ggggcctgag tctggattcg ggagagcgga 780
 aagtctgttg atcgtggcgc tgtatgcac aagggccttg ttgacgtctt gtgcgtcaat 840
 gaggtacgtt aagatagcct gactgtcggg acaggctttg ataatgctcg gttttcggtc 900
 tgcaatagcg ctttcttgga tctccgatag atactgcgca ggtagcaat tgaatgaaat 960
 gaaagggcgc gatcacgcac gttacgtagc ttcagctgat tagcagggtt aaacgatgat 1020
 tgctgagacg catcgggaaa tgttttaaga tcgatgttgc tctgcggcat ggaaaccaag 1080
 agatggggcgg cgtgggctat atttcgagcc tccaaaagtt cccatatcca ggtatgccac 1140
 agaataacgc tgtcaactcg ttgttggctt ggaaacgatt tactcataga gatagccgtg 1200
 gcccaaacat gatcagcagc tgcgtggttg ccactctgac gctccataat tgcatatgcg 1260
 ttatacagtc ggaggctttg aggcctcttt ttgagtagtg actttgcata ccttttggct 1320
 tctttggaat tgcaggcgaa ttcgactgcg acagtgtact cagccaatag ctcatccgac 1380
 gagtatgcat caaccaacag cctcagagtt ctctcagtc agtcacgaac aacactgcat 1440
 gctgggtcag aggtagcctt gagccaagca ttgaaagaag agaaccaatt ctccggatct 1500
 gcaaaatagg tgtcataatc gtggataaaa tattgatgag gaaagattgt tggcgagatg 1560
 ccggtattctc ccttagttgt cgttgggaagc cagtcacga ggttcgcgat cgaggcagct 1620
 gataactcgt ttcgcagaaa gctgtcacc atccaacaac cggttgcct atagttgttg 1680
 acggttatta taggcggaag atgagagaaa tatataaac cctcaatgag ctcatatc 1740
 gaatcaggta acgatgcgag agagagaatt tctaagaggt cactggcaag gaccacgcgg 1800

tatggatcat cttctggctc atccaagctt cgggccggga gttgagcaat gagcatacgt 1860
tctctttcac aggctgtcca tgatgcaaac atggactttg agttgagatg gtgctgcggc 1920
tggaagttt taggctcaaa taaggccaca ttgctatttt tccaaccctt ggccccaggc 1980
tcaccaatcc gagctacttc tgagtcccag aaatccgtga atgcagacag cacttcgtct 2040
gtaaccatgt ggacatcgac gccttgccgt cggaaaaaag ccagctccag aattccttgc 2100
cagaggccag ttgcttgctc cgtgtatccc gcttcacgta agaaaagcgt tagtcggaga 2160
aatagatata ttgacacaca ggctttctcc ggcccatccg gggacatctt attcagacgt 2220
aggcattcga tgaacgttgc aaggcactga ccatgggtga aattaagaaa ctctgtctgg 2280
cggaaatcga gatatttcac ccagagggtg atatactgcg agttggcttt cagagtggac 2340
tgccactgct ccaatacctt tttgtgtcc cacagcttcg ttccttcctc cagaagtccg 2400
ataagaaggc gatctcgacc aggaccctga ccaatcttct tcaacgcctt ttcgtacaaa 2460
gagaccttga tatcagccaa acctttatgc tcggcag 2497

<210> 1996
<211> 3596
<212> DNA
<213> Aspergillus nidulans
<223> unsure at all n locations
<400> 1996

gggaacggag ggaggcttgg gctctgtgga cagacgctcc atgagctgcc tcaacttttc 60
tcgctcgcgc tcttcgtggg cggacgttcc ggctgccttt tcacgttcga tctgccccaa 120
aagttgggca ccctcagatc tgcgattggt gatgaaagtg tcgacgttct tcttgaggct 180
gtcaacagtt tcagtcattc cagcgtagaa agtttgagcc tgcttgattc cagagccaag 240
gttggtgaag gagtcgtata tcttcttata tctggccatg acggagttgc gttgtcgggt 300
tatcgactca tatttggtt gttcagctct cactcgctta tcctgtaata gatctccata 360
agttttcgtg agctccttca tcaacgctgt ttgcttatga ttggcctgaa ctattcgcac 420
ttgatgaggg tggaatttct ccaactccgc ttcgaagagt tgactctcct ggcccgtaat 480
cgacttcttg ttaagtatca agacgttcga tatatcatcg ttgcgcacct agaacgcccg 540
ttaggagctt tgaacaata tctatatgca ctgggtggcat tcaccttttc ctttaagtcc 600
ttcaagacct gggttcgtc ccgtttaacc aggtttagtt tcttcaaaat ggattccacc 660

ctggcaatct gctctgccac agaggggaacg ccatcatcat agacatcgtc tagtagactt 720
ccctccgtag ccgaataagg gctcgtcaca ccatttttag ttttgccttg ctttgagcct 780
gccttgatca ttgctcgtg gaaaagcaca tccgcctcgt ctgtttctcc tgccgatcgc 840
atctcatcaa agtcagattc gtattgccga agagttgcag agagctgagc gtcactagca 900
ctgggttcat gcaccgtgtc tcggtatgtc cgaatatcat tgcggagagt catgttcaat 960
cgactactgg gctgctggct ccaatcagcc ccatattttg agcgcatttt ctgcgaaacg 1020
ctttcttcca agtctaactg cttggcgcat tgggtcaagg tagctagcac ttctgacttg 1080
cgatcttgaa gggatcgaag agccttcgca aaagaatcat gtcctgctag ttcctgacac 1140
caacgttgga attcttcgtc gaccatcact tctgatcca ttccaccttt caaaatgttc 1200
aaactaccgg gaagcttgaa atagtctaag cttgctgcca tctagccatc ggcggtttca 1260
accttctctg tatctgcccg gatcagtttc gccttttctt catcataaag acttgctgtc 1320
tccgtaaccg acatgggaac gagtttctgg aagatatctg gaccgataat ccgttgaata 1380
tcttggcctt gatacaactc gctaactgga attgccttgg ctgcaggag cttagatacc 1440
gcagacagtc ctgcctcgtc cggaacaggc tgatgataaa taaaatcgtt atccttgacg 1500
aaggtagcaa gctgtgactg cacgtttgct agatggaact tcacgatatc tactagactg 1560
ggcccagcct ccgatgtaag gtttgtgttc ggtgatattg acgaaggag cgacttagcc 1620
caactcaacg cactcgttga atgcttctct gctagctgga gcctagcaac agctactccg 1680
tgcgaaacctg attcgccgtc ggctagagcc tgataatacg aggccacgga gcccatatgc 1740
gccgacttca cttgcagaag cgtaaccat gatttgtcga atatgccttt agcatgttcc 1800
tgtgtccctt caatggcctg tgcgtataga tatgaagcct ggctggcgag tttcgccagg 1860
aaccggcctt ttttgtggc catgatctgc ttctcgagga aaacttctg accttgagca 1920
agcgtgatgt tgatgagagt ctttacagtt tcgcggttga gatcagtcga gggggcgtgg 1980
aggaagtttt cgttgatgta ggtgaacatg ccggcggtatg cctggaagtt gtggtaggca 2040
gtcttcaagc caatatcatc tgcgcggttc tggttcgtc catgacaaga aaggaccgca 2100
gatataattga agataatcga ggcccttttcg aacgcgagag aatactgcga ggtcggttgg 2160
tggttgaatg catcatacct ataggcagca ttacatggtt agcggaggtg aggtaatgat 2220
aattcgtagg tccattacca ggtaaatgat atttttatat gattctcatc cacagggaac 2280

ctgagatcca gaagctctag ttgcccatag tagcggtaga gtaggtctcg tcctgtcgcg 2340
 ctgtccttgc cggcaccctt catatcctga cgcaaccggt tgagtgtagc acactcctga 2400
 ctgtagcgct cagggctctt gccataactt tgccgaatat aatccttgag aggttggatc 2460
 cagtcgattt cgttgggtctg tttgagggga catgatatca taggcgactg aaccatcttg 2520
 ccgtcgtgga gcggggagct cccatctacc taaaaggaga gcggggagat gttgtttgga 2580
 acgaagagta atatggatta tacgttgtgg gagatgaaac tggaaatgaa atcaaagatt 2640
 gagaagggaa agaaagcagg actgaaaagg agagcgatga ctgtgggggt gagaggagaa 2700
 tgtgactgat gatatctagc gacggaaatt gcagtgggtg gagttgggct gattcgatcg 2760
 cgccgatgcg atggatggat taacagccaa cgcggggacc aatgatccag cgcctaagca 2820
 ccctgcacat tcttgaatat tgatgactga tctattatta acttctaatt taaacaccgg 2880
 cctggagagt atgtataccc ggagaagtag agatgttgtg gctcccaata atgtacatgc 2940
 agagatagcc tctatggcgc gcaatccctg taatcaaata atggatgata caattaaaga 3000
 atccaacat gcagaatatg caaaatcacc taaatcagaa accagatccc tccataatct 3060
 cgccggcgct atgatataca caaagaatag aaggtaaatt cgttcgaacg acgtcaaccg 3120
 accgctccgc tcaaggcgaa ccgcacttct tgttttattc gctcttctta ctgtcgccgg 3180
 aggaattgga atccttattg ctggaaactat cacttgaatt ctccgagccg gcaggtttct 3240
 tgtggttcat aagcttgtgc catgcggtt tgaggaatcc ttcgctcttg gattcatttc 3300
 cgacatcgc tatcagcaag aagagcagta ctaaggctgt tagttattat tcatcaataa 3360
 taggattcaa cggaagtgca atacataccc gtcccttgga atgtccatga ttcgtctggc 3420
 agtcttgtcc ccatttcat cggcgagAAC ctcaaaaata gtacgctggg tactcgtcag 3480
 atacttgggc atcgcaacct tgaactcgac cttcaggctg ccaaagaaaa tgaagccacg 3540
 ggatcggccg ccaaatttca tcatgcccag tcccgggaagt gaatccagcn ccggtt 3596

<210> 1997
 <211> 1924
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1997

ctttaatcag agatcagata cagtccaacc aacttcgcgg aggacgtatc tagtttttct 60

ttccctgect tatctgttgg cgctgcattg gcgccatcac cattctgctc ttttcgagcg 120
 agccctttct ccagctcacg atcagggttc gcccagtggt agacaaaagg ctcaataatg 180
 tttgacacaa tcatttcaac cacctcgctg gcccggcac ctgctgtttt aatggcgaat 240
 gcggtgactc gtgccacatc acctttgcgt agctttgcat gagtggtagg aagtcgtgcc 300
 aggaggtgag ccaacttcgc cttcttcaaa ggattcatat ggcctaagcc ttcatttcct 360
 gttccaatgc cgtcgggtggg aggcggccca ccatgttgcc gtcggtcgct ctctccatcg 420
 gatatgtcct catccgacga gtcgtagtct tcgtcagaca cgagttcatc tagtcgagta 480
 gtatactcga atgtaagctt gtcctgagga atccacattg cgccgccttc aaagatcggg 540
 aaaggatttt gtgagtgtcc tcgttggctt ttggagcggc tatttgtgat aatatcccat 600
 aatttccatc gatagtatac tccgccgggg cttcttgcat cccatagcca cgccatttc 660
 tcctccttct ggacttctgg tcggctcatg agaagggcct cgaactcggg gccgtagttt 720
 agcaaattct ccaaggtttt gtggataagt ctaagctgct tcaaatacaga ggggtgctttc 780
 acttccactt gcagagtaga gctgctgcca ccataagatg gcccatagga gtcggagga 840
 gcgaagccac cccgatgcag accaggcggg ggtgcacggg taagtcgacc cccagctcc 900
 ggggctaccg gctttgctcc aaatggaagg gagcctgtgg aggagggccc gatggcaact 960
 gtcgaaccaa tcgcagcgga tgatagatgc cttgaaatag acaaatagta gccccacccg 1020
 agataccggg tctgcaatgc actgacactg ctatcaatat cagatgcagc ggattcactt 1080
 gcaagggtca caatggctga gaccgacttg cgttcgggtg cggtctggcc cgagggccgt 1140
 aggaatttga cattgtcgac ggtcaacacc gtaggtatta gagccttgac cacagattga 1200
 gaggtcccag ggggaagaga cgcaagatac aatgtcggct tagccgcagc cctctcagcc 1260
 tccttcgctg ccgcactacc ctcatcctca tcgtccgatg cgcgaaaagc ggacttagcc 1320
 gcaccggctg cattatcaaa tcccagcgtc cctgogcag attcccaatt cctatgtaat 1380
 gggtgaaagc cttcgtggtt gcgttttcga gagagtgatg ttggaggcgg tcccagcgtc 1440
 ccaggaccac tcatgcgcgg accggagctc gtgaaatgtc gttttgcagg cctccaaag 1500
 ccagtgttcc tgttcgcaa tctattctgc tttccctcaa atgtcgagc ctcaggggcc 1560
 ggggaatcat cttcgaaaga tttgacaaag tcctcgtaca ccgcagctgt ctcggcgcgt 1620
 tcgcgggcac gtttggttc ggcttcggct ttctggcgtt caaagagcga cttcttggtc 1680

ggggcagaca gcttcgacga gacgtctggg aaagccttgt gtttggagtt gtctgccatg 1740
 ttgacgaagc tgcaggagca gcagaccaat cgtcaaggat gtcgcaaaat cgaactcgga 1800
 tgtcaaagt caagtctcaa cttgtatgcg gcgacagttc gtgaatggaa agctgttttg 1860
 ggccactcgc gggcggaggc ggaagggctg ctgctgcctt ggggctcagg ccaaatttg 1920
 gtgc 1924

<210> 1998
 <211> 3239
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 1998

cgacagccaa tcttctgac catcaatgac cacagcgtgg agcacgtggc cttcgatgtc 60
 gacggcgcat gtgtttctac cgacgcctgt cgcaacgcca tcagaccgag tcctaggtga 120
 ccgcctgcgc gccacaaca tcacgcctca attctttggc tatagttgga tgacggccgc 180
 tgagctggag ttcacatttc tgtccatata agagcgacat cggccctaca agcacatcct 240
 cgaggcggtc ttctatcgaa ctcttcatat ggcaggggtc aaagaccccc gagcgctagc 300
 taccgagacc gagcgcgacg agtgtatcca ggggtactgg agtctgcagc tccgacctgg 360
 gatcagcgag tgctttgcga aattaaggga gtcgggggtc gccatctggc gtctcacgac 420
 aggcgacatc gcacgagtga aggggtatct tgagcgagga ggcgtggact tgccagcaga 480
 gaatatcatc agctgcgaca gcaagggggg agccaagcca gcactggatg cataccgacc 540
 agtgttcgag cagtttgcgc ctgcgcgacga gaagtgggtc gctgcagcgc atatgtggga 600
 tgtctcggca gcagtcaaag ttggatttcg aggggcttat tgtacagtct acgagcagga 660
 tccgtgtctg gtgatctttg atactaagat ggatgttatt gcagatagtc tgggtggatat 720
 ggcggaagaa attgtcaagg cctctgcgtc atgatatttg tatactgtct gctagatccg 780
 aaatattcaa tgatcatctt gaccccgaaa aggaagagcc agttctttct aaaccgtcaa 840
 ggctgtcgtc gacaccaaag tcagtgtcaa acctgtatcc gggcattgcg agaaactcct 900
 gcaagaatcg aagctcaggt tgaatgggca ggctgccgtt gtcaaagggc agtgcgtcaa 960
 aggagcacgg ggagtgtagg ttgggcatat cctcggtatg cttcattgaa gaggagactc 1020
 cggtttcgag cgactggggg atgtgctcat ccaagtgatt ttggctcgca aataatgtca 1080

agccgggggt ccattggctg tgcattttct ctgggtttgt gctgccagta gacttccaca 1140
 tggtttccca ctgtttgaaa cctcatagt cggcaccaga tttgtttctt ggcgtatctc 1200
 catgcccggg tccatctgcc tcattcgcg c aatgcagacg tgtcaacgcg cgctcaagcg 1260
 actccaggag tgccacttcc gatctcgccg agtccccagc agcagccatc tcgcggatca 1320
 tctccaggcc ctggtgcagt tcacctgaa actggctcga ttggccttga attgagcggg 1380
 caatgagtgc caataaagat gcccggcagg aactgtactc agcatacgaa gcgcgagcga 1440
 ggccaggccc attattttgc aggatactgc acagcctcag ggcttcctta gcagcttga 1500
 tgcaggaatc aactagctgc tgacggtgct ttgtatggtt gttaatgaca ctagtggcca 1560
 ctgcgcgggg gtcactgttt tgtgtttctg gtgaagcggg cgacgagcga gaagcagccc 1620
 gggtcagaag gagtggccgt ccaataaaca tagagacaag gcagtattcg agccggagat 1680
 gtatacatga ccgataatga ggatgagctt gctggtaggg tacgtccttc tgcgcctgga 1740
 cctcatccgg cagcgtattc caccaagctt ccagattatt cttctcgttc acaagcctca 1800
 acaatatgga tgagcgctcg tgttttggac aggtgcgtag taaaaacctg tagcattgtt 1860
 cagtcgcaag cgagaggacg gataacgagc agacgtacat ctcccggcaa agtcctcta 1920
 gcctctgtgt gagctggatg gacgcgacca tataaggat aatctcgcac tgcagatcgt 1980
 ctctatgcgt gggtaaagga gcgtcgacgt cgaatcgggt tgctcgacaat ggccgaccat 2040
 gaaagatgga gattttcctg tctttcatca gcactcacgg tattcaaate tgcagcgtaa 2100
 tgcttgccc tegtacctt caagtgtgta tgctgtccac catacgcggg tctcatctc 2160
 gaccatggcg gcgctcagcc cgggtgccagt gtaccttctg tgcaaccctg tctgcatccc 2220
 tagtcggttt gtgagagtaa tgtaaata tccaagacca gaggcgtcaa gggggagcgc 2280
 atatatagcg aaaagtaagc atgcctggac gctttcgagg gaggatgctt caattatttc 2340
 gggtaaagac cgaattgctt gctgatagaa catcgcttct agtgcattct cagtgaattc 2400
 cgctgacttt cgagtgggcg agtcgaggta tgcgtattgg gtggcaatgg cgaagacagt 2460
 gaggactata ctacgaccg cagcgtctt atttccaaac cggccgcggt cgttgtatag 2520
 agcatccact ttatctgtaa gccactcctt gtctaggacg tagtagtacg tctctgcatg 2580
 cttgaagaac acattaatca agaaatcagc aatgtgacgc ggcgggcagc aggatacggc 2640
 tgctgcaata ctgtttgcgc ccgagtgcag ctgttcagca cgccaataat tggaaacttg 2700

gagaggatcc tgagtttgct gcgctgccat tagcttctga tactgggCGT atgtgaagca 2760
 tgaaatgtat accatgcggt cctcaatgtg ccgcttgaca cgcacgaga aattccaata 2820
 cgagaactcg ccagagtagt ctaccacagt cttactggc ctccattctc aagagtagat 2880
 tgacttacgc gtcgtcgtat cctcgaccgg attgatagtg cagacttcgt cctcaattga 2940
 atcttcttct ggcgctgctg agctgttatt ctgttcacgc tcatctagtg ccctagccat 3000
 tcggcgtagg ctgtcaaggt cgaggtcgat gccttcaaac ttgtgcttca ggattctctc 3060
 catgtacatt actcgtctta acaactcatg gatattgacc tccggcgccg gtgtcctagt 3120
 catacagaat tagcgttccc ctttgcaacg acaagtgtcc aaccatactg caccgggacc 3180
 ggggaatgat catgatcgac ggatgatagg cgcttgaact cgcaagtgcg acggagatg 3239

<210> 1999
 <211> 1288
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 1999

aaggcgatga tcgagcttgc actgcacgga agcgtagata gcgagcggat ctacgggaat 60
 agccgcatcg ttgagctggg gaggaatag gctgaactgg actggccagc tgaagcagag 120
 aaatatggag ttggcttggg gaaagatgca ggacatttgt acgccacaac tcggacccaa 180
 ccggtcaatt tctccccact ctccaagtac gaataaaca ttctgaagct tgagccttgc 240
 ctttgctgga gacccaagtc aatcgctcac ttgacctcat tgctgcgagg taataaaagc 300
 agtaaccctg taattcgcaa cagcgagat taccgcagta aaaaaaatcc agtgtctata 360
 tcttcagtct catgttggcg gccacggttg aatactatgg atatttgggg aaatagttgc 420
 tacacctgtg catcgcatat ctccggcggt agggagccag tcgaaacgtg ttggacgtat 480
 accactttga tcttcaacta ttacagacgt cacagagtag agatagtcta gattaaaact 540
 ttacagcaga aacgagagta tctggcattt gcagttctgg agtctaggta caagcaccaa 600
 agcgggcata agcgaagcaa gggaaggcac tacatacgaa ataaccatct acagctgtga 660
 taagatcatt tctgctgctt tcaaagacaa ctctcagtc ggctatgatt atgatattcg 720
 ttaggcgaga ggatcgagtg gacctcggtg gccgggttaa ttgttgacaa caagttagcc 780
 tgatcaaata gacagacagc gaatccgaag aggctgcttg attctcaggt tgacacgaac 840

tgtctcaciaa gcctgacgta agccctgtaa tataatagac ctaacctgag acctgcacat 900
 tgcctagacg gaggttactc gaaggattca ataaaccctg ggacagtccc gccttaggta 960
 gcaacagtgt ttttctgaat caccgcgat tgggatcgct atatacgatg taattactcc 1020
 tgactctgca acggcgagca tacgcaggtg tatgaataac gcagcgagtc agttgaacgt 1080
 ttttcaacgt ctggtaggac ggctcggccg tcaccgtcgg atctgggaat acacactttt 1140
 cgccataca tgtaaatact gtgtcatgcc ggctagtcac aggctatcaa actacatgtc 1200
 ttatctagca acagaatcag cgcacgcgcc ctctatcag agtaccaaga acatgctcac 1260
 gagcaaaggc cggcaacaaa caattggg 1288

<210> 2000
 <211> 1196
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2000

caggagccgg cgctggttcc acgtcttaac agatgggatg actctgtaca tacatacatg 60
 gactctccaa caaactccac aacttcggaa aaaagccgcg acggaccgcg gaagtacgcg 120
 tacaaccacg aaggcgcccc tgagcgggaa acacatctgt agcctccac tccctgcaat 180
 atttccggca aggcctaact ataactgcat agatatctac cctactgggg cttctcagtc 240
 tccgagaagt atgccagga gtctgtcggc aacaaccca atgcctcgcg tgacaatgtc 300
 ctaccgtct ttgccagtt ggctgcagtt cgcataatg cccagcgtgc gatgatctcc 360
 ttgtttgaca gaaagcagca gtatgtcatt gcagaggcca caccgagatg ttgtctgcgc 420
 ggcgagagtg gccgcgatca ggctgatggc ttatggctgg gtgtgggcca gtttccgcgg 480
 cagcatcccc atgtgctacc acgcgatgaa gtcgtttatt gacgatgaga gtgatttttt 540
 tgtcgttaat gatctacca aggacgaacg gttctgcgac cactcgtgcg taacgggtca 600
 tccgcacaat aggttctatg tttccgtgcc catccagtcg ccggacgact atatcatcgg 660
 agctgtggcg gttctggaca ataagccgcg tgatgggtatt tctggtgagc aggagcggtt 720
 cctctcggag ctgcgggcta cagtgatgga tcatctactt tcacaacgcg caatgcggga 780
 agagtaccga gaagaaaaga tgggccgcgc tcttgactg ttcgtcaaag gcaaactcga 840
 cctaaacgag tggttcgaca gcggagagaa ctcaaactca cgacagcgag accagatggg 900

ccgaatcaac aggaaactgg agcaaatagca ggtttctgaa tatagcagcg gtgagaaggg 960
 taatgaacaa gggaagaagg cgagtagacc accgcgagac gaaaaatcca agcacgagtc 1020
 gcctgtccag aagtttatta acgacgacaa tgagcggaga gactcgggga ttgggaccca 1080
 agacgtacag gcgctgaaga agcggccgaa actgtcgcca accaccagtc acctgcagga 1140
 cactctcgct ccaacaaatg ttcgatcagt ggtcaaccgc gcagcatcga tgctgt 1196

<210> 2001
 <211> 2797
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2001

ccccaaaatc ctgtacaggc ttcccgggca caagggcact gtcaatgttg ctcgattcac 60
 gccaaataat gagcctatta gtaagcccag ctgttctgaa attccgagtt tcttatgcta 120
 actctaacct ccagttgtct ctgcatcgtc tgaccggaat ttgatgttgg gcgaattggg 180
 caaatgaaat tggagcattt taaggagagc aacttggcct tggtttgcct ctagaagccc 240
 atttctcaaa agacgattga tctatggata ttcacgactc tgagcggact gaccgctacc 300
 gtgggataaa tgcgctgtga gccaatcaag tcgtccaatg ttgtggcaca ggatttacca 360
 gagggaatac gaacagttgg acgcacctct tcaaatcaaa ggggtggggc ttacactgga 420
 cgtcttccgg gagactatcc tatcgcgaaa ttaaaaactg gcctattcca cgagctgggc 480
 attgatttga tagcgggtaa ggatccgctc atctgaagat gtcttattat cagagctttg 540
 gactagggat atcctcatgt aactgcac acatgagcaa ctttgatttt gatagtactt 600
 tcccatggat gaagcatcca gatattcctc gacatacata ttccatatgc tggacttta 660
 ccataatcat ctatgatgga ggagttgggc taacatatca cctcagacca aagcccaa 720
 gagtaccctg ttttctagct tcgaattcgg tataggggag aaggtttgtt cataggaaat 780
 gtcacccgtt caagaattta tgctacaatt tgctctactt tcggacatgg gagatggaaa 840
 ggacttggtg gtagaggcac cttgaagtca cctagcccct gggccggcct tgaattctgg 900
 tcggctttga ggcaaaatta gctatttcaa ctggcgtttt gagtgcctac tttaacattt 960
 tgtgtattca atgaacgagg aacgtccgaa catcataaac cggccatgga ttagcaagaa 1020
 atgcgtctaa tacgtacagt cggacgcacc ttctctaaga gcactatcga ccacctggca 1080

ttacagtttc catttcattt ctatcagcat gtcagtcttc cgagatcaat gcgaccaggg 1140
 tctgtgtcga ggtgactcca cacgcatcca tggctatccg gtctcttccc tttattccga 1200
 taccaccgat gccattgcag actaccctca cactcccaac ttctcaaact tttgtccaa 1260
 ctggagcctg cagctcgcat catgagggtg gacgcagtgt gataccgggg aggaaacctt 1320
 ctgtgcgggc ttgtacctca ataatccgag atccaacat tcattggaaa ctttttaatt 1380
 tagttctctc cacggtcctt ttccttatca accttgctat ctgtatgtct tgatttgcag 1440
 gtctgtctct ttggctctac taacatcctt agttatcacg ttcgtcgttc ttcgcgctat 1500
 tcaagggccc tggatttaca ttatcttgac cttcatactt ctgacgattg gagtagtatg 1560
 gtgtcacgct ttgtgccgtc tagttgccgc agtttatcag tttccgaatt atgctgccga 1620
 ttgcacactt cctatcgaga tgacagagac tgctagctat gtgcggccaa accatcctat 1680
 tagtgtcact ttagctgggg acgaggagcg ctccaccgga agtcatagta ctggccatgc 1740
 tgtgaaagtg acgacaccac cgccggcgta cggctctatg agagacagtg tggtaagtga 1800
 cgacactctg tattttgaaa cgcacagct attgatctac atccagagac tcgatccttg 1860
 cctacttcac tggcagtgcc ttgagaacca gccggctgca ctgcaacaca cggaaaggag 1920
 gaatgagaat ccaaatcgcg agccgcaagg acaccggccc ccaagctaca tgtccgacaa 1980
 cagcgtcgag ggttgaagcc caaccacatc gttcaacgag catttgccgc ggtgttagct 2040
 ggtcgtgac ctgggtgcaa ttcctgtacc gattcagaag ccgccacgtc ctctacatga 2100
 cgcttttctt taggagctat gggtaagaa cattggctga ataagtgtgt ttgggcgtcc 2160
 acttaaaatc tgcctctca tccccttttc cgtacttatt aagcctaaac agttagtagc 2220
 ataattaaaa aactgagaaa ccgctacgac aagacaatgt agagcaccaa caatcagatg 2280
 taatagggcc aatgtcaata atgtaagctg ggggtggtga gagtcgcat aagataggag 2340
 cggagatctg gtctctggat ccttgaaagc tcacgtgcag tctcgactct agccaacaat 2400
 tgtattggca ttgtcagccg caacctaaag atttttgagc aggacacctg tgaccatcgg 2460
 cgcaaccggc taccttccga aatagtcctt gccacgtctc catgccgtct ggggccggtt 2520
 cgtttctgcg gttatgcgct taggatgttg gaggtgcag atgtccgtct gttcgggtgg 2580
 gatgacgggc ttggtcttgc ttctgtcact atgggtgtct acagcgcagg gcatgaggtc 2640
 tggccagatc agacacctaa ggtaggctta tgcgcctagg ccagattata tgaatcgtgg 2700

aggtaacctt tcaactggaaa ttagggccgt ataaaagcag atgattacca cgggtataga 2760
gctacctga gcagccgctc cctgagacga actaggc 2797

<210> 2002
<211> 2904
<212> DNA
<213> *Aspergillus nidulans*
<400> 2002

taaaagagat cttgccatcg ggcttaggat actcgatctt ctgcattca gatgccagct 60
tagtggtgc cgcattctgt cctgggtgtt tgagcgcca cggggtgtgg ccgcggaaaa 120
tgtaagcctc aaggccggaa tacaaaatac ctccgtagat accgaggggt gtgctgaaag 180
acggtcgcgt gtttcggacc tcgtacagct ccttccaaat cgaagactta cggagtgagt 240
cctcgtagtc gaataggaac acagtgccac ccgcgtcatt tctcagggcg gcgaacgtag 300
actctgctgc caagatcgcc gacctcatcg ccgtatgcgt gcccttgatc ttggggacat 360
tgaggaaaacc tgcgctatca ccaatcaagg caccctccggg gaacgcacac ttagggattg 420
actggttaacc accctcgctt aatgctcgag caccgtagga aatgcacttt ccaccctcca 480
agacctcgcg atacagagga tgatgcttga gcttctggaa ctctccatag ggcgacaacc 540
acgggttcgg ataatacaaga ccgactacta aaccaatgct gaccatgttt tcaccaaagt 600
gatacatcca agcaccgccc gtagtatcct ttggcagcgg gtatcccatg gaatgtgtaa 660
tctcgcccca cttgaacttc tccggctgaa tttccacac ctcttaata ccgattccat 720
atgtttgcgg ctggctgtcc cgtctgagat cgtacctctt ggtaacttgc ttggtcaagc 780
taccgtgaca gccttctcca agaagcgtga caccgagcatg gaactccatt ccccgttcaa 840
acgtatcttt ggcttgacca tcccagcaa caccgagatc gttggttgcc acacccttta 900
ctgaaccgct cgagttgtaa acgatttcac tggcagcaaa tccggcgat acttccactc 960
ccagctcctc agcccgctcg ccgagccact ttgtcaactc gttcagactg atgatataat 1020
tcccatgatt gttcatttgt ggtggcgag gaatcgggat cgacgaattt ttcgtcaaga 1080
accgcatctt atctccttg gccggggtgg cgccttcaaa acgggaagggt ttatcctccg 1140
acagccagtc cgaaataac tcttccagag ctgaaggctc gagcacattg ccggataaaa 1200
catgagcgcc aatctacca gccttctcta ggacgataac gcgaaattct tcgtttccgg 1260

cttcattggc aagttgtttt aatcgaattg cagcgctaag accagcagga cctaagaggg 1320
 aagccaattg tcagtcacat gtgtgctttg caagcaaagtg tgcaaagcgc aaccacaaga 1380
 cacaggttgc ataccaccgc cgacaatgca gacgtctacc tcgtccgact cccgctcaac 1440
 ctgccgggga tcaaagtgc cgttctcatc ggtgagattc cttgagatcg actgcgaaaa 1500
 tgcgcggaacc tggatcggcc tggagtgtgc tgagcagcgg acactcgccc gtctacctga 1560
 tgttgcgatt gagccgcgag aactgatgca taacgatgac gatggtcttg aaagcctaga 1620
 ggggctaggc cgagtctcac gcctcaatag gcgcagcacg actcctcttg aagccatgaa 1680
 gaatcgcggc gaaggggcgt ctggctctcg agggtcgaat ggcggaactt gctgagtcta 1740
 cagagcacag tgagacataa ctcttgctgg agcaggtact aggttgtaag taggcgaatg 1800
 atcactttgg gctaattggg ttcaactggc gagagacccg tcgagaaaaa accatagccg 1860
 cccgccgacc tcggttacct gggatatacga ccaataagag cagcggtaat gacattcgct 1920
 aacggagtaa ccgccaattt ccgaccgagc agctggagtc aggcgttggg ctactctct 1980
 gtacttgccg caccgcccga tagctaggaa actacagacg cttacgatcg gctcacctgg 2040
 tgctgcccc a gtcgtatgta cgatcaaagt acgggtagt cgagaagacc tctacgggcg 2100
 cgggtgatca gaggctactt cctctttgga gagcggagta caagtatgga tttcaaggct 2160
 ccaattcttc atagcagttc ctcataggtc taaagatctc aatattcttg ctcttggttg 2220
 cttaatgcaa gcgaatccat tttgccagc cgccactaag cacagaaaat ccagtccatc 2280
 gtcatagtct atgaggctct tcgcgatcgg atctagttaa tatggttcgc tcgcaagttt 2340
 gatgtcagcg accaggatta cgtatacata taataataat ggcgtatata atccatgcgc 2400
 tgccggccaaa atttccttag ttgaaaaagg aaaaaataa aactaaaact aaaaaatatt 2460
 tcagatatat aacgtgcctg tctgacaatc cccaaggaag atttattgtt tactatgtct 2520
 ctacaggtaa agggatccac ctgctcgctc ggtcaaggga gggtgcaagt atggctgaga 2580
 tcggtatggg gtatgcagga tacctgaaaa ggccacggtg gcatgtgtcg aacgacagat 2640
 cacggacaac taatccgat agccgcggtg atgagcgctg ctttctcgaa aattctcttt 2700
 aatttgata tgacctatgc aacactctaa atgttggtgc aatgctagga aaaagtcacc 2760
 ggtcgttggg atgataagaa gcgcgagagc ggtccaatca gcattatatt gctagggagc 2820
 gccaggagt gaggcttgca tttgcagaga gcgaaagcga tagccgccat ggtctttgct 2880

tgaaagacga ttaaaaacac gatt

2904

<210> 2003
<211> 1110
<212> DNA
<213> Aspergillus nidulans

<400> 2003

acagacatcg gccaccggtg cttgggtcatg gtgaggttct ggcaatgaag atcctcccag 60
acaatggtcc cggcctgttg cgggtctccc aagccgattt tgcaatgtcg cgagaagtga 120
aggaacttgc atacacctgc tactggcgcg ttgctgtctt cgccggtatg gaccgtgaga 180
tccgccttgt gcggcgtcag ttgcgagttg tagacatggt agaggtgggt cttatcggca 240
tccgagacgc ggtaatcata ccggatgggc gtatgataga tgtgatataa tcgtgagtgg 300
gcgagatcaa ctccctgccg gcccgcgga tccgagcccc ttgacgggtgg gtcttgggat 360
ataacggtgc tgccgccccg tgatttggtt tccgaagaag tcatgtttgc caccatttat 420
tgactgtaga agctgtgttt tgatcaggag gcaggctgcg cctccttat atgctctctc 480
gccatcctag aggtaccatc cctcgatcac ccgaaactgg aaatacgagc ttggcatgga 540
ggctgagccg tcaatcttat tattggtggt tgtatatcca tggataagac gattctttcc 600
caaagacgat tcgtcatagg gatgatcgtc tatgagacga agacgggcca ttaagatcca 660
gcgagttcaa gccttcaacg gtgctggcca gccggccgtt tctgttgacc aatcagagag 720
atccgacgaa tacgatcatc ctaaagggtt agcgtatact tccagccgga caccgggcag 780
accgaggtct cttggcacag cttacggccc gcaagggttg tatccccgaa ttggcctggt 840
catgcaagat atacaagatg aattctgaat gggcattgta cgcagttaca atccatagaa 900
ataggacta catgtgcaac actgtatgcc tattctgcct gagatttgat tatctctttc 960
cccttggtgca tagtggtcgc cctacgccc tccgtaaata ccaagtatcg cacaacagtt 1020
acggtggatc ctcttttatt agagtctgct aagcagcaca tagccacact gggcagggtc 1080
acgtgtcgat attctctaga cagatcaggc 1110

<210> 2004
<211> 2622
<212> DNA
<213> Aspergillus nidulans

<400> 2004

tacgggcatg gcaaggcatt ctcaccaata gtatcaatcc aggaaactac tctgttcaag 60
gactggagat aagatgggtgc cccgtgcagc aacaaagcat acggggcgac gttagagcgc 120
ttgcttacct tgctcaggac tcccaaccaa acaccgaatg caactagcag tgctccccac 180
ttaagtaata ggatatacgt aatactgggt cgcaagaaac catcttctta ttgctagcct 240
tactttcggg ctttacgtat ggggctttga actatgcagt atggaggaac gtggcatgac 300
atggacctat acagcattcg ggcttctct gcatgaagat cggaggagag cttggtctct 360
ttcgacggaa aggaagatct tgctgcttcc ctcttgattc agaatcggtt aacctggaca 420
tcatatcgca tctgcatgca ataaccagg cacctgaacc cccacatctt accacgccga 480
ggcattcata caaccttcca gcagtgcgc cctccctctt ggactacacc aacagtata 540
tagacacggc gtttaagttc agcatgacct ggttttggct tgatcggcaa atcgtagcag 600
ggcgtcaaag aaaacaaatc ggatggtaac tggggccttg ctgttggtgc tattggggga 660
cgtcttgccc gccaacacac caccacacc tgctgcacca catggattct tgcagactgt 720
tcgggtgtcca ctatgctcca ctgccagacg cagtatgctg agcctgtcca gtcagagcac 780
caagggttaag ctgcgtaggt cgtaaccgtg catgtgcagg ctgcaatata ggcggttgta 840
ggcgtgggag tgggcgtggg cgtgggtgaa agaaggctgc catactgagg tgaagtacgt 900
gtcagatgta acaggcgtac tcttagtgag gggaactagt gtaaggtagc aatcctagtc 960
caggatagcc aggaagaaga gatataaag gagcctcgtc cccaagggtt tcttctcttc 1020
cctatccatc tgcacacct cgcgacttcc tcatccaatc aatcaaccaa ccaaccaacc 1080
atcttccacc ggtttatcta ccaacaaaca ccatcaacat gtctccctgc acctgcaact 1140
gctgctccgg cgagtgcac tctgtctctt gcagctcttg caaggctctg ccacctgtct 1200
tcccacctga cctaagcctt acctgctaac gtcacctcac agcactaaat tcgccaacca 1260
gttcgggtcc gagcgagcat ctctcccgtc aataaatacc tcgagggtcaa cactgaatgc 1320
ccggcgatga caaccgacat aacaagggc attcatggtt tctgtctggt ccggtagagg 1380
ttgaggatgt ttgttttgga cgctggggct tctgattttc aggcaccttc tgtgcctcgt 1440
ttgtttatga gtagattatt gaaatgagga atgagatacg tgcacctgca ttagcttctt 1500
ctgggaagta ttgtctcgt agttttcgag tgggttgta acggggtgta gcccgtaact 1560

gaacacggcg tctagttggt cagctgccta gtcgcttgag atgaattggt ttcaagagag 1620
 ctcgaaatcaa cgctgtatgc aattaaataa agcagtagtg tcatgtttgt gtattctaga 1680
 tctatgttat cacagctcgt cctttgccct aggagccaca ttgcccggt cctcgccgcc 1740
 agcacaaaaca gccggtgttg tgacaagcat cgaataaaca cacttttcat cctcagcgac 1800
 cttcaggatc tcgttatcct cgccacagtc taagataaca gttgttgagc gtgcagggtcc 1860
 gttccagcac ccctggccat tcttatactc caacgaggtc ttctgcacct ggatgatttc 1920
 acctgcttca ttgacctcat caacgctgac ggacccgatg cgctcgaacc tgcccatccg 1980
 cgaagatgag cgcctttct tggggatctg cttcgtttgg tcgaggaaac agtgctcgta 2040
 ggtatactcg ccagcgtcct tctggataca aacccttta agggcgcgga agatggaagc 2100
 agtgccgtag tcagtttcaa ggtcggcctc ttctttcttg agcttggtct ttgcgtcggt 2160
 gaggtccttt tcagctgatt tgacggcgtc gcgggccatt gtgacggcct tggactcaga 2220
 cgctgagtct ttatccttgg gagtaagat gccgctgctt tcgaggaagc ttgtgaacga 2280
 gttgaacttg tcttctagga atgtaacaag agacggagga agataggccg caagtttgta 2340
 aactgatacc gtcagcaatc gtccaggaaa aaaaaatgtc aacataccta tatcaggttc 2400
 atcgtcgccc tcgttctccc attgctccca gtttatacct gattcctcgc tgtcgggctg 2460
 ggaaatagct tcccagtcgc gatcacgcgc actgttgaaa acagtgtccg caagtccacg 2520
 agctgcgtaa tcctcccagc tgcgcacagc gcgcttgact ccctcatcat tgaagttcgg 2580
 gttatactcg actttgaagt tggacaaaat ctctcaagt tc 2622

<210> 2005
 <211> 711
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2005

atccggatat ctagggccgc ccgtttcatc agcggcgccg gagacgcgat gtacctccag 60
 acgccgtgtc catgaacgag atccacttgt ccgttgcaag cacaagctcg gtcagcgggt 120
 gctctttaac cttccccgcc gcaacatccc gtcggcgctc gcggcgctcg acgaccagtt 180
 cctcgacgat ttggcgacac gagtgcgacg agaaattgcy cttgatctgc cgtttgaggc 240
 tcgtcgcgac gcagtaccag aaccgctgtg gattatcatt gtacaagctc tgatattcca 300

agcagcagtt gaccaagatg agcgtctcgt tctcctgcag ctctctcccg cgacgtttgg 360
tcatgggcgg cgacccttgc gcgggggaat cgaggctctg cgggtgtgtgc gcgaatgcat 420
tttcttgttt atcttgtggt gtggactgcg gctgcggacc gggctgcgaa gccggtgata 480
cggtatgggg aatattgaag ggaggagggg gaggagggtta cggcggttgg tagtgggagg 540
tatgtgcctg actgcccttg ttgacgaatt ggggactggc gctcggctgg ggcgccggag 600
ccggcggagg gaccgttttg ctgaggcgat agatcggagt gcggccagac aagtcggggg 660
gcttggtgaa cttgacgggg gccatcgcca tggccagga gctggctgga g 711

<210> 2006
<211> 207
<212> DNA
<213> Aspergillus nidulans

<400> 2006
gtgcgcgcgg tccactcgtc agcacaagct cgcgccagtt tcgccgccgc aaagttgatt 60
tccgccgaca gggattccat ctggaatcc gccatcgcaa tggctcgtgga gttgaatgtg 120
ttggtttcga tgatatccgc gcccgcttga aagtaggcgt tgtggagagc ggcgatcact 180
tgccgacgac tgagtactag cagatca 207

<210> 2007
<211> 2562
<212> DNA
<213> Aspergillus nidulans

<400> 2007
tcagcgtag cctcttcgag taggtaaacg gcgttcatca tactgagctc cgcttgcaat 60
ccccgaaatg agccttggtc gatcttgtcc atcttgatgc ttggttctgg tagcgaactc 120
tctcgcgta ttctggtgaa gatgcgtttg cgtcttggtt tcaactcctc ttatccgagt 180
cgtctcccta ttttttctag acatgtgaat gtcgcacgag cagatgggac ctgacctacg 240
ctacatgaat tgggagactg gagtgactcc ataataatt gattattgat ttcgaagaat 300
cttcaggctc aggctcgtcc atgactcgaa gttggataac cgttgagaca tcacggccgc 360
gtcgtccac tcgcatacag cctgtctcac tcgagattgc gactgtcccc atcatgatag 420
gatacgagga ctacatgtcc tggcctgtgc gccttgctcg ccttgcttga caggaccacg 480

ccgaatagcg cacactcgag ggacctcgtg cgaggagcag acaatgggtc ggatacgtag 540
 ccgtttggat atcgagcact ggcaactgca gggagagcgc cgttgaaata aacttgcctt 600
 agctgaacga tgcacggcca cttgtcctga tctcgactcg agtcggtcgc ccgcggtcgg 660
 aagtggagcg atcaaggcac agatgtcctg cttcggcagc aaggtgagta taacggctgg 720
 ctgctggga cgggtgcggc ggctggatgg acgatcctgt tcgttgtcct tcacggagac 780
 ggagaagac gagaccggac tagctcaatt gactcgactg agtccactga gcctagtgg 840
 cttcttgaag ggatgaccgc aacatggatt tcttgctca gcccagacg cctgacttgg 900
 taggctctgg ccgtcgcgcg atttgcgaaa tggagtcagt acacttgaga cctaccagca 960
 atgaattgcc ggagcgcggt cgctataga catctgggct tgccgtcagc cagccgcagg 1020
 cgtcgccagg attgccgtcc tacttgtctga gtgtcgagtt gatttttacc tcgtttctgc 1080
 tcggagcaat gcgagtgtct tgggagcgaa tatatggata gattggactc gaatgtcgt 1140
 gcacaaatca atctcagcct gctcaggtct gactgacgag cgatttcaag cgtctaacc 1200
 ttcgctagca atgcgtctac gtgtcccgac gacagtacac aacggctcgc acgattccac 1260
 catccaggta gtctaccaca tttcgcatcg gacagccttc agctcttgag aaccacaaac 1320
 cggccgtcgt catcagctct gtcctcctgg tacggttggc ggtggccatt taacagatac 1380
 tttggccttc cgaacgagat gttccatgta tacagaacag ataccgatgc gagacggcca 1440
 gagggccctc tgctgggtcat agacgaacag atcagaggag aaccgggaca cagcataagg 1500
 aaggggtgctt gggaatgaga agatgattga gtaaggtctg cttcacagct ccgtgctta 1560
 tgtggctgtc agagacgact ccaagtgact agtctacacc tgctggacac tccatccgt 1620
 aaccgtatga atgtttggc cgcggttctg gggacgggta tgatgccatt acaggttact 1680
 ctaagcgctg caagctccct accgcgcagt gcagttgcac cggatcatcat taagacggag 1740
 attctggggt gtcaactgac gcacgtcag aattgtctcc gtattcacta actctccaat 1800
 cgaccactct aaagtttgag tcaagtctcc catctaggcc tggttgtata aagacattta 1860
 accacgtgag tattgtgaga agttgcagca cctcacgtt cacctgccat actatcagga 1920
 ttaatattta aagcgaggat tgagcaatct agcagaactg gtgtcatatc tgcacgcaac 1980
 gcccccggtt ggcaaggcct cgagctgcta agatagattc tccagtaaaa gggacgctac 2040
 gcgtctgata gcataccata gccttggatg tgcgtttatg acgcacgaca tatagtccac 2100

ccccttcctg ttcaatcagg aataatcgtc ctcccttgtg cctgcgacgt aatgtctgta 2160
 gacaccogtg acagcgatct caaacggacc tgcaatcggc agtggtccga gcccggttgt 2220
 gacacataag accaggtact tgtcatactc atgtaggggg caaggcacca ggcgggacta 2280
 gacggagagc agagccagga gtgagggaaat agtaggttgt tcgcacgtcg cttcccccta 2340
 tgataccata ctccacagcg aactctcgac ttagaaaacc agctcacctc gtctcgtac 2400
 aaatacaaca accttccaac cgagcctcaa cggctacgta tgtgcatgtg catctgcata 2460
 tgcattggcat gaacgtctgt ccatgacttc agtccaacga acacatgcag ggccgccggc 2520
 gtgttgtggc actcagggct gaccgcctt tgccctatct cg 2562

<210> 2008
 <211> 2966
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2008

cctgccactt aggctaccac agcactatca ttggcaactt gtgacgtgtg ttgttgtacc 60
 ggggtaaaaa agggtcaggt ctgcacataa atatcggggc cgcgcttttt tctgcccgtg 120
 ttcagcacat acggcttaga ggcgtcacct tcaccacgcc tccaactacg agaaagcgca 180
 aggcggccct ggcgcgctct ccacttcta ctaccgccac ccaatcttgc agccgctcac 240
 gagccgccac cacaaccacc gcggtattcat ttttgacat tctgatagc ggaagcgctc 300
 gcaagaggca gaaaaagact aggaacacgt gccttgattc tgctgccgag ttgacttcaa 360
 cgaactcatt caacttcgag agggaggtgt cggaatctcc ggcaagggtc gaagcgtctg 420
 aatttgttac ctcaacgtca acaactatgg agtctgatga tgatttcatt agtggttgc 480
 cgagtgcgga tgatttcctg ggcaactcagg gtagcgatga tgaaagctta ggagatggta 540
 agatgtccgt ggggtttttgc ggaacttggg tgctgacttg ggctttgtcg cttcaatcag 600
 atttcggcga cgacttcgac ggtgggtttc caaagacaaa gatataattt cgaatacgcg 660
 gaaaccatat gaggtggact tcaaagtcct tagcccgga gatatcgaac gtgaacagaa 720
 tttgcagatc aacgaagtct catcaatact cgggctgccc ccagagtcgt cggcaatttt 780
 gttgcgattt ggccgttgga atcgggaaaa actgatcgag tcgtacatgg accaccgga 840
 attaacactg gaggaagcag gcctcggaac caatttcgag tcaacaccga agactgaagt 900

ggtaccgggt ttcacatgtg atatctgttg cgaggatggg gatgatcttg agacctatgc 960
 gatgcgctgt gggcatcgat tctgtgttga ctgttaccga cactatctcg cgcagaagat 1020
 ccgggaagaa ggagaggccg cgaggataca gtgtccgggt aatgactgcc acatgattgt 1080
 cgattcaaag tcgttaagct tactggttac ggacgatctc aaggacaggt tagtcttcct 1140
 tattacttga ctgcctatat gttcgctggc atatcaacta atttcggggc cagatatcaa 1200
 acgttattaa cgcgaaactta cgttgatgac aaggagaatc tgaagtgggtg cccggctcca 1260
 aattgcgagt atgcagtcga ttgccacgtc aagcagcgtg agttacatcg cattgtaccc 1320
 acagtgaat gtggttgtaa gcactacttt tgcttcgggt gcactctgaa cgaccaccag 1380
 ccttccccat gtagactagt caaatgtgg cttcaaaagt gcgaggatga ttcggagaca 1440
 gccaaactgga tttcagcaaa cactaaggaa tgccctaagt gccattcaac aatagagaaa 1500
 aacggcgggt gcaaccacat gacgtgccgc aaatgcaagc acgagttctg ctggatgtgt 1560
 atgggcctat ggtcggagca tggcacgagc tgggtataatt gcaatagggt tgaggaaaag 1620
 tcaggcgccg aggctcggac tgaacaggct cgttcccgag cgtctttgga gcgctaccta 1680
 cactactaca accgatacgc caaccatgag cagtccgcca aactggacaa ggacttgat 1740
 ctgaaaacgg agaagaagat gacgagtctg cagtctcagt caggcctctc ctggattgaa 1800
 gtgcagttcc tcgatacggc gtcgcaggca ctgcagcaat gccgacaaac actgaaatgg 1860
 acgtacgctt ttgcgtacta cctggccccg aacaacctga cggagatfff cgaggataac 1920
 cagaaggatt tggagatggc ggtggagagc ctcagcgagc atgtttgaga agccggtggg 1980
 agaactggcg aatctcaagg tcgacatctt agacaagaca gcatactgca acaagcggcg 2040
 agtcatcctg ctgagcgaca cagcagagaa tctgaagaac ggtatgttcg gcgcattgtc 2100
 ttccttagat tcttccaact aacagacctg gctaggggtt tggcaattca atgttgaatg 2160
 gtagacctag agtcgtatag atttagcgag catgcttgat tatctgttga aggcaaggac 2220
 agatgggagt ctgcggttaa ttatggatat cttggccgat ccaggtcggt aaatgggtac 2280
 tagggaactg gatcgggacg ggaggggatg ggatttaaca cttttttttt ttttaacgacg 2340
 tacatgacga gcagcacatt acagcgagat ctggatctgg tttgcatttc atcgcagggc 2400
 gttgcctact attccccaca ttatgaagct tatctatact ggaaggagag tgcataatcct 2460
 ttcacgggtg tatcaatatg catctttatg tcatccatct tccgtctcg cctcagcact 2520

tacggaataa gaaagtggct gcctgcctat cgtgggtagc gaagtacgag tagttgccac 2580
tagttctatg cttgggctta cgtagcacta ctggattagt atgctggggg cattgtgttc 2640
ccatcagata aggccaagag ctgttagtcg gctccgcggc gtaacctgta cctccgcggc 2700
tcggagggtta cgagcatacc ggaatggcag gtagattaga actgcagctc cgtcatcgga 2760
cggacctcgg tgtaaaatca gttcccatcg gttgttagtc atgggtcatt caggcttggg 2820
ctgattcagc ttgaaatctc gagttttatc tttttgaagt atattttcat tatgaggctc 2880
atggatttaa atttaataag cggaattgag attgtagctg tatgtagagc gtagatgaaa 2940
gtaaccata gtcataatct tttgac 2966

<210> 2009
<211> 1581
<212> DNA
<213> Aspergillus nidulans
<400> 2009

aataaatggc ttgccccagc acttcaaagg acatgctctc gtgagttagc cgaacgagct 60
tcgtttgcta aacgtcatca agaggcaacg cctcataact gtgctttgct taccgatgac 120
tcggccccta ccggagaatg tcagctaggg ttctgatcg aggataaaga tctcccagag 180
gaggattacc aatgccatta ttgcaaggcc tacatcttct tgactcaatt taaatgccac 240
aagtccggga aaacactatg cctggtacac ctggatgcac atgattgctg tggggaaccg 300
ctgtcgaaaa agttgctggg cccggaccac aactacgct acagagtcag cgacacggaa 360
ttgaagagca tggctctgaa ggtccaggag cgttccagga tcccgaagc ctggggacag 420
aaacttgaca atattctgga agatgatccg aagccccagt tgaaggtcct tcataaccta 480
cttaatgaag gtgagaaaat ccataccat ttacctggtc tccaagagct tgccgccttc 540
gttcagcgct gcgataagtg ggttgaggaa gcaaccaact acattacgcy gaagcagcag 600
aaccgaagga agaacgagaa agcttggcgc aagactactt ccaaggcctc gcagctggaa 660
gaacgtgacc gtgaagtctg cagggtagaa aacatctacg cccttcttgc agaggctgat 720
aaactgtcat tcgactgtcc acagatggcg gctctggaag agaaaacccg cgagatcgag 780
aaattccgcc tggacgttag cgctgcgctc gcgaatccgc ataccggtc aatacaggaa 840
gtcgaagagc tcgtggaaaa ctcccgaat ttcaactggg atctaccgga agtggaggac 900

ctggaacaca ttgtcagaca aatgaagtgg aacgaggatg caggctcgag acgtggccaa 960
 tatctgactc tcaaggactg ccaggagctt atcttagctg gtgaacagct gggactctcg 1020
 gaagcgaatg aacaccttgc gcatttcaaa gacctgtgtc gtcattggtga ggcttgggaa 1080
 gcgaaagcta aggaattaat gtcggtcgag gcggtccact accaacagct ggaagccttg 1140
 tcggcgcagg caaaccgagt tctgtctccc ccagagacac tcgcagctgt agatgcaata 1200
 ttgaccaaac aacgtgaagc tcagaaacgg atccaaagtt tgtatgagag gagcaaggac 1260
 ccggattaca agaaacggcc tctttacaag gaagtacgag aattaatgga gtcgctggaa 1320
 gagctaaata gtcggccaac tggcgcaatt gacctggagc gtgaacagaa acggcatgaa 1380
 gactggatga ggaaggggaa aaagctgttt gggaaggcta atgctcctct gcatatccta 1440
 aaatcgcaca tggagtatgt tgagaagaga aatttctact gtttcgacct cgaagatcgt 1500
 tttcggcctc ctgtcgagcc agcgtcaagg gacaatagcc ctgacggcca gggaggggat 1560
 gtgcagcagt actacgggca g 1581

<210> 2010
 <211> 3492
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2010

tagtaacggc cgccagattg tgcattgtgaa ggttgcccat acaggacgat ggtcggaaaag 60
 tcgcatgtct gaagcaccat agccgctttg tcgcagatct ggtcctttcc acagaatcct 120
 gtcgcaccat gcgggaatac gtgatttata actggaaatc agcatcaaata atggcatttg 180
 gttgagttac ttacgaagtg tcataggtgt cactgcccac gtcataatttg taagttgggg 240
 ggaacgtgac aagaccctca ctgtagaatt ggaaagccct gccgcgcagc atttgcagat 300
 tcagctaacc aaggctcagt aagtacggat gccatgggaa gacatagctt acttgatcat 360
 tgtcatagag cttctgataa ttgctctgtc ttaccaagtc cctaaccgtc tgattgggaa 420
 ggccaatcct ataattgaag tctcccagcc atataacagc gtcattgatcc tcaataaatc 480
 tattcctctg aaagcgaagt ccctggcaaa tagtttcgta gtcattgttc cgttcacat 540
 aattcgcaaa gccagcagct aatgagcgg ttacgaagca aagcctggta ttcgaatatt 600
 cgaagcggat ggcacagcct cctttgttac cagctattcc agaaagcccg gtctgcaggg 660

accgaattag tgagttttat aagaggatag caagttccgc tcaccttctt tacacttctt 720
 tccacgttct ttatgtctct gagaatatcc tcgcgacgt agatcatcag agctgtccca 780
 accaattgac ctgatcgag aagtacatac ttcggtgatc cccgcgagc tgcgctgag 840
 tttaaacaat ccatgacggc aagctcccag gatttacggg ttgtagggtc tgttgacatg 900
 atctgctgag ggctcagggt aacaatctcc tggaatccaa cagcgaatat agtcggacac 960
 ttgcgctggt cattgtctc gggaaataac caaggactca agtcagtacc gggtccttgg 1020
 acacgtccat tcacgttgaa cgttccggtc cagatatcgg ctaatttctt ggaagtgaat 1080
 tctgatgata ttcgatccag cttagcagag accatgtcat tgattggatc gtagagatgc 1140
 actggcagct gatctggcag gagaccaac ataagatcga ttgtcctctg tcgagctttg 1200
 tctgagaagt tgttgatgta caatctggcg gcagttttac gcgcatcggc caaggcacct 1260
 gcaatggaca tcttcccatg tcgtgtatac gagcttttga gagcaccagt gcccgcgtag 1320
 atctttgata aagcatctcc attatcagcc cagagtatgg agtgccgatg gtgaacttca 1380
 gagtatagca cactgttttc ttgcgacagg aacgattcaa gggccagtaa gctaattgatg 1440
 gtctgcacaa gatttgtccg gtcaaggcaa tccaggcaat tgggtcggaa gactccttct 1500
 tgtttagaa caacgatgt tccaggatc tcagacggac ggttttgctt agagagaaag 1560
 tacgcaaagc cattgagaga ttgtgtaagc tcgtgcttta tttgatttcc ggccccatat 1620
 cctagggggc cccgagcttc tgcattgaaa tcaaactctg tagtacgtaa cagagcatga 1680
 tctgaaggca gatttgattt tttgctgctg agattcctcc ttatatgttc gcgaaacctt 1740
 gttgaaagtt caatttcacc cggttttgat tcacatagaa ggttgaccac atggacagcg 1800
 ccatattcta gtcacaaaaa ctggatatgt ttgtcaaagc cgtgttgagt agcctcaatt 1860
 gatcgggtca cttcaatctt ttgttgcccg gggagaaatc ctgtggcttg ctcccagaag 1920
 attgggacgg agccacgcac ttgcacataa gagaaggcca ccccgatgt tccgcaaacc 1980
 aagattgtct ctgtctcgac gaagttggcc acatttccat cgtcgtcaag accgagagca 2040
 ttaaatecag tgctgtctcg tcgtgaagac aaacgggaaa tgagggtcag cattgaaggc 2100
 aatgtgcct tgggctcgga atgtaagacg ttagcattag caggaatggc tattgtcccg 2160
 cagaatcccc ggataacaca tgtgagaatc tgagaggcat cgagaagttg tttttcatac 2220
 ggtggtaggt gggatctaaa catgagaaga ggttgatca tatatgcatt ccacaaaaca 2280

tctttgtcaa gggaatcgat atcaaaagct gtcaacttgt ctgaactatt attagttagt 2340
tatcttgact cttgtcctgg actattagcc taccgatcct gcagtcgac tgtaagattg 2400
aagtcaagac tgtagtaaaa gctaccatca gtcaggagtt tcttcagggc tagaaaagga 2460
tctttcgccg ggagtgtatt agaaatgggtg tcttcattga cagaagactc cgcgtcataa 2520
tagggagtaa attcatattc ggaacgggtc aaacaatctt ttttccttgg ttagatagca 2580
gcgataacag attgattcaa gatggtagat attttacaga gatctacgtt ctcaattctt 2640
aaaactgtct ctccaggcct gactgtggct gccttggag agcgcgtgac aacacaaaca 2700
aacacatcat ggtctatagt gaccagcccg aggggtaccgt acccagatcc taaaggtcgg 2760
taacttgcca agtctatgga agatagactg gcaaacttca ccaagcagcg ttgcctgtca 2820
tgattgactg atgaatgatt gttggcagac tcccgtaagc tatgttggaa aaccaacgca 2880
tcgtctgaag tggccaaaat aagagtgcga acgggggtgtg cccgactgaa gactcgaata 2940
ctaggcatta tcaattgaga tctgaatga tgactttgag catggcgggc agacgaacgc 3000
cggaagtagt tagagtagca ctgcttttt agatttgaag ggccctataa ccattgcgtt 3060
ggggaagctt atgaaccgtg cgagatagac atgggtggggg aaaatccaag aactatttag 3120
gaggttcgac gactacaatt gttgaattgc tacactggaa ctgatcaccg ttaaagcggg 3180
gtttcaatat cacgggtgat tacgaactgt ctctctatat tatgggtgatt aagtcccccc 3240
atgaatccta aattggccct tgaacacaca cttatcaca agtttcttgg tctcaatcct 3300
tcagaaataa agggctcagg tgtctgattt aatacaaag gtataaagag gactccttaa 3360
acactctgct tgggttattt tccgtactac tttatttact ttcctaatca tcttattatt 3420
tccccacaat ctctcacta tattttaact ttatctatat tatcatcgtg acttctctaa 3480
aatttcttct tt 3492

<210> 2011
<211> 1567
<212> DNA
<213> *Aspergillus nidulans*
<400> 2011

gggagtgaag agctgttttag aagatctgga gacggcagtt ggcctttaa taatttccga 60
gaatttcgtc atagcgatga taacatgcgg ggttccctta tctccgcatc agagcttttg 120

cggtegcttg cgcgactggt ttcacccggc acaatatctg ctcaactagg gctacttcca 180
 gtatcgtaag cgtagattaa acagctattc acgcgcaact aaattcagaa tatgtagccg 240
 tgccggatac ctgagcatga aggtaagatt tgcagcgaaa gataatgcgt cttaccgact 300
 gctgtatcaa ccatgacacc aaaagagccc ctgcttatat gaacctcgca tcagaaacca 360
 ataaacttcc taatttcttg gttcaagcgc acggtagcaa ccgcctaggg cttgactttg 420
 acttgccaag attcccggcg gttcgcatca agccctaact gccagcccag ccgcaacagc 480
 taaaagcggg ctttgaacag cacggctagc ttgacatata cgacagtcag tcatgtactc 540
 tctgtgatat tccaagagct agatgggctt gctgtttgag tgggatattt gcgcacagaa 600
 acgtactcgg gggttcggatt ctctctggtc aattggcagg ctctgcggca tcgcgcagca 660
 tttcaaattg acatactaca ctgctcgcac tgaatttggt tttatcagcg ctcgaggtag 720
 acctgatata catcaagcgg ccatcagatg ggcgttaagt gcttgtagac tatcaggacg 780
 gcgctaagta cgcagaaacg gaagcagccg ggtagttagt aggtttaaaa gggcaaaagg 840
 ctgtttcgat taactgaatg gttgcaagac ccggccgact cgacgttgcg gaaatctgct 900
 aggtgaatag aaataatcaa cgagacaaga ataaaaaat aaaattatgc cgcgaaagca 960
 gtatcttata ttgtgcatgc tttgtccgga ccttcgtctt gtcttgtcct ccagttaatt 1020
 atttttccaa ggcaagagaa gagcttctcg ctggagacat ggatgtcatt tacggtgtat 1080
 ccatgattaa tatttcgacg aagcacgaga atttgttaga tctagatggt tgtgaagatt 1140
 ctagctgttg atagccagtg tatggacatg aggcaaagat aataccaata ctgaattgcc 1200
 tttgtgtgca tatgaaacta ttcacaagcc tgttactcac acagcagcag atttgtctgg 1260
 agggaatata tactatcccg cttctattga cttcaaagt cttagtttgt aggtgttaaa 1320
 gacaagtaac atgataagga cctgttcaca gcttaacacg cacactatag gatcgtaac 1380
 ttggcccggc ttggagctcg atgatattga tacgacagca ctaccttgaa agtagaaaac 1440
 gacaactgag ttgagaaact catcttgtag ccctgaacct tcctgattcc atacgtgggg 1500
 ggtaatcaat ccttaggcta gctgacaaaa gggaccaact gctggaaaaa agggcgcacc 1560
 ttttcca 1567

<210> 2012
 <211> 1553

<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 2012

ttagcaggtg tacgaagaaa gaaatcattc caaaaaggtg aaattttcgc tcaccagaaa 60
gcagcaccaa tttggttacc ctgtcacgca tccaagttta gtattctgtt ttcagagaca 120
accaattccc ctgtttctgc cacttacaca ctggccggtc tgaagggttaa cctatttggg 180
gaaacacatg gtcagcatat ctgagatcgt ggtatgtaga accggtgggg tccccggtat 240
ccttaatggg aaggggaccc ctcaagacgc gtcaaacagg gagtgtcaac atacgatctc 300
acgcattgtg aaggggtgtg acgggtatag aggattaaaa aaaggattat ttgcagaaac 360
cgtaaaaaga atcgaagtcg gatgaagata gactggggaa cagccggaat tgaggggagg 420
aggggaagagg acaggagcga gatcaggaga aggaaagttg ggttggggga atttgagcgg 480
tgaagccgcc agcaaagagc gaggccagcc aactaagtg atcgcccgta gtaaaggaga 540
aaaagatcaa caacaacata tgtcacgtgg caaaagggga accgccaggt ccggattagc 600
gcctggatta gtcatagacc tcaggaacga accactcttt ggtctttgct gcgcgaacca 660
cgccaggtat acttcagtac agctgtatat gaccctggtt ccaagcacga tcataccttt 720
ctaggtgctt gaaaatgact ctccatactg gtagcatttt gtccctctct tgagatcagt 780
ttgacggtca ggttgatgag gacaatggtt gaggacccaa aaaagggaca ctaccatgga 840
atctcagggc gctgtgaata gcgcacatc tatcagttta tcgtaacagt aagacttgtt 900
catcatttgg atatgtgcag gtaggaccta ctcgtaaaat gccgtgctga cagttggggg 960
tatctgttgc agcttgtcgg gcaggcccaa taccagcact aacatgccac taaggcatac 1020
cttgtttggc aaaaagccct tataaactgt gtaactgct tatcggtagt gcgctcctta 1080
gacggccgcc atgaggcaat atcctgctct acaacacagg ctccattgaa tatgtctttc 1140
tctgagcata attggtgctg tatcagtcag atcagagcgc tgaatcattc taaacagcat 1200
acaaacaggt cttgatgtgc ctcaatatag ttcgaggcga gccttctttc aagtccgtag 1260
gccgatggta actcacatat gttgaggcat atcaccacaa gtccgtaaca ctccaacgctc 1320
ttcaagatcc gtcagattta ctcccatcgg cattggcaga cctgcaaaca caatgacccc 1380
atcacgcaga cccagaccg atcatcctgg ttgatgactt aggccttgac atactcacgg 1440

gcctgcttac .gttgtgagag attgagcgtg ttacacctaa gcgaacggca ttcgagatca 1500
 tacgatcgct ntacacgtng ccgcagaaga ttactgaaag ccatgaagac ggc 1553

<210> 2013
 <211> 2331
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2013

cagcagagtc tgacccgtgg tcaactttca gtattagaac agaacaattt aacagctagc 60
 tatacctatg tagcaatgtc aacttcccag ttcattaccc ctatactcta cgtacattgc 120
 acattgggggt cgttctccac tgtcgacca cgcgaccgat cagaaccgtc ctgctgggat 180
 tggtecgtea tatgccgccc gcgtccaggt gtcacgggtc tcatgcacta gataggaggt 240
 taacctactg ggggtggcaaa catactagag acttggcaac tgcacgttct gacgtgaatg 300
 taacgctggg gacagctggg cctgggctg gtgctagagg cccgtagcgg ctcggtctctt 360
 tgaattaggg tccgtcttgg gatttgctt tgtgacctg tgctagcctc cgcccctggc 420
 aaacaggctc gtacatatta gtgttaacct ccttccctgc ttctctgctg tgaaaatttt 480
 tatcagagca gctgcaatca tgcgctacca agggacctgg ctctttacaa ttgggacttt 540
 gggagcgcacc ctagccacct cgtcttctc ctctactgag aaaaacatcc tcgaagtaga 600
 cctcgtcttc cccagaaca aaacgtacaa gccacagaa tggttcccca ttgtctttgg 660
 tttccagaat ccgcaacgcg ccagtagct caatattgac ctacacctt ccttccaccc 720
 ccacgagacc aatacgcaga acgacactat caccctcttc cagcactcc gctgggaaaa 780
 ctggctctcg cagcaccgt acttcgcgca caatttctc gacaacttta acagccccgg 840
 acgctggaac ctgcgtgga cggtagcatg gcaatcgtgc gacgaagagg gctttgagaa 900
 ccggctcatg acgtctgaca tgcttataaa tcagacggac ttttcaatct ggtttactat 960
 tgccgccaag gacgctgaaa acaagggtat tgatgcggat cttgtatctg ctacgtcagg 1020
 agagacctcc tgcccagacc tgggatttga gaccgccatt gccatcaacg ttacggaaaa 1080
 gaccatgtcc gtgcccact tcgtagactg gtctgcgcgc gactggacaa accatacttg 1140
 ttctgttggt gctcctacat tagtaattcc ggatccttgc agggtaagt tggaccagac 1200
 tgttgttgag agcatccagg cttcgttgac ggcacggcga tgtcaagggc tcaaccgcc 1260

agatgattgc cctgagaagg aggataatga gagtgctggc gtcgcgctcc ctgggttcggg 1320
 attattgatg ttggccttgt cagggtgctct agggctcttt gcttcaatgt gattgaatca 1380
 tgccatatat ctttggttct acttctgtta gagagactat tagacttggt aaaccacggg 1440
 ttgggtcggg ttttcagcat aactgatcc gcccggcggg tttttggagc ggatcagtaa 1500
 ataagcaacc cggcccatgg attatcgaaa aaactacaat ccaaaccaaa aaccccataa 1560
 accccgccaa gcataacgct aaccatatat ggtagattg ggtcagtga gctataacct 1620
 acccaaaaac ccatagccca gagcataaaa aatctaactt ggttaaattc taccagtatc 1680
 gagatcttga cagagatata gtagataatc ttgttctgta aatatcatat attttttatt 1740
 ttagactaaa agatggtgca cagctaggaa tataagatct aagattatag actatggata 1800
 taatatatat gtaactttga gaagataata taaactaacc aagttagttt ttcttcttga 1860
 agtatttttt ctctttcttt ccatgggcct gctcctccag agtatgcttg tacttacaag 1920
 taacattatt ttttcatag acctattcc tattactacc atcatcatca actgcaatta 1980
 agcgtcacct tccagaccct gaccttaat ggtctcctta ggcgcgtttt tctgacagtg 2040
 agaatcctct tccacctaga cttgttaaac cacgggttgg ggcgggtttt caggcctagc 2100
 tgatccgcc acgcgggttt tgggggtggg taccttcaca gtaaaccgcc catgggtttg 2160
 gcagataatt ctaaccaaac ctaaataacc caaataaacc cagttatgca tatcattatt 2220
 ctaataagca gtgatctata tagttaataa aatactgtat ttaaatactg tattataact 2280
 atctaagtaa gcaaataata tctaaatata gtaatatacc tattcagatc t 2331

<210> 2014
 <211> 3439
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2014

tctactogtt ttcatgttat tctctctc gtcgctatca ccagactcgc tgacgtccc 60
 aatactgctc gtgctgcccc cattgcgaga cgaacaagag caagcatgca gggccaagat 120
 ggcatatatc ttcttttctc ttgcgactct ctgcgaaata tatcttgcaa tcgtttgcgg 180
 cagattgagt atcgctctc cgtggccggg atatccaacg gaacacttga gccctgcat 240
 caggcggagg ctggcagtgt aggtttccag gtctcagca aactgtagc catggcctag 300

cacattgtcg ccggtgaaca gtgcgttctc ttctccagc aagaagcaca tgtgggtcgac 360
agcatgcccc ggctgcagga ccgctcttag agtggcacct tgtgttttga aagtctggcc 420
attcgcaatg gcctgctggc ccgggtcggg cgcattgctg tacactatta tgctggggtc 480
atgcgcaaga aggtcggcta ctccgccggt atggctcttg tgccaatgcg tgagaaggac 540
gtgggagatg gagatgtcgt ggtcttcgag ataacgggtc aactgactg cccattgcgg 600
agctccctgt gaaatagttc aatattgac ctcaagaagt ggtttttacg cagatggttt 660
attctcagaa aaccgaaagt agtatcacat caccataaa cacatgaaca tcgaagaaca 720
ctcaaggggtg atttgggtta aggtcttacc tctccagtgt cgatgagtat cctgggtgctt 780
ccagtaccga ctaggtatgt gttggtgccc tgcagctgca tgctaccagg gttgtatcca 840
agaaagcgca cgacacagt agacaagcca tcgtcgattt ctgggagcac aggtagcctg 900
ctccgctgag tctctagata gccagcccag aagggcgacg agtaaaatcc cccagacata 960
gcgatgagag ttgaaagtat cgataggggc attcgatgat gaagaagtta gattccccat 1020
tagtgatatg tgacaaaaat ctagccacga cagagttggg gcctcctggg gcgtaatctg 1080
ggctgtgctg cttacgcctt acgaactctc tgcggctgtt tgggggcaat aagcactccc 1140
ctcgtattgt ccacaaaaa gccccgaag tattcctccg tccggggctc gaacacatga 1200
atagcaatgc ccgatcatgt ttggtatgta ggaacctatt acctcttgc cgcaaatact 1260
ggtcgtagat ctatatatgc cttcacttc gtccactcca taccacagaa accacagaaa 1320
tccagtatac acttgcattt atttccagct tctaactgtg ctcatcctcc tatcctctac 1380
aacattccaa gatcacaac ttcaattcca tttcaacatg atgaacgtcc cggaagagt 1440
taaggtgctg gtcgtcgggt gcgggccagc tggctcctat gcggcctcgg cgcttgacg 1500
agaggggaatc gacgtgggtc tccttgaagc agaaaagttt cctaggtgcg cttccaggaa 1560
tttgagagtg atggctttca ttattcgtga tgttccata ttcttacag tgcaccagat 1620
accatattgg tgaaagcatg cttccgtcca tgcgacactt cctgaagttt atcgacgcct 1680
acgacaagtg ggatgcccat gggttcaata tcaaggtaag aaaaagacg acaacctcc 1740
agctttaaaa gaacaccact gctaagtctc agagcagaaa ggcggcgcct tccgcctcaa 1800
ctgggtccaga cctgaaacct gtaagcctca gctgatctaa tggccacggc agagattcca 1860
actaaccatc aacgtcgtct attagacacg gatttcattg ctgccggtgg gcccgggggc 1920

tacgcctggc atgtgatccg gtctgaggca gacgagctgc tgttcaagca cgccgccgaa 1980
 tgcgcgtgcc agacctttga tgagaccaag gtggcatcca ttgagttttc ctctcccgat 2040
 ctctcgtctg gaggcacgca cccctttggt cgccccgtct ctgcgacgtg gactcgcaag 2100
 gacgggactt caggaacgat ctcgatggac tacattgtgg atgcgtctgg tagaaacggt 2160
 ctcatcagta ccaagtacct gaagaatcgg tcctacaaca agggccttgaa gaacgtggcc 2220
 agctggggct actggagggg agggggcgct catggtgtcg gcacacacaa agagggtgct 2280
 ccctatttctg aagccctcaa aggtacgtcc tcgccccggt gtatcttcca cttacccat 2340
 gtgaaggga acagtgctaa ctgattgttt ggctcaacag atgccagtgg atgggtatgg 2400
 tttatccctc tgcacaacgg taccactcc gtaggtgtgg tgcagaacca agagatggcg 2460
 acggagaaga agcgaaaaat ggccgagcct tcctccaagg gcttctatct ggagtccttg 2520
 gagtttggtc ccggcataaa agagctgctt gctaacgcgg agctcatctc agagggtcaag 2580
 tcggcctctg actggtcata cagcgctca agctatgctt tccgggtgt acgcattgcc 2640
 ggagatgctg gatccttcat tgaccgttc ttctcttccg gcgttcactt ggctctttct 2700
 ggagggtgt cggcagcaac gaccattgct gcggccattc gtggcgactg cgatgaaaat 2760
 gttgcggcgt catggcacga taaaaagaca tccgaaagt acacacgctt tctcttggtg 2820
 gtctctagt ccttgaagca gatccgttct caagatgagc ccgtgatcag tgactttgat 2880
 gagggtagct ttgaaagagc ctttgaccta ttcagacca gtacgtccat tctctgtgat 2940
 catccacgg cagaagcaat aattctaag gcgtaacgtc tagttatcca ggggcaggcc 3000
 gatgccgatg caaaggga gctcactcaa gctgaaatct caaagacggt cgagttctgt 3060
 ttcagagcat ttgcgcacgt ctcgttcgag cagaaagagg ctctcgtgca gaagctcaag 3120
 tctctagggc acgacggaga tgcgtacgac gagaacaacc gcaaggctct cgaggaaatc 3180
 gagaagcagc tgacaccaga ggagcagaca atcttgaaga cactaaaggg acgccgcatg 3240
 gtgcgccccg aggattcgct caacattgac aatttcactc tcgactccat cgatggcctc 3300
 gcccccggtt tggagaagg gaaactcgga ttgtccgcag cgaagaaagc agagcttaaa 3360
 ttcaccgctc atgatccgct ttctttcctt aacggcgaag caatgggctg ccagaagacc 3420
 agtccaaatg gcaatctcg 3439

<210> 2015

<211> 4384
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2015

```

cagcttcggt ttcaactccc aggacgcctg cccctccag caaaacaaga tgtctcgct 60
ctccggtctc atacctgata ccagctcca aagcctttct cagcataagc tctagcgccc 120
tccccgcata agcccaccca gcagaccgat tgaaatagta cgatccaaat ggcgcataat 180
ccgtcctctc cagaacacct cccacgccc ttggaacctc atcctcctcc atatcaacaa 240
tcacgtgtgc atgcttgcca gcgaggaaat tctctctgat acggtgcgcc acattgctcc 300
cttcctcgtc catagcgatc cagccggact ggtggtaaac acctgcatct ggatctgcgt 360
cgggattttg agactggaag aacggaagcg tctgccaagc ttcaatcgcc tcgaagccta 420
attccatata tagtggactg gaatagtcgg cgcggatgat cttgttgatg tcggcggatg 480
ctgcaagcgt attggacgga gggccccggg cagctcggtc caaaaggatg atacgagagg 540
ggtcgggaac tcgctggctg agatggtaag ccgtgctgac gccgaaaatg cctgcgccga 600
ctatgaggat tgttctttca tccatggctt gctgaatcga agcgtagat gtagttgtga 660
tggatgaggg ggagtggatg tcggtgtcct atcaatggcg tagttggagt acaatagcgt 720
cagatacgta acaatagagc gcgcaacgca atgacaaagt aatacatagc ctacattgca 780
atagatccag aactcataag gtaattttat tgccagccgt agaacaacga agttaaatgc 840
agaggcaatg agcacatgac acccaaacat tatttgactt gctgcccctc ctgttcttcc 900
aacttcccag cttcaacccc tagccttcca agtcgagcga tatctcgtgg cccagtcta 960
ccatggcgac ctcagaccaa gagtatttct ggaccagcaa tattctcctt cagcccttg 1020
catccaaga acgccccgac tccagcagca acaacccaac ccgactgcaa acgcaaacac 1080
aacagccaat ctcagactca gacagagacg cgatatgcct actattccac gattacttcc 1140
cttcaagatt accgcttcca tatgcgggat tcgacaaccg aattgctgct ttgcgtgctg 1200
acgtccacaa acgatgctat ccaaggaact tgacgatagt cgaggagggtg catcagtttt 1260
tcctggagtt gaggtccttg ctttctgttt cgtggcattc gcaaggagct gcgagctacc 1320
ttagggacat ggatttgcat tcacaggcgc aggctacggc gcaggctacg gtgcaggttg 1380
acgaggtgga tctcaatagc gacagtgaga actggccaga aagtcggatc gatgacgaag 1440

```

aaacgtacca tacatcgata tgggaagctc gtcggtcgaa tgaatcaccc agccccgata 1500
 aaaaggtttc taggagacca gtaaaggggtg actgtacgat ctgctttgct ccgttgaaaa 1560
 acgatcaaac ttctccgcca ctaaaagaac accaaagcga accgaaagac gttgcctttg 1620
 tcaataacga gccaggcagt cgtggtcctg atcctgatat ctatgaggat catggtgacg 1680
 agggaaacaa ccaatatggt gatagttctg acgaggacga aggagacgac gacggcaacg 1740
 acagcagcag tctcgtttgg tgtagagatt tttgcggaac caactaccac tcccaatgct 1800
 ttgctcagtg gattccgcag ttcaagaagc ggcaagatgt cagctgtcct acatgccgga 1860
 gacgctggaa atactgggga gggaggaatt attgatcgat tgggctgttc cttggtttcc 1920
 tggttccagt gccggaatca tggcttcatg atttgctga cacatgtacc gtacatgaag 1980
 gacttctgcg tcaatgggga tgtgatttgt gggctctggg tctgatgata atgctataac 2040
 cgagcctttt gcttttccat ccgctgtaac cacgtagcaa tggcttcaag gaggccgtcg 2100
 acctctcca ccgtgtttcc cgctgcaag catacgcgta cacgttcttt ccctgctgga 2160
 acagttggcg gcatgattgc acggacggta taccctgct cctggcatac gctggcgagc 2220
 acacggggca cactgctgcg aagggaat atgggtgagt tcgtaaaatg ttcaacttca 2280
 aaggtcgacg agtccttgtg gttgagattg tccaaccccg tccggaagtg agcaatcagt 2340
 tgtccgagtt tgtgctggag ctggatattt gttagctttc ccataggcct gtaatgaaac 2400
 gttgcttccct caagcgaagg accgtacctg ctgagttttt ccctcaacga gtagttcata 2460
 ggcagcacgt attgaagcaa gaaagggaaa tcccagggca gtggtataga tcaggctgcg 2520
 agcgaattg atcaggtagt ctctagtatc cgcacaacac aatacgattg ctagcaggac 2580
 agtcaatatc gacacccaaa gacaacgcgc gagacttacc tccatgacta gcgagtgcct 2640
 taccgaacgt atgtaccgga acgaacatac gatcctccag tcccaactct tggactacct 2700
 cagaaccgcg tgggtccaaag acgccggtcg catgcgcctc atccacaagg aagtatccgt 2760
 taccgtaagg gagaagctgg tccacgatct ctacgaactc acgaataggc gcaacatcgc 2820
 cgtccatact gtagacggat tcaaaggcga tgaaaacgtt ccggcgggcc tgaagaagtc 2880
 ggggatctgc agttatttct gcttgcacta ctgctctcag gccatcggga gagctatgag 2940
 ggaacttgat acgcttccct gctcgtgaga gccgcatgcc ctcatgcgcg ctggcatgga 3000
 tgagttcatc gtatactatc agatctccgg gttgcgggat actcgagaaa acgccaacat 3060

tggcatcata tccggaattg aacagtaggc cactcggggc attgtggaac gcggaatga 3120
 agttctccag ctcttcggca taggctgaat tgccgtctag gaggcgggac cctccgctgg 3180
 caaacgggtg caacggcggc gcttgttgca aaatatccaa aaaccgcgct cgataggctg 3240
 gcgatgtgga tagtgacaaa aagtcgtttg atgagaaatc aaccgaagac gaaggtagaa 3300
 tcgtcagttt tcgacggcac agcttgtctt cccttcgacg taacgcctcg cgcagtgagt 3360
 cacgaaggca ttttgagaaa tcgcccattt ggacgactgt ggttccaagg ccaacgcttg 3420
 ccaataggca attcagatag ctggagacaa gattcaagta accgtaaatt caaaggagga 3480
 tctatTTTTT ctctggtgag attttgccag tattaatgct ccagctcaaa tcacgtcttc 3540
 caatctccac gagtctagaa cgtcttgaag accctgctgt atggacctga gacttggggg 3600
 agagcgatca ctgatgaagt agtgctgag tctcaccaca ttaacacatc atacggagta 3660
 gcacaattca attcggcggg acttatttca tctgttggga tcaaccggtg ggggaatgga 3720
 tccgacgaac gtggctgggc cgctgcccggt ttgtgccgct gcagtgactc ggtgagcaac 3780
 gcagttccct aggcaagaca aaaggcttaa ctcgggggcc tcggcctggt tctgtctca 3840
 ctgtgctgt tctgtctaga acgactatga acgcctaatt caaagggtc gagagtcaa 3900
 ccacgategg gtttctttcc gcggtaaagc gctgcagcct tctgcaaccg aatctgtcgg 3960
 tcatcattcc tgttccggtc gcagacgggt gccgaaaact gcttctaaag ttcagtgggt 4020
 gtttcggctc tgtgatgct tagcctttca cattagcgac tggtttctgc tgttttgaaa 4080
 gtctagattc accatcatgg cacctgttgg tgccgcgctc tggcgctccc tccgcgcca 4140
 ccaagtatac ggggcgaaca ctgacgtcgg caagacaatt gtatcagcat ttctttgcaa 4200
 tgctgttcat ggtctgaaaa atcaagcaaa gcaggcgtat atgaagccgg tctccacggg 4260
 gccattggat gcatcgcatg accaggtaag actggtactg tgcccataat gtgctcccag 4320
 cccgcctgga ccaggcaata tgtcattgcc tgccctgctg gcacttcgcc tgtacgctgg 4380
 cgtg 4384

<210> 2016
 <211> 364
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2016

ttctgattac tatgagtcac gatgctcgaa tctgggattg tctataaaag ttcttttaggg 60
 gacactcaag ggccgggggca agcctatagt aagttggcag tgcgagaacg cgcgctctgc 120
 aggaggtttag ccttggactg gtgctactat gagattatag tacctcacga taaatactgt 180
 gtagtattgc attcatgact agaacgtcct tccggtcatt atactatact gacggcggac 240
 gctctgttac gcagatgaac tcaagcgccg cgaaaggatc gctcaatagc tagggtagtc 300
 aattagaagt ataagtatca gtgcctataa aggtcagttc acatttgtgc gactgtgcct 360
 agtc 364

<210> 2017
 <211> 1625
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2017
 ccccttactc agctgcacac ggagactttc gatggtttca ggcacagcct tccccgggtg 60
 cggagttttg tgagctcatc cttcagtcga gagacagcgg ttgcgattcc gagttcgagt 120
 tgtgaaaggt ctgacgggtca tccgaagcaa tagttgcctg gccttttgcg ccagcatctg 180
 tttgcttcaa agtgtctcgt tttttacttt tgttcaaggc cggggagcta gtgaagcttc 240
 ggcggaaggc ataaccttgg agttctatgc cgcgcacggc tcggattcgg gatgtcttaa 300
 gaaattgtgg aagcgcggct atgggacgca ttgtcgtgcg ttggtaggga aaaataccaa 360
 ccaagagcag ggacagttga gtcttgacag ccttttgggt ttgatgccaa gaacttgcgg 420
 agctgaagga aatcgattac cttatacggc cataggttat caataatcgc ttcttcacac 480
 aacttctcaa agatttggaa agattacaaa acagcaaagc ggaaagtga gaagtttgac 540
 aaaactcgtc ggaatcatta aacctgcagc tacagtcatg tataaatcta gaggatactt 600
 ttgataagaa tcattcccga ggcgtgtcaa gcacttccag cccaacgtcc ctatatgtcc 660
 aagtctgaac aaacaactca tgcttctcat gcattctata atctgttatt taccgcgtgg 720
 ccatggcctt agtgatgagt ctcttgagag ccagctcctt cttcttgaga tcctcgggag 780
 tggaaatcctc aatctcgagc tgtgccatgg catcactgag ggcagactcg atcttctccc 840
 tgttgccacg cttgagtttc atagacattg tagggtcgga gatgatttcc tcaacgcgag 900
 agatgtagga ctcgagctgt tgacgggact caaatcgttt ggtgaaggcc tcatcactgg 960

tcttgaactt ggcagcatct gtttctgatt agtataggaa gcacaaaact ccaatggggg 1020
 tttattaccg tcaatcatct gttcaatctc agtggttagaa agcttgccga cagcgtttga 1080
 gatagtgata ttggcgctgc ggccagaaga tttctcagt gcggtgacct tgaggatacc 1140
 attgacatca acctcgaaga cacactccag agcagcctct ccagctctca taggtgggat 1200
 gggagccaaa gtgaactctc caagagaagt gttgtcggcg cagttggtac gtcaccctg 1260
 atagacaggg aactgcacag tggtttggtt gtcaaccaca gtagtgaagg tacgcttctt 1320
 aatagtgggg acggtctggc cgcgaggaac gactggagcg aagatgttac cttccatcgc 1380
 gacaccaaga gatagaggaa caacatccag aaggaggaga tcctgagtct cggctgaagt 1440
 tgccttcccc gagaggatac cggcctgaac ggcggcacca taggcgacac cgtcatcggg 1500
 gttgatgctc tgcaaatgt aagctttgaa caaattaaca gtggcacaag aaactgacct 1560
 tctcgagctt cttgccatcg aaaaagtcgc tgaggagctt ctggatgcga ggaatacggg 1620
 tagaa 1625

<210> 2018
 <211> 3877
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2018

cttaccgtcg aacttgaaac accctggaga tgacaatgat tgttttcccc gagaccgcgg 60
 cgactcggcc ttaccgtcc tttccaataa tacagaccgg cccatccgtt cttcgcacgg 120
 gatcagcacc ctttcaggtt ttccccgtgt gacaagtggc caccgtgcag agccaagtag 180
 gctttcactg aaagctcttc gtgtcccctc gtgccaaagg ctgggtagtc ttaatagatt 240
 gcgcggagat ggattccgct tgagtctagc cttgactcgt ccagatatct atatttggca 300
 ccgcctcgtg ctgcgtggtg ccattcccaa gcctttctct cgtttgctgg ggtcgagtgg 360
 aacggcgctt gtagaactcc tcccataggg cagcgctca acaggcctcg caagctgcag 420
 caaatcatcg caccgcgagt gcgagagaat gacctgacgc ctctgcaa atctccagta 480
 taccaatcag tgtcttcgct aacatcgtaa atttctccca gccacatggc gggtcgcgtt 540
 gtggttttcc atggatagaa gaacgaccac cgaaggctgc agaagatagc gcacatggcc 600
 gtgctctagg atcgcgcca gttgccagta cggtcgcttc gaggggaagat catgactcga 660

tctgagttcg tggctggttg tgatagcatc catcgggcat tgtctcatcg ctgggaggac 720
aggcggaat caggatcgct tgtcacaaca caatcgtcga ataaggtcag ctgtatcgaa 780
ccatggggca acgcatcgtg ttccggagag gcctggagga tctggagtgg ttcttgaatt 840
agcagactga gacccgctgg ttaggagagt tggactggct tgcagagacc gtttactcgc 900
tccgccata attgagcacg atcgcagtga ccttggctta ggactgaatg tttagcgcag 960
tgggcgctga gcagttggca ctgagctttg aacactgact gggcgctggt cgctgcttaa 1020
acttctcag gtgcagaaca gaacctcacg acccgcgctt ttccttttcc tccccctctc 1080
ctcttcatct tccctctccc ctgcacatct ctaccacatc gtcgggttct ccactaccat 1140
tgaagaccag tatttgatct gcatcgtttt accggccgag aattacttga taacatggtc 1200
cgacaggcgc tcgtccttgt gtcccaactg cccgctattc ctctgcgctg agtgctcaca 1260
atcagtctcg ctgcaatccg atcacgaagc caccacgcta cctttactta attaagaagt 1320
ctcgtcacgg ctcgctattg atagaagtgg aaaggggacc gaaccgtcga attcttgccc 1380
ctcgggcttc tcccttttat ctacgaggca ctacgtccgt cccaactcgc cccgttagat 1440
tgacgacata ccattcacga gtctaggttt cagggtgtga taatttatat agtgcaagt 1500
tttaaagggc atcagtcgtc ctctccttta ccagcaagca tctcgagtcg gatcggcttc 1560
tagcgtgctt gtttttctgc gcctcatacc agcaccgtca tcgccggccg atgatccagt 1620
gcgtgtcaa gataaccgc gtttccttac cgggtggtag gcttatcgcc atgggcccag 1680
atccgctgaa atcctacttt gtcctcctca agctattctt ctatacttgg ttctggggcg 1740
cgcatattgc tatttttgca tacggatggt tcgtcaacgt gaagcgatag agatagagcg 1800
gagtactgac tggttcaggt atcaccaagc gaagagcgag ccattgtcgc cactcaatgt 1860
cctttcgtac tcagtctgga tctcgcgagg cgctggcctg gtattgacag tcgatggaac 1920
acttatcttg ttgccgatgt gcaggaatct cgtcaggttt ctacggcca agctacggtg 1980
gctacctctt gatgagaata tatggtttca tcgccagggtg gcgtacgcga ctcttggtt 2040
taccattctt catgttgag ccactatgt taagtaagtc gatctctagg gggatcagga 2100
agcaaggaaa gctaacgttt tacagtttct acaacattga gagaaagcag ttgcgtcccg 2160
agacagcact acaaatacac tatgctcagc ccgcgggagt gaccggtcac gtaatgctgt 2220
tctgcatgat gctcatgtac accacggcac atcacgggat tcgtcaacag tcgtttgaga 2280

ccttttggta cactcatcat ctcttcatcc cgttccctact tgggctctac actcatgcga 2340
cgggctgttt tggtcgggat agcgcagagc catactcgcc gttcgcgggc gagcgggttct 2400
ggaaacattg cattgggtat cagggctggc gatgggagct cgtagcaggg ttcttctacc 2460
tctgcgagcg actatggcgc gagatccggg cgctacgcga aacggagatt gtgaaggttg 2520
tccgtcatcc atacggtaag tcagctgcgc gatagacaat cctcgagggt tttactgacg 2580
agctagacgc aatggaaatc caattccgca agcccggctt caaatacaaa cccggacaat 2640
ggcttttcat tcaagtcccc gaagtctcca acactcaatg gcaccccttc accatcactt 2700
cctgcccctt tgacgactac gttagcatcc acgttcgcca agttggcgat ttcacccgtg 2760
ccctaggtga cgcctcggga tgcggcccg cacaagcccg cgacctagaa ggtctcgacc 2820
ccatgggcat gtacgaagtc gcactgcaga acggccagca aatgcccaag cttcgcgttg 2880
acggacccta cgggtgtcct gccgaggacg tcttcgagaa cgaaatcgct gtgctcatcg 2940
gtaccggtat cggcgtgacg ccatgggcct ccactctcaa aaatatctgg cacctacgtg 3000
cctccccaga cccgccccgc cgtctccgcc gagtcgaatt catctgggtc tgcaaggata 3060
ccacctcatt cgagtgggtc caagccctcc tttcttcatt ggaagcccag tccgcgtccg 3120
acgcgccta tcagggggtt tcggagttct tgcgaatcca catctacctc acgcagcgcc 3180
tcgatcagga tacaacgact aatatctacc tcaactctgt tggccaagaa ctcgaccccc 3240
tcaccgaact gaagagcagg accaatttctg gtcgtccaga cttcaagcgg ctattcacgg 3300
ctatgcggaa cgggctgcaa gatcagtcat atatgcgcgg attgcacacg cattccagga 3360
cagagattgg tgtctacttc tgtggtccga atgttgccgc aaggcagatt aaagcggcgg 3420
cttcctctgc gtccacgaac gaggttaaatt ttaaattctg gaaggaacac ttctaactta 3480
ccagtctcat ctcgtttaac tggaccattt atgccctgta tctgcttcaa gcaccaaagc 3540
tattttatgc gttgacatct gtttctgata tcacgtgatg agttatgact ttccttgttt 3600
tacactcttg cagcgcgtcc tgtaatggtc tcatgcagga cgcttgcaat atcctctgta 3660
ttctacccca cgaccggtat atagccacgt tctctagaat tcaaattaaa ctggataagt 3720
aattgaaatg tatctgcttt cagattccat ctttcacaga ctagatctcg taatgagcat 3780
tgcttaagta ctgctacatt atacgacatt acatctgcac cgctcattt tcatccccac 3840
tcgcagcatc gtctggcatg gatataggca taccgaa 3877

<210> 2019
 <211> 4462
 <212> DNA
 <213> *Aspergillus nidulans*

 <223> unsure at all n locations
 <400> 2019

```

ccttcttctt gctcttaggc ttcttctcct tggaagcgat ctctcgagca atctgcttgc 60
tcttggcctt gggagactgg gtagccttgg tgacaccggc atccttgacc ttgctcaagg 120
ccttgtcggc aagctttcca gcactctcag cgcccttctt gacaacagac ttggcttag 180
acattttgac tatagtgagg tagaacggtt agaaaggtgc aacatgagtg gccgacgcca 240
atagcaagac ttacctaatt attttccgaa aagagaaaaa aagaaaagtg cggcaagccc 300
tctagtactc aatcacccga ttgaaaatc ccacagtgtt caatgtccag aagtgactaa 360
gcacgactgg aagtagatct cagaagagat ttacgcggac gccacaagt aaccacaac 420
ggacaatgtt caagcccaca gaaacggaca ggagatatgc aactgtctat gatatgaaac 480
ccacaagaag atggtaagat cccacaaata gatgaaacag cccacagccc tcagtgtgaa 540
agcccacaaa caaggtctct gttgaagtgt atctggtaag atacacgttg cgctcccacg 600
tcagtagaag tatatgaaat agggaagatc aaatcaaagt gatatagcca aagaataagt 660
cgaaactttt ttttccttgg tgagaaattt agggagttga taggtgatga agggaaagga 720
aaaaaaaaatt ttgggaactt ttgagaaaca gcttctctga taagtaaaaa aaaaactcga 780
aggctagcag agatatgcat accgcttact ataaccggtc tagcttgaag gtctatgctg 840
agagaaagtg gagacctcca aaatggttct ttcgaccaac aacagtccgc cctgtcaaaa 900
ctccagtttg ctacatact ccgttatagg ctgtccctac cctggcctcg tttcttctcc 960
aattgctgtt cctctttata tagcaggttt gcggtcaatg gaagaccact gaatattatc 1020
actcaatatg gcacctcag tcccctcatc ctatcgcccc cggaagaaga gaaagtctgc 1080
cgcgctcttc gccggctcga acaaccact cacaatagac gcaggggagg ggaaagctgc 1140
gcctgcattt ccattagtat catttctatg gggagctcgc gctggcgtat ctcaatggct 1200
cgttcttctt ctcatattga tgacagtggg cctgtttcgc tgggctgtca gtctgtgggg 1260
ttattcaggt aagcatacca tcgagttgct gtatggattc ttgtatgtat acttgggctc 1320
atcatgcgaa ggctttaata cccctccaat gtatggtgac tttgaagcac agcgtcactg 1380
  
```

gatggagata accattcacc tgcccctgtc gaagtggat acctatgacc tacagtattg 1440
gggacttgat tatccgcat tgacagcgta ccatagctgg ctgctaggaa aaatgtacgt 1500
tggattttgg ccaagttaca gacttaacca gaagttaac ttataaacag tggctcggtt 1560
ttcgatccca ctttgttcgc cttggatgac tctcgtggaa ttgagggtc tcttctgaaa 1620
gttttcatgc gtgcaacggt ggttgtgtcc gagtacctcg tatatatccc agctattgtc 1680
actttcctgc gacgttacac ccggatgcaa gcggtaccg tatggctctc gtccatcgca 1740
ctcagcgcca tcttctgca gccagcaacc atacttatcg atcacggcca ctttcagtat 1800
aatactgtca tgctgggatt atttgttgcg tctttggatg ctataatggc aggacgcatg 1860
ctttggcggt gtattttctt tgcggggct cttgggttta agcaaattggc tctgtactat 1920
gctccggtta tgttcgcatt tctccttga atctgcatct ttccgcgat tcggcttgtc 1980
cggcttttct gcatagccct cgttaccatt gcttcttta ccgcccctc tcttctctg 2040
ctacttgggg ctactagcac cgaggctggg aaacagccag tccctgagcc accttgcct 2100
caggctttcc ccgtcaatct ggaccatgga tcatcattat acctaatct ctttcaattg 2160
acacagatag tccacaggat tttccattc tcgagaggtc tcttcgagga caaagtggcg 2220
aatgcgtggt gcgccattca cacattttac aaactccatc atttcgagcc tgaattgttg 2280
aagcgcgtat cactcggcgc taccctagca tcgatcttga taccgtgtgc catcgtcttc 2340
cgtcatccgc gcgcttcaat tctgctcccc gcttttgcta ctgtcggctg gggcttttct 2400
cttttctctt tccagggtgca tgaaaagagc gtgctgttac cgttacttcc catgacacta 2460
cttatcgccg gtgatggagg gctcaataaa gatacccggt catgggttgg ttgggcaaac 2520
atccttgggt cctggactct atatccccct ctcaagcgag atggcctcca agtgccatat 2580
ttcgtggtga cttgcctctg ggcctatcta ttaggccttc ccccgacgtc gtggcagatc 2640
taccgccacc agaggccggt tggggaggta gaagcggata ctgaacctca tggcttaca 2700
agactaatac atattttgtt ttatctcgca atggtgggat ggcattgtct ggaggcttct 2760
attcctctc ctccaggcaa gccagattta tgggttgttc tcaatgttct cattggcgct 2820
ggtggctttg ggatttcata ctttgggtgt ttgtggaagt tgatcagcct atcccgctcg 2880
atcgattcta aagtggagga tgctcggaag aagaaccagt gaaacgtggt ccgacatgta 2940
tagaataaac tcagtacgca ttgaaaaat gatacccat ttctaatat caagaatcgc 3000

ctgaagagca tccttttatt cgtctatttc ccctttttac cgcaaactta gttaacagac 3060
 atatgagcgg gagaagatta ttgctaccag atcaatgaga tgcgaagtaa tgtacattta 3120
 aaccataata agcccatgaa tcccatgacc gtaacaccaa gctgatgccg ctgaggctca 3180
 cctccaatct attgtatgtc gaaggtatcc cgcgaactct aatatacaaa cataattgct 3240
 atgaacttcc tcagtgaag ggtgtcgctt ccctccgtaa aggactcaac ctagaccttg 3300
 aagccatacc cagccatgca ggcttgtat tgctcaatca ttgacttgca ctcttgcgtc 3360
 gggtcacggg atttggagaa gagcatgcaa tcctctcgag ctgtcttctc agttttgcat 3420
 acacagcacg gctattgcaa tattagtttc ggcgcgatgg ctgtcatgtc gcctcgggtga 3480
 acgaaccttg ggtttttctg ccggagcttc agttgcaacg ggaatgggag tcttttcagc 3540
 cgaacctgag gtcagaccat tagcaagctg aagtgcattg acagacggca aggccgggat 3600
 atcgcaggag atcggcttac cgctggatga accaaagagc cacgacattg tgcagaaatt 3660
 actgtattat agccaacagc agcgaatagc gagttaagaa tgtcagagag ggttccgatt 3720
 gtgttttgaa gcttttctcg aacggaggcg tgcttgctta ttaattattgc gagcagttca 3780
 tgctccgggtc gaaaacagcg gatgtgggct ttaccggcat ccggagcggc gtcgggggtc 3840
 tccttattca cattagtttt tgatctgatt gttgctgtgg cttcggacag tctttcccc 3900
 ccatcaacaa gccttctttt tcaaccacac tctcttaaaa actgctcgat ccgcttgca 3960
 ctattgagat tttattattg atagtctaag gatacccggt tccttctctt ttattcattt 4020
 ataattgca cacatttcta cctctcgaaa tttacccac catggcccct ccaaagatct 4080
 tctcgctga gggcaagggc ctgaagttgg actcggctgc ggatatcgag gcccatattc 4140
 aacctttact cgagagcacc gactacactg aagttcgctt cggaggaaac accttgggtg 4200
 ttccagcgtc cgaacgcctc gccgccgtcc tttccacgca aaagagcttc gaggtggctg 4260
 agctcgccga tatcttcacc tccgcttgc tcagtgaat ccctgacgcc ctcaccttcc 4320
 tccttaatgc gtccttgaa atgccaaccc tccacacat caacctctcc gacaatgctt 4380
 tcggtgcgaa taccagaaa ccccttgctg acttccttctc tcgccacatg cctctnccg 4440
 atctagtcct gaacaacaat gg 4462

<210> 2020
 <211> 1845

<212> DNA
<213> *Aspergillus nidulans*

<400> 2020

atcacggtat tttcggtgca gtgctatatg ggtgagctct gggcgctcgac cgcgcacgtc 60
taagaagcgc catagattcg taaacttggc caagattggg ccatgataac ggtgaaggcc 120
attgtgaaaa tattgttggg caaggtagag taaaatgaag aaaggaagaa tgtagagacc 180
gtagttagat aatggctctg tgtggctgag aatttctgtc acgagcgcca tctttgatgt 240
tgggcaatgg agagagggtg gagcacagtt ggagactctc tgcacttata tacagggatg 300
ttacagggta ggcgcctcac tgggtgcctg ggctcctcgt ccgtattgct aagacgcata 360
tcgccctgat ggctccatg caccgatcca cggcagttgt gcctgcggag aaccgatggg 420
tcataaatca ctctgcaaga tattcgcaag gttacgcaga tcctccgtta tctgggggtg 480
acaggagaaa tgagactgcg agactgtcct agcgtttgtg gactctttcc atgcgggggca 540
ttagacattg gatacattgg ttgcagccga cgttgcccggt attgatgaca gttggccgtg 600
agattgtgga tgccatcaaa cgcgagagaaa ctccccgcaa ccaaggtagg cgggggtggg 660
gccgagcagc atagaggact caagcctggg aatcttagca ggaggccagt aatcaggaca 720
ttcgtctctt ggcaatttcg gtaaagggtc gccttcatct accgaaaacc cacatacatc 780
tgctaataca cctgggtgtc ctccagggtc caaccggggc ccggcgtgcg gctggcttag 840
ttttaaaacc tagtggcagt ggatcgcttg gcacctgtgt ttaaaaggac tatgaaagac 900
catcattgtt ttacacttga gtaacctgcg tatagcatgt tgatatagct atcaagggta 960
ttgcctcaat tcgccctgca atgatgagag taagaatgag gcaaattttt ggatactctt 1020
tgtaccgttg acgtgcactc cggctcacgc tgagttcaaa aagaataaaa gtcataagcc 1080
agcataactt ccagggtatc ataatgatgg taatgtcaaa aatggaataa ccgcactctc 1140
ctcaaacggt aaccagtggt caacgccatg gtcaacggca aattggagac tgtttaccgg 1200
tcttcgtgag acaccgatac atctagttag taagattctt cgcccccca cgactgagcc 1260
ctgcggccag acagctgttg ctcttcgtcg tctggaagct tagagaagcc ctctgggacg 1320
aagtcacctt tgctgtatgg agtgtcgcat cggaaagagc gcagaggtgg gaagtagcgc 1380
cggtagcaga agtaggcgac cacggagcct aggatgggtg cggtatgtaac gtcatacacg 1440
tcgtgccggt aatcatctag gcgggaaatc gcgaccatga gggcacagac gatcggaatc 1500

aggacaaaa gacagcggca taagtccgtt ctaggcctaa acacgtgcat ctgaccagag 1560
aagaacctga catgaatgat tagtgggtgg ctagctatgg gaattcgac caagcttaca 1620
atgatagata cccagtgcca gcaaatgaga aactgctgtg accgcttggg aaactcctcc 1680
acccctcctg tagaatatgt tcgttgggtct gtgtgcaaac agtccagtag acaagcgtag 1740
tctcaggagt tccttttcta ggcatacagc gtgatattaa atcaggacgg ggtcttccaa 1800
ccgcattttt aatgatgtcc gtgagaagcg aggtgagcat tatag 1845

<210> 2021
<211> 2533
<212> DNA
<213> *Aspergillus nidulans*

<400> 2021

ccattcattc gtgagcacia gatcacgtac ctcaagcgca ctgcctccgt cctgcaggaa 60
tacgacttct cctcttgccc atctctaaag cgtttgatct tggtcggtga gaacttgact 120
gaatctcggt atctggcact acgtagacat ttcaagaatt gcatattgaa cgagtatggc 180
ttcacagaat cagcctttgt gacggcgctc aatgttttcg aaccaggctc ggcgcgcaat 240
aacacgagtc ttgggaggcc ggtgcgcaac gtcaagtgtt atatcctcaa caagtctctc 300
aagcgagtgc ctattggtgc cactggtgaa ttacacattg gcgggctggg tatatccaag 360
ggctacctta accgtcccga ccttacgccg caacgcttca ttccaaccc attccaaacg 420
gaccatgaga aggagctcgg attaaaccag ctgatgtaca agaccgggga tctcgcccg 480
tggcttccaa acggtgagat cgagtacctc ggccgcgcgg acttccaaat caagctgcga 540
gggatccgta tcgagcccgg cgagatagag tccactctgg cgggttacc tggggtacga 600
accagcctag tcgtctctaa aaggttgccg catggcgaaa aggagactac caacgagcat 660
ctggtaggct attatgtggg cgataatacc tctgtctctg aaacggctct cttgcaattt 720
ctggagctga agctgccccg atacatgatt ccgacacgac ttgtgcgcgt gtctcaaadc 780
ccagtgactg ttaatggaaa ggcagacctc cgtgccctac cttctgtcga cttattcaa 840
cccaaagtgt cctcttgcca gctcacggat gaggtggaaa tagctttggg gaagatatgg 900
gcagatgttc tcggagccca tcacctgtcg atatcccgta aagacaactt ctttcgtctt 960
ggagggcaca gcatcacatg catccagctc atcgacgta ttcgccagca gcttgggtga 1020

attatttcca ttgaggacgt tttctcatcc cggacactgg agcgtatggc tgagcttctg 1080
 cgaacgaaag agtccaacgg aactccggat gagagggcta ggcctcaact aaaaaccgtg 1140
 gcgggagaag ttgcaaatgc taatgtctat cttgctaaca gtctccagca aggttctggt 1200
 tatcagttcc tgaaaaatat gggccgatca gaggttatg tgatgcaatc cgtgctgcga 1260
 tacgatgtca atatcaatcc tgatctattt aaaaaagcct ggaagcaggt acaacacatg 1320
 cttccaacac tgaggctccg atttcaatgg ggacaggatg ttttgacaggt gattgacgag 1380
 gaccagccgc tgaactggtg gttcttacac cttgccgacg attcagccct gcccgaggag 1440
 cagaaactac tagagttaca ggcgaggac ctggctgagc catacgacct agcagccgga 1500
 agcctgttcc gcatttatct gatcgagcat agctcaactc gggtttctgtg cttgttcagc 1560
 tgtcatcacg caatccttga tggatggagc ctgccgcttc ttttcaggaa gactcatgga 1620
 acttatctgc atctcctgca cggacattct ctcaggactc tggaagaccc ttacaggcag 1680
 tctcagcagt atctccaaga tcatcgcgaa gatcatctca ggtactgggc tggatctgtg 1740
 aatcagattg aagagcgttg tgacatgaac gctttgctga acgaacgcag tcggtacaag 1800
 attcaactgg cggactatga caaagtggag gatcaacaac aattaacttt aacagtccct 1860
 gatgttctct ggctaagcaa attgcgccaa acatgctctg cgcaaggcat tacattgcac 1920
 tctattctgc agtttggttg gcacgcggta ttgcatgctt acggtggcgg tactcatact 1980
 gtcactggca ctactatctc agggaggaac ctgcctgtga gtgggatcga acgatctgtg 2040
 ggtctctaca taaatacgct cccactggta attaatcagt tggcctataa gaataaaacc 2100
 gtcttgaggg ctatccgtga tgtgcaggcc attgtaaatg gcatgaacag ccggggaaat 2160
 gtggaacttg gccgtctaca gaaaaacgag ctgaagcatg gggtatttga ctgctatatt 2220
 gtgctggaga attatccaat actggacaag tccgaggaga tgcggcagaa gagtgaattg 2280
 aagtatacca tcgaaggcaa tattgaaaag ctcgactatc cccttgctgt tatcgcgcg 2340
 gaggtcgacc taactggggg attcaccttc accatctgct acgctcgaga gcttttcgat 2400
 gagattgtta tatctgagtt gtcctaaatg gtccgggaca cgctcctgca agtcggaag 2460
 catttagatg accccgtccg cagcctagag tatctgtcat cagcgcaaatt ggctcaactt 2520
 gacgcatgga atg 2533

<210> 2022
 <211> 3158
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2022

gacattgtaa atatgtagtg actgacatgg ctagacaatt ctcaatggct tgacaggaca 60
 agttcgccct ggggagatgg tgagccacca acacccatgc ccatcgagc ttaggatcta 120
 acgatatgtg ctatatagct actggtcctt ggacgtcctg gatcgggctg tacgtctttc 180
 ctgcgtgtgc tttccaacga ccgagaatcc ttgatgaag tcaccggcga gacttggtac 240
 ggatccatgg accataccgc tgcaaagaaa taccgccagc aaatcatggt caacaccgag 300
 gacgacgtac atttccccac attgacagta aatcggacga tgaagtttgc gctgcgaaac 360
 aaggtgcccc gccaggggga agagggacca ggggagaagg agtttgttct gcgagagcgg 420
 gatagtatct tgaattctct gggatatcctt cacaccaaga agacgctggt cggaatgaa 480
 ttcgctccgc gtgtatcagg aggcgagaga aagcgtgtgt cgctggcaga ggtcatggct 540
 ggacaagtat atcagcccac agtcacgcgc atggaagttc atactgactt tgtacgatgt 600
 acagagtect gttcagttct gggataacct cacacgcggt ctagactcga aaacagccgc 660
 agagtttgcg ggaatgatcc ggagagaggc ttatgaaaac gggaagacga tagtgtgcac 720
 aacctaccaa gctggaaatg acatctatga caagttcgac aaggctcctg tccttgacga 780
 agggctagtt acctactatg gtcctcggag tcaagccgc agctattttg aggatttggg 840
 cttcggtgtt cctaagggcg ccaatgtcgc tgacttcctt acttctgtta ctgttctcac 900
 tgagcgtatt gttgctccag ggatggaaga gaaggtecca aatacccctc aagagttcga 960
 agctcgctac cgtgcaagcg ctatctacca agaggcggtc gatgtaatca tccctccaga 1020
 aaagctggct tctgaggagg aggatcttgc aacagcagtt gctcgcgaga aggggaaggg 1080
 ccatattccc cggcctccga gtgtgtacac aactggcttg tgggccccaa tcatcgcttg 1140
 catgatcagg tcagttccct agtcattcca gaagcccttg ctgacaagtc agacaattcc 1200
 aaatcatggc aggcgacaag ttctccctta tcatcaaact cgcctcctcc ataatccagg 1260
 ccctggctcg cgggagtcta ttctacaatc tccagatgga tagctcgtcc atcttccttc 1320
 gacctggcgc tctattcttc ccgtgtctct actacctcct tgaatctatg tctgagacta 1380
 ctagctcttt catgggacgt ccaatcttct cccgtcacia gcgatttggc ttctaccgac 1440

cgacggcctt ttgcatcgcg aatgcaatca ctgatatccc cattactatc ctgcaagtct 1500
 cttgcttttc gctgatactc tactttatga gtgcgctgca gatggaggcc ggaaagttct 1560
 tcacgttttg gatcatcatc atcgccaata cgctatgttg catgcaaatag tttcgtgccg 1620
 tgggggcggt gtgtaagaga ttcggcctgg cgtcgcaatt aacaggcctg atttcaacta 1680
 tcgggttcgt ttatggaggt aagataccgg agtgatacgc agcctctgtt tagctagggc 1740
 taacatgcaa tcaggctatc tcatccatt ttctaaaatg caccctgtgt tccgttggat 1800
 tttctactta aacccttgtt catacgcat cgaagcaatc atggccaacg aattcacagg 1860
 cctcgagcta caatgtgtcg agccaaacta catcccttac ggcccgggtt actcggacac 1920
 ctcttcgtca aaccgcgggt gtccgcca ggaagcaaag gcgacttgat ctcaggagcc 1980
 gcgtacatcc gcgaacagta tagctacttg cccggtttta tctggcgtag ctttgggtga 2040
 ctcgctgggc tctgggtatt ctttatcttt ttgaccgccg tcgggtttga gaagctgaat 2100
 agccagggtg ggtcgtcgtt cctgctgtat aaacggggca gcaaccccag ctgccagaat 2160
 gagcggccag cgaccgcggc gaacaggag atggctcttg cacagtctgg aaagcaatcc 2220
 atattcacct ggaacaagct cgactatcat gtccgcttc atgggcagaa aaaacagttg 2280
 cttgatcagg tgttcgggtt tgtcaagcct gggaatttag tggctcttat gggctgcagc 2340
 ggtgcgggaa aaacaacgtg tgtatagaga atacatcatt atttgctagg atactgacca 2400
 tttaccaggc tcttggatgt tcttgcccag cgtaaagata ttggtgaggt tcgtggttct 2460
 atcctcatcg acggacggcc ccaaggtatc agctttcaa gattaactgg gtattgcgag 2520
 caaatggatg ttcattgagg gacttcgact gtccgcgaag ctctgatttt ttctgcattc 2580
 cttcgacagc catcaagtgt cccagaagag gagaagttgg cttacgttga ccacattatt 2640
 gatcttcttg agctatatga tatcccgat gctcttattg gaagtaagct tttcatggat 2700
 tgaaaagctg gaaaaacgtt aacttgtaca gtcctggcg ctgggctcag cattgagcag 2760
 cggaacggg ttacattggg tgtggagttg gttgcgaaac caacgctgct cttcttggat 2820
 gaaccacct ctggtctgga cggacagtca gcatataata gttagtacgc ttgataccac 2880
 agtctcgtac gtgtgctaac cacggaagtc atccgcttcc tgagaaaact agtagacgga 2940
 ggccaggctg tgctctgcac tattcatcag ccgtcagctg tgctctttga cgcatttgac 3000
 tcacttctct tgttggctaa agggggaaga ttggcatact ttggcgagag taggatccct 3060

tcccctactt atcgacccaa ggctctaact agactagctg gtaaggactc cgagaaggta 3120
ctagagtact ttgctgggat ttgaccacca tgtccgcc 3158

<210> 2023
<211> 3004
<212> DNA
<213> Aspergillus nidulans

<400> 2023

agtgtcggcg atcaacggcg gagaaacact cgcacacttg gggttatgat tctcgcatgc 60
agggcttgaa cgaagagtgg caattttcag caaaagaaaa gaaatttccc ccagtcgggg 120
aagcgcattcc agcatctaata caactccatc aaatccctag cttgactgac gtcaagtatg 180
atcagtggtc aagagttact ggacaggctc gtgattgacc atatgctgcg atctggatac 240
tcggagagtgc cccagcggct tgccagagca aagaacatag aggagcttgc ggatcttaac 300
gtctttgtac agtgtcagcg gatcgccgag agtctccgca atggtgaaac taaggatgct 360
ctacagtggc gtaacgagaa taaagctgcc ttaaagaaga gtcaagtaag taagagccaa 420
gctctgctct aattcaacca tgacctataa tgggtgatgc agtacaattt ggagttcgag 480
ttacgactgc aacagtacat tgagatgac agaacgaggg acagggcgaa attcgtggat 540
gcaatgggtgc atgcaagaag gtacctggca ccgtatgacg aaactcaatc agcggagatt 600
cgtcgagctg ccggccttct tgcctttccc ccgaacacaa gagccgaacc ctacaaggta 660
ttttagcccg gtccccaaga aaacctaatc taatgtgcaa tagtcaatgt atgcctccga 720
acgggtgggtg tacctctctg aactatttat tcgcacgcat catgagctcc tctcattgcc 780
ttctcggcca ttgatgcata ttgcgttatc agccggccta tctgccctaa agaccctgc 840
gtgtcattca gctaacacct cttcgagctc aaactctcat tcgaccgcca catctgtatg 900
tcctatatgc tcaacggagt tgaatgagct tgctcgaaat ctgccgtacg ccaatcatac 960
gaagagttcc gtggaaaacg acccagtagt cttgcctaata ggcagggtat acggtttaca 1020
tcgtttgtaa gacatgagca agaagctcag ctccctcgag gcaggcaaag tcagagatcc 1080
cacaaccggg gagatcttca atgagagcga attgaagaag gtgtacataa tgtaacagcc 1140
aacatgacaa cgaacgttgt tctcggatta cctcaaggca ttataggaat attcgggaca 1200
ggacattgcg ggcacgttc atctgttatg catacatgta tttccataaa ttaatcacta 1260

tctgattcat ccatactgt tgacctcttc ttcctcttcc cgggtggctcc gagttggggg 1320
tgatcatccg tcttgacctc aaacacgtac atcctcgccct tattatTTTT acctcgccat 1380
ccccctcttg cacgggctgg tccttcaatc tccccaaagcg tccgcgcgatg cgagtagccg 1440
cggtagcacg cccaggggaa tttgaagctc gtcacgaccc ttaatccagc gtgtcgtgcg 1500
aggctccctaa tattccatag ggtgtaaggt tccccctcaa acaacgtaac taatacctgg 1560
ccgggctccg tcttacgctc gtctttcgcc ttgacaatgc cgttctcttc atcataatcg 1620
ccatcacttt cctcagattc atcttcaca tctgtctcga actcccaatc gtcattccacc 1680
tcagcatcat cgccgagctc ctccaggccg tctgccagta acggaacaca cgccttgaag 1740
aatgcaacaa gtagctcctg attcgcccta acttgccgat tcacatctgt cgaaaggcca 1800
cctacatgcg ggaaattgaa acagatcatg tcccacggcc cacccttttc cttgcccgta 1860
cccttgccct tattgctcgc ggtatcttca gtagctttcg cagacctagt acttctctta 1920
ttcccatcgt gtttcttcca gacaggttcc ttccgctctt gctcgaaaaa cccagttcgg 1980
acgtccctcg cgctcccggt cgcagaacca agtttcttag catcgacgga gaacagcact 2040
tttgggccta ttaaaactctg aggattggcg gcatcattgt cctaaccctc ccgatttcag 2100
ctggttctta gtctttaagc taatgatctc ggcaattttc ttctccgctt gtgggtattt 2160
agcgaagagt gtttcttggg agtcatagca tgttgctagt aggtgtttgc agcgggtggt 2220
cgtggctagg gagtgcgcga aggagaagtc gcctggacgt ggtttgtgcg ttagtatcac 2280
cgtacttgag acgtcttagg tgggatatag gaacgatata taagggttct tgataaggag 2340
ccgcgtcagg tctaggctgc ttagggacac gaagactaga caagcgtgcg tcgggctgat 2400
gagtatacat caatcttaag cttagggcga atcggccgcg ctggtgtagt ttccgagaac 2460
tcttaggtgc ttgcttgcg gtcctgagt ccattcgtgt atacttcttg gactatctca 2520
gacagccaga atcagggag cgtgaactta ccctctcaa ctaatagaat acgatccttt 2580
ctgcgaaacg gcacaattgg ccttggtgtg ttgcttctgt ggtgcttttc attcttccgc 2640
ggcggcgcaa tattcttttc attattctcc ttggtcacac tgtttttgta gttgttcttc 2700
gtcgagagct tagcaaagga gtcactcttg cgatgcttcc tgcccgtgcc atggctcgta 2760
ttcggaccgg agtgcgcatt ctggtgttga tgcagggtc gagctctttt caatctcgcc 2820
atgcgtgcta gttgctctct tccgtatgtg gaaacaaagt gtctggtatg aaatggatag 2880

ggtggacaat accaaggtaa gacggtgtaa ttgttgggag aaaggtggaa tctaatactg 2940
 gttgatataa aatttaaaca aattgggtttt caggacgggc gacaacgcaa atatatttgt 3000
 taag 3004

<210> 2024
 <211> 2728
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2024

cagaagtgga gccagaagat ttctttggca cgatttaggg cagtattagt agaagaatac 60
 ggcgattgtg tgcttaatta taatgatacg atcgaaggcc ttaggcaaca gtggtcaggt 120
 gcagaagtat atattccggt caaaccaaga gtcattgtgg atatcgcgac tgcagataga 180
 gttttatgac ttgatatgtt gaatggagat ggaagcttag caaattcacc gtgctaatta 240
 gttcacctta ctaccatcgg atagttcatt ctgttgattc gcaatatttg atggaagtca 300
 atatacaaaa tgacataagt tagtaatatt agagataagg tggaattaga tagccttatg 360
 aaagtattgc caccacaggg gtgcttggtc gagaccagat cacgggcagc ccaacacgtg 420
 atgtccattg aacacacacc tcagttgcct cactccagcc ttgacagggc tcaactcgagg 480
 caggctccaa gtcgctggaa ttgccagcca tacaggtcta cgaggttggt actgagttaa 540
 aattacaata ttcttggttc ccaagttcct gggttaagtct tgctgggttc gatcgacagg 600
 ccaagtttct ggggcgctgg tccactcgtc ttcagacata cacctgctgt ctgctataac 660
 cagcagcag ataatcttgg gttcgcacga gtctcttggg cactgcttcc acgcaccgtt 720
 taagtogaac cctcaagaga ttgatttggt cctatcctt atatcacaat cgggtgatgg 780
 tccttcgatg atgttgacgc ctgctctagc agttcttcta cacgagaggt cgttctgagt 840
 cgtgtcgcca tggcgggacc caccgatctg aatctcgacg cgcctagcga tcttcaagac 900
 atcccggata tgtcaatgca gcttgtgcct ccgccggaag ggacataccc agacaagtaa 960
 gtgccttttc ttatttcata gatgctcata gctagaaaat aatcgctcac atgagtgggt 1020
 gtcagaacat cgcttcttgc ctctgtgcaa gcgcatgcaa aagcccatgg atataacgtg 1080
 gtggttaa at cgtctagtag accaactgaa aagaagccgg ggcgtacagc caaagtgtgg 1140
 ttgcggtgtg accgagggcg gcactaccgg ccgcgcaatg gccttactga agagacgagg 1200

aaacggcggc gcacgtcccg tctgatggac tgtccgttta tgctggttgc agctggaact 1260
 cctggcattt ggacgctgac agtcttgaac ggcacacaca atcatggtcc gattgttgag 1320
 aagccacgac aagttcctca tcacaaagtt cgaaaaggcc agatcgtgc ggttccttat 1380
 gactggccgc acgatgcaac gctcacgccg tatacaactg cactggttat cattgatatg 1440
 caaaaagact gtcagcaact gcccattgcca taacttcctt gatgtgtctg accatctcgc 1500
 agtttgtgcy ccaggtggat atatggagtt tcaaggctat gacatatcac ctgcacgaga 1560
 actgatacca aagttacagc agctactgaa cacatttagg tcagccgggt ttccagtgtg 1620
 tcataccgcg gaaggtgatt gatcccagag ttgtctcgtg tcccaatctg acctcggcca 1680
 gggcaccgac ctgatctgtc aacactttca agccgagaaa catatcgatc acagaataat 1740
 tcatccggac ttggaattgg ctgcgccgga ccattaggtc gtcttctgat tegtggtgaa 1800
 ctggggccatg acaccgttga cgaactgtat cctctccccg gcgaaccggt aattgacaaa 1860
 cccggccgtg gtgcctttgc gtacacggac tttagacttc tcctccgaaa caaaggatc 1920
 aagaaccttg tcctcgcggg cgtgacgacg gacgtatgcy tgtccacgac gatgcgcgag 1980
 gccaatgacc ggggattcga ttgtgttatt cttgaagatg gtactgcagc cagtgcgagc 2040
 gcccttcacg taagcacgat agaatcggtg aaaatggagg gtggaatctt cgggtgcagtt 2100
 gccaaactgg aggatgtaat gcacgcgggtg gaaaacttca aggccgtcac tgtgaagaag 2160
 ctggctcctc agatgacgtc taattagcat tggctaaata cttcccattc ttcaagcagt 2220
 tttagcgttcc tctgctcgag ttatagaatg aacattatta ggagggcaat aaagctgaaa 2280
 cagcataaca tagagcacc aacataacgc ctgctcagaa gacataacag acaggaaaaa 2340
 agaatggttt ataaccactt cttcccgcga gccgatacct tcgacctgaa aaccgggctt 2400
 cgaatttcca tcccccttct ataaaacggg ctcatcaccg tcttcacata cgctcatag 2460
 acttcgtca taaactgcct accgcctcc tccgtctgcy gcgccgtcgg attcgcgcg 2520
 atagaactgc tcgacgttcg tcctgacgaa cccaccctg accctccgaa gagccctgat 2580
 cctcccatcc ccatcgcgga ggaaccaagg ctcatgtac tcgaccgag tccccactg 2640
 ccaccacagg caccacaagg gggtagattt ggctgaggtg gtagaggtaa tggcaggaga 2700
 cttgtgccgg aaggcgtag aaaagcgg 2728

<210> 2025
 <211> 1758
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2025

attattacac catgttctcc agaaacaaga agtatgggac agtgccccaa tatattatac 60
 agagcaatgt atacatgcgg gtagaaagag cacggggaat ctggatgtat aaaggaagaa 120
 aaaaaactcc aaaatgctac cacgtacttc ggttgtactg ctgctcctga tgatagttgc 180
 ggagttccct ctcacgtgt gccgccatcc gacgctttgc ttgcatcatc tgttccactt 240
 cattggggcg tccctgaaac cgctgcgaag cataaaagcc ctgcatactg ggggtcgggt 300
 gcatecttgc gccgtcaaag tcgctaactg aatgatggcg ctgagccgga ttgaccatgc 360
 gcgggtctgc gaattgttgt tcagaattgt gccttgctga agaaggtggt cgagaatccg 420
 taccgtactc aggatgggga cggcccacca tcatgggcat cgaatccctc cgcggtgccg 480
 cccaaagttt cccactctta acaaggttat caatggcgcg atcgacctct gcgacggaaa 540
 gtcagcaatt tgctcattg tgtttcaagg acaaaatata ccctcgcggc ttcaatcttg 600
 ggaaactaca atgccacatc tctggcgtag cgcggttgga aatgaaattg ggtgtcgaaa 660
 aaagacaaaa ggaactcgtc gtgtgcgtac cgtcaaactg agaggagaaa gcggggacat 720
 cgtcacgtcg ggagacggag ctggatcctg atcacacatg ggtaagtttc tgatcccgtg 780
 tcgcaaaaag tccaaccgcg gtgtgacaga tcgattcata cctgatcgcg acggaggcac 840
 aggctgctcc caggatgcct gacgagaagt cggggcctgc cagccttggg gttcgtagta 900
 cgccatttta tcgataggag gctttgaaga ttgtacgcgg aggaacggca agggtaactg 960
 attcacttgg gaaaaggctc aaccctgttc tatgctgcga acgaaactgt aagctttcga 1020
 acaagacaat aaacgtggtc aatttcaacc gagagtcaaa agccgggtcag atgctagtct 1080
 gtcgagtact gcagcgaccg ataacacagg cagttctcgg agtccctgga ctatcccgtt 1140
 gagagtatgt gaaactgatt ttccacctcc gctcgggtgc cagccaagag agttcgatgg 1200
 cccaagggaa tccgagtata gcccaaaaac aaccgactcc ggtacaaaaa agaaagagaa 1260
 tagacttgac ggctcggttt gatcggaccg agaggaaaaa gcaactgcggg gaagggggag 1320
 gacttttttg gacgggtgga cggcagctta caagaaaagg agtgattgtc cccaagaaaa 1380
 ttccaggcgg ctctaccacg agcgaacgag gcagaaggag cgacaaaaag gtagcaaaat 1440

ctcaatccca aggcacgaca gacaaatgag tctgacgtgg aagagcgaaa aaggagagaga 1500
aagaggtggg ggaaaagaga ataagacggg ggggtgggga gaggaagagg aaaagagtcg 1560
ggtaggagag gtgcgacggt aaaaggcaag aaaaggatag ggagatcggg tgtgagggga 1620
gccagcaggg agcgaagagc gaagaggggg aacgagaagt ggatattatt ttgattatta 1680
ttactttctga ccggaaataa cgaactggta atagcgatac ataattatca gactttccca 1740
gttggcgact tgacagct 1758

<210> 2026
<211> 2641
<212> DNA
<213> *Aspergillus nidulans*

<400> 2026

atatctcaga ggtgaatact aagtcaagtt ggtcatgcat gtcaggctt cctgttgatt 60
ctagttcacc aaacaatctt atagacgcat ccgttaccca tccagctaag cacgacacag 120
gtctaaattht cttattactt tttcaaaaaa tgccagcttc aactccaaat cccgttcaag 180
tccatgcct gtctgaaagt tatctcgaag acatttataa acagcgtcct taaagtgcgt 240
gcccgttcga aatcccaggt tagcaatttc gcgtcgagtc agcctggtag aaaaaaccct 300
gctgggtcaaa tgtctgtctt cctgcttcat tttatcgaag tatgaattaa taggtcgcca 360
cgttccaatc tcgaaaagga ccataccaat gctgtaaatg tcgtatagca gcctgtgtcc 420
tggcgtatcc tgtccttaat aactaggatg ctggtaaagc tcaaggctgt cggtgcggga 480
ctgtcggcca gatatgcctt tttcttgagg tcaagaaaaa gcaaagccca tgatatgtgg 540
gtcgctaaca gaccaggaag cgccatccgg gaggaagtat actatgtggc tgctaattgt 600
cttgagatgc cagcccaatt ggaagaactg aagaaatccg cgcgcaatta tttgcgcgtg 660
ctcgaatctt tcccccaaag atggtaggaa tcgtttgaac tgttccatcg aggggtaatc 720
gtgcaatgat acaggattat ggtcgccgcc tgaagggctc aacggcaagc tgaaggcgaa 780
gccaatgcga gggggctgaa ggtgtctttg atcaacaagg ccaacacatt caaaaaatca 840
ggtactgcgt tttgtgtttg tgtagtcttt gagtatctgc acaagcctgt tcgcttgttc 900
gtaacgggcc ttgccatct ctctgcggc cgcgctattc agaagtactc gccattcgat 960
gagagtttgc ttgccacgtg ctcgactaag cacctgtcag aatctgaagc ccgaataata 1020

tcgtcgggca gggcaaatat gttggtagta gccgggtacg tgttgccagt tacagtcgga 1080
 gcgacagttt ccatatcctc ctccaggcgg aggcgggcta atcgtgccgg tacagctata 1140
 gactcgtagg agcctaacgt ggcagtctca atagcagtca gtgcctcgcg gcgatggggc 1200
 cagcttggtc ccaatatggc gagcttcatt gcggccattt cgccttttgg ttacgcaccg 1260
 acaacagaac gaatttcctg cagcccaaaa tattcacagg ctttatgttt atgggcgag 1320
 ccatttcctt ctggctcgta agagcttgga agatatcaga gttgcaaaag actggtgcgg 1380
 gtaaacctcc cctcgaaagg gaagccgtga tcagggacga tgatgcgtaa gggacaggac 1440
 gtttagcgga gattttattg tggcgagcaa ggcataaact actaagggat tgatcatggt 1500
 aaaggataaa acatacaagc aacttgataa gtcaccaat cttaagtctt aataaaggca 1560
 tttccggaag tggctagcca gacgctccgg gaaatatata gtgggacttt caaacaatag 1620
 gattaaagt caacagataa atttgttccg gaataaggga ccagaaacgg actaggcaat 1680
 gtagatggtg atattctgat ataatagtca aaagcgtcag agtgcagatg tgcggggaag 1740
 aatcttacgc agcgtgtaat atattcctta aatcttacc taacactacc ctctgcatg 1800
 agtgtaaggc agatttagaa ttgtttgtg aagtggcacc acttatttcg ggcaattcca 1860
 agccagtact atatttatat attaataaaa tagacctggc tgccttgta tttaaaagtg 1920
 ataccattct aagtagtggg tgagttcagc taagatttgt aacgattaag caggcccta 1980
 tatccgttaa agtctacttt ttcggcagcg cctcgcctt ttaccaata aggaagtaag 2040
 tttgtcgtga tttttagatt cctgaaggag tatggcgccg ccgccatgta caggaagcca 2100
 tcaaaagtac agtcacattg cgatttcacc taccgcgtt ggaagtagtg acgtggctgt 2160
 agatggcgaa tatccttga tttctgtaca taatgatgcc gcgatacatt tatctcgttg 2220
 ttttaggtac gcctggaggc tcagaacaat agcatcggat ttgtttttga gctctattaa 2280
 atcctggggg gaggatcctc caccttgagc gcgtcctgcg agagctattc ttctgtcaaa 2340
 ggtcaagttt caccgattta gagtctgact ctctcgcgt tgctgcggac tccgattggt 2400
 gggtttcttcg atatacgatg tcaccaaaaa actattatgc gatctacaaa ggccgcgtag 2460
 accgacctac tatagtgtct tcttggtatg taataccaac ctatgaggca aatgtgttaa 2520
 tcatgattcc cagggtcag gcgcacccta gggtaagga atataacggc gcggatcatg 2580
 agggttttga tactcttgaa gaagcgcgca actccatgca gataaggggt ttcacgagta 2640

<210> 2027
 <211> 1525
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2027

```

attctgtttg ggttgagcgc ctttgggtaca tcccgccgt ttctaccaat acataagggc 60
aaggctgccc agcttgatca attagtggac tgatcatgct tcgaggtaca agatgctatg 120
cagaggagat gagggacaat tcgattgcat acctactcat cctggcgcac ttatgcagtc 180
tgctgggtact tgcaaaagag gcccctgtca caggacggcc ttttcgacca aacaagactg 240
ttcttagggc ggatcagacc aagcatccgt tagatactca gacgtccaag gtgcagatag 300
gaagtcgatg gattggagat gtcagcagca taacttgaat cttggggctc ctgcgcgtct 360
atggacgcca ggaacctaa tatacgaaag caatgaatta tccatgtgcc gcacgcgaac 420
caccacatt tcctcttcga atctgtgat ggaagtcagt cacacctcaa ctgggacggg 480
ctgggttggg gtgtccgctt cactcttaa ggcccagtcg cgacatgacc agcaacctac 540
cgtctatctc tacgatctac ctacaaagtt atgcaaacc agaagtatgt ggtaggtcaa 600
ctcgagaagg cttttgtctg actgtcatc ctttcagcg tgggttatga cactaaggca 660
ctagtctatt gctatgtctt ggttaccctg atgatgtcaa gttcgactcg ttggttacag 720
ctgcctcgaa agtggaccgg taggaaagat gccaaatggt gaagtttcag atactaggta 780
gcacaatgca gccatgtccg atcatgtgat atgtggatga cgagggtcac ttcgaagctg 840
aatgcattg ggactctcga attctacgtg ggatcgtcta tgaaaattgt ggcaaattgg 900
cggggattta gggcttgttc ttggatgaga ggaaagtcaa acaaaagaga gtaggttaga 960
tcatagtccc cgctcacatc tattagcgaa ggcaagttgc aggcgcaaaa aaggaagagg 1020
aatggatgat gactctacat catttgtttc attgagtcag gtcgtacata tcattactcc 1080
gtactacatt aagatcttgt agtagcaaga ccaaagtctt ccgataccag tatccgtacc 1140
agtacagatc aaaagccaga gtggaaattc ggaataagaa gaacagagaa agaattaaga 1200
aaagagtga gtcacaccta aacagagcag gatatcgctt cacttcactc tattgcactt 1260
gcaccactct gactccaaat cagaaaagaa cgaagggcat agtcaatga attcatttcg 1320

```

gctgggactc ctcatgcacg gcaacagcct ccgctctctt ctctcatcg acatcaaagc 1380
cagtctgctc cagcctcgcg gcacgacccc gttcattctt cgtcttccaa gccggcggtc 1440
caatgtactt gatcccagcc ggaatcgtga aaatgccctc tacatcttcg aggggtcttac 1500
ctgccgtctc ggggaacata cgaag 1525

<210> 2028
<211> 2318
<212> DNA
<213> *Aspergillus nidulans*

<400> 2028

gtcgtttggg aactggtgtc tggcaatcgc tgtgccagtg attcaaatgc gacgagtacc 60
caaattatac cggtccattg tgcgagctct ccttcagttg cgggtcaagg cgctaaaaac 120
agacaagtgt taacaaccgt gagtcgctac ccataatac ctaatttgtc gagccatctg 180
cttacgtcca ctccgcatgt cacgaagact ctctcatata gtcaccgccc gtgagttcat 240
aatatgtcat gcctgtggac cgagaagttg gggctctcgg gtcgatcgtc aggtttggac 300
taagggtcag cgtacgagta accgggaaga gtggatcgcg taggaagggg ctgttttcaa 360
gcgagtcgat cttataactca agcggcctcc ctgtgggttc gaaataaatt tggaattcac 420
caaaaagtcg atgataatca agcgtcaatg taagagcatt aacagaacta tcgatatttg 480
gtccatcaag acggtggctg agcccagggt caaacatgct taagatgcga aacacattca 540
tctttgactc gctcttggaa cggtttagtaa caattaaagg caattgccaa cgacgtacgc 600
accaattctg attctccctg cgctaacgtt gtcaagctgt gagggagaat gtgcgcaact 660
tcgagatgct ggaatccacc ccgtgattca ttgctcagaa gggttccgtc gtcgtcttta 720
gaattatccc cattctcttg gaagcgcttc cgggcctcga cgatategaa tttgcgggat 780
atcacacacc ggtggtgatc acgtacaaga caggccttcc gtaagataga gatgcgctgt 840
ttcgtgcccc cttgtgtagg tgtttgactc aaggacaatg ctgtaggtgt tatttgtggt 900
gttttgacag atgaagccct gactaatggg tcccattagc aaaccaatga ttttgaatgg 960
cagcgggcaa acatacgtgg aagaaggaag ttgtcgacaa tatactcagc aaagttctca 1020
agagcgccct ttatatgcat ccttctgctt gggccatac ttcggtttcc agcaaaggac 1080
tcgagataag acaggaccga acccatatca gtgtctccag cttctccatc agcgttgaga 1140

atctcataga tatataagaa aaggaacctt agaaacgtgt ctgtggatgt cactcgttta 1200
 gacatctcct caatgagctt tgctggcttg taaccctctt gaacgctttg tccgaggcca 1260
 taatcctgta tgaagagatg cagaagcgca taggcctttt gtctttgctg tggagttaag 1320
 agaaaggctg gagagaaatc caacacagtc tctaaggatg attgatgtcg atgctgcgcc 1380
 atgggtgtag gttacgataa ggtcagagtc gcaaggggac tgactaatct atgattaaga 1440
 gattatcacg tgcggcaggc ccaaaaccgc ttcggaatta gattcatccg gtatgataaa 1500
 ccaatccaat cattcctcct gcttacgaat aaaattccaa caagcacctg gtgcaacttc 1560
 ggatagggaa aagcggctgc gcagtgtaat cttccttgca gatcgacatt caaccagtc 1620
 tcctcagcaa tcctcacgat gtagccggca agattcgact catcatcgtc ggcgccggct 1680
 tgactgtttt cacagctgcc gccaaagctaa ctgaggaccc aaaagtcaag gtccttatca 1740
 ttgagaaggg cttctacgaa tctagtgcg gcccaattat cgaggatcca accaagtata 1800
 gcaagatctt cagaaccagc gctgaccaga acttttttac cgtgccgctt atcaacaacc 1860
 gcacagagct catcaaactt gagaaaggcc ccggaggatc cacactgggt agtggcaatt 1920
 catggacatg ccctgataag gccaggttg attttgggag aaggctcttg gcatggacgg 1980
 gtggaattgg gatagcctgt tccagtatat gaacaagggt gaacgatccc gtctcccat 2040
 tgaggctcag attgccactg gccattcctt taattcctcg tgtcacggat taaatgggac 2100
 cattcacaca ggggtaccgtg atactggcga gccgtgggtc ccgctcatga acgcgttgat 2160
 gacaactgtt tccgagcagg gtattcacac gcagatcgac tttcactgtg atcgacctcg 2220
 tggcgtttct atgattcaca acaatgtttt ggaaaaccaa gtgcgcgcgg atgcagccc 2280
 cgaatggctt cttcccaact atcaacgacc caacctaa 2318

<210> 2029
 <211> 2819
 <212> DNA
 <213> Aspergillus nidulans

<400> 2029

agatcagggg ataatgccct gaccaattgg ccaggagaaa ttaaagtca tcagaacacc 60
 ggtatcgagt tcgaaacccg atttttaccc ttgtggccgg tagatgggtg gcattgaaat 120
 tcaaagcggg aaaacgtggc cttgacgact gggtactttg aaagtgcga gttcaactgt 180

tcttacgaca aggtagagtc gtggcgtag tgggcttggg catacgaagc atcactgtca 240
ggtttgcaaa gctctagcat ctaaagagtc gaaagcttca ttacgtcggc cggcgagctc 300
ttggcttagt ggactatfff ggattctatc acggatctag ttgagttgca ctcagctttc 360
cttcaaagcg tggaaggagg gctgcagcgt tcagcccggc tcttcttgct ctcgaattgc 420
cagcgtcaat ccttccaaac catcaaagtc aggtataaag ttcatttcat aacaccacca 480
tggatgctcc tcgtacctca cgttttctgg acccgacgtc agccgtggcc gcaatcacga 540
agcacaaagc agaggccatt cggctagcac gagagcaagg tgctgccgtc cgtgagatgt 600
gtcgccgggc gaagacagag acgcccccggt atgagttcga agagctcatt ggtaagggcg 660
cctacggctg tgtgtacaaa ggccaccagc ttccgtctcg agaagtcggt gctatcaagg 720
ttcttgatat cgactcatta gattataaat cgggtgcgca tttcaaggat gagtcgatta 780
aggatttcat acatgaaacg aaggtgatga agcaggtcaa ggatgctggg gogaagaata 840
tcaatgaaat catagaggcg gtgtctattc attcacagct ctggttgggt tgcgagtatt 900
gcccagggtg tagtgtagg actttggtag gttgctcaaa cttggacttg tgaactgttg 960
ctgaatgttc agatgcgagc aactggtgat cgactcgagg agaggtttgc tatcccggtg 1020
gctcgtgagc tggctgctgg attacgtgct atacacgatg cgggcatcat ccatagagat 1080
attaaagggtg taaacgctat gttacatgat ttgggtgtaa ctcttgctaa ctcagatact 1140
agctgccaat gtccttattc atgaggaagg aagactacaa atatgtgact ttgggtgttg 1200
tggtgttctc cagtcacaaa tggataaacg atcgacctgg atcggtacac cccactggat 1260
gcctccagaa atgttcaactg ccaagcagga tcatcagtac agtagcgagg tacgtacatt 1320
gatactcgtc atatattgtc actgacaacc tcaggttgac gtttgggcat acggttgtac 1380
actgtttgaa cttgctacag gaaacccgcc aaacgcaa atctcgagaga gaatgcagat 1440
tggcagacag ttgaacagaa aaacaccaca actagcagat ggcggtgaat accctgaggg 1500
tttgagagat ctagtagcat atgctttgaa ctcagatccg gttacccgac catcaatggc 1560
ggatatttta ttacaccct atattgcgaa ttccgaggaa gagtaccaa catcatccct 1620
gagcgagctc gtccgcatat actaccaatg gtcccagcgc gggggccaac gcatttctct 1680
atttcatcct ggcggagctg cagcagcgga agtgccagat gttgaatcag atattgatga 1740
ggattggaat ttcagcacga cggatgactt tgagagaaga ttctccgtta ttgacctga 1800

tcaattggcg gcttactag ctgagctaga gcaggagatc aaggacacga ccggtcagcc 1860
acagcaggaa ccggccgacg agccggcaga gactgagatg acagagcaag acaaagccaa 1920
ttttgacgaa agagtgcgcc gaggtgctgc agccatggaa ggctcttttg acgaagaaaa 1980
gcccagctac aaatacgaga cgaaaaacga ctttgtgcct attgagcaaa aggccctgt 2040
atctgatctt cctcttcgca ccgacactga ccgctcctcg gtcacatcga cattcatcga 2100
tattgacatt cctccttttg attcttccca ctatgccgct ggccgcacaa ccgcccagcc 2160
attccagctt gctgatgcag ataccattcg cgctaataga tctagcggac gaaaccgcag 2220
ctttaacgaa ggccgggtcac ggtcctcgag tagtgaagtg cgaagcagcg tggatataca 2280
agaaactttt caacctcgca ccggggccg gcccaccacc atggactgga aattcccatc 2340
cttcatgacg gctcccacgg aagagccaga gtcagagtcc gtttcggagg ttgactcggg 2400
tgcagaggct ggggtctgaat ccgagcctga acgtattgcg cgcgactctc taacgcagcc 2460
cctgacattc gccccggccg aaaaacgagc cacaatggag tggacgttcc ctgtgatgac 2520
cacatctaca gacgacgacc acgttagtcc tcgaaacagt tcttccgcag aagaagacgg 2580
ggagcccagc cgccatgaca cgctcaaggc cagcgatgca aggttcacca gtatcgggtga 2640
gaccgggcca cagtgatagg gacatctccc gcccgtcgac atatgcatcg gttcagtcga 2700
atgtttctgc aagctcagat acaggcgacg tcccctttcg ctccgcccgc cctccctcgc 2760
ctccggaggg tagcacacaa tacaagcagc agcaactagt tcctagtcta cgagtacc 2819

<210> 2030
<211> 587
<212> DNA
<213> *Aspergillus nidulans*

<400> 2030

ggttctttcg ataaacaaga tgacaccct gtcactatat ccgattttgg ggcgcaaagc 60
ctgatcatcg ctgcaattca tcgtcatttt cctgatgatg atatcgttgg cgaggaagac 120
tcaaagactc tccgtgccga gccggaactg ctccaacgca cctgggacct tgtctcgtct 180
actcgacttg aggatgatga gagtgagaaa ctctctcgg caccgagctc gaaggacgag 240
atgcttcacc tgattgatct aggtgcgcag gggagctgca agcccaaagg ccggacgtgg 300
gtccttgacc cggtcgacgg aaccgcaacc tttatgcgtg gtcagcagta tgccgtgtgc 360

ctgggccttg tggaggacgg gaagcagatc attgggggtta cgggggtgtcc gaacctcaac 420
 ctcgagtttg gcggtatcca ggaggacctt gcggacgtgg cagggcgcggt gttgatgggtg 480
 cttcgctgtc gccggtgaag gcgcgtggac aaggccgatg ggaggcgggt ccctcgtgcc 540
 tgcgacaaag attcagccgg tcgagcagat tacggaccct aaagata 587

<210> 2031
 <211> 3249
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2031

gtagggctta ttactataga acgggacagt catagccaaa gcagaatata aaacggccgg 60
 gtattttcat gaaacgagca cagcagcagg cgagcagacg agcagacaac agaccgctgg 120
 agtctggaga aatactgcga gagggccgga gcattgcaat ggcagagtgg cgcgaacact 180
 gtgctttgct cgactccacg gtcgcgctca caccacgagc tcccattctg caatgtacgc 240
 ccacgccatc cccacccggc cgacctgtcg ctgatactcc tccaccgtca ctccacgtgc 300
 atcttccaag tcgccaaact tegtcaatac cgccagctgc actttctgcc cggcgcgccc 360
 cagcgttcgc gggccaaga tgtcgacata ccatacatcg cctccgcccgc cggacccaga 420
 ccctcgccag tgtgtcaacg ggagccggtc gtcttgccca ccgtccaagc catggatcat 480
 gagcaagaac aaccccggt tagcacgact gtgtcggtcc agcgaccagt gctcgcagat 540
 cagggttaaac tggaaacgca tgggtcccgg ctcccgaatc gagatccggg ccgcagccgg 600
 ccggaacgac cggtcgccga tactgtgttt ctttgcgtcg ccaaagacca tcggctgcgc 660
 ggccccaaga ggtgagttcg ggttccccag aatgtacttt ttctaggtga tctcggtcgg 720
 gccgacgtgg cggtagaatt gcgagcggtc cttggggaaa tgtttgagcc cgaactcgtc 780
 gttcgtatcg gtgaacattg tgggcgtgaa gctgcggacg tacggcatgt ctggcccttg 840
 gacgtgtccg gcacccagc acgggtcgat cagtttccac tgcccgttgt cgatgcggac 900
 tacgttccag gcgtgtccac tgggagagta ggggtgggaga ggtgcgccgg gcgccgggnc 960
 ggcgtanccg tagcccttgc cgtgacaaga gaccacctg gcttctaggc ccgcatgagt 1020
 agctagcgta gcanatagtt tcgcgtaccc ctgcatacg gccagtcctg aggcaagagt 1080

gctgtcaggc gtagctggct ttacattatt attgtagaac gacactgtat cgtagtctat 1140
gttatgatgc agccatgtaa agatggcccg agccttgtca gtggccgaaa taaagggcgt 1200
ggtgagttcc ctggctagcc acccaagatc gtgggtcggc agcgactgtc tcggataccg 1260
cgcggcatgt gcgtcaggcg cagagaagtc gcgacatttc aagcacgccg ctgcggccgc 1320
aggcggcgcc tcgtttgata cagcaatgcg tggctttgtc acctggatcg cagagaggtc 1380
tggacgagac cccaaaggca ctggcgggtg tgcaccggca ggctctgtgg tagtgcccga 1440
tgtcttcttg ttcagtcctc caagccctgc cctctgatc ttgtccaatg cagctcccga 1500
tggaggcggg ggagggaacc gtctaccctg agtccgcccg cttgtctcat cagctggggg 1560
actgggagac ttgtcacgcc tctgaggcag tgttgaacc gaccgcggt gaacactgct 1620
ctccgtcgaa acgggtcaaca caccctggcc ggaagaccga cgaggcggaa gcgtcggtcg 1680
cggaggcggc aaccgcccac tgctccccga tgtggtaggt ttccggcctcg atggcgatac 1740
aacggactgc gtgctggtgt tcgtgctcgt tcgcttcggc ggcaacgggg gaagctctcc 1800
aacgccccat ggccggcgct tcacgaccga cctggtgtt gtagctctag tgctccccgt 1860
tgaccttctt gtgctcgtag atgtcgatcg agacgcacga gacgttaccg agtcgataga 1920
cgctgcagac ggtctcgagg tggacagcga tggggcgagt tggctcgagc ttttgccggc 1980
gggcagcggg gggggccttt tttgctgttg cctagagggt ggccggcgag tcgcgatgcc 2040
gtccgatgtt gagacgcgt gcgaaacatt ggacaccaga gactctctc ctaccgatgg 2100
tggcggtcgg atactataag gagggggagg gctgctgaca ccgtttgact gtgaaggagt 2160
tggagctgga cggagagcaa aggcggtcgg ctgcgatccc gagagcggcg atcccgtgc 2220
ctcagaggta ccggtttgtg cctgcttcag ggcccgatg cggctctgga tggagagAAC 2280
ctgggtttct tcagccatac tgcactcgat tgttgttatc aatttccagt cgggagagac 2340
tgcaatcgat cgatcgtttc cagttcaaga gcgaccaaga tcggacgtgg cctggtgagg 2400
ctcaaaccga atggggcgct tggcgggaga ggggcgctat cagagccttt acggcattca 2460
acgccatacg gaggagagaa ggagagtaag gaaaggaaaa caaaaaaag aaagataacg 2520
aaagataaac gggcgaggta gggatataag agatgcagtg cagtgttggc ccagctcga 2580
aaagattggc agcctctgta ggaatgcaag aaacaaggct gagacaacga ccgagcctgg 2640
ccctgaaacg aatcgaaatc ggttgccctg tgatttgtgc ctgggtttta aggtgtcaaa 2700

agtccgtctg tcaggcatcg acaggcgccc atttccggag atgcttaaag cataactcact 2760
 actactcctt gactgcatcc agcccagatc accttccagt gacacatcag ctttttaaag 2820
 aaaaccgccc tccattatga tctaaagcgc tagttctatc gagttcacia cataataggc 2880
 cagtaaaaat gccaccccca cttgaagcta tcacgacatc gcggggcaaat cagtgcatac 2940
 agtacagtac ccgttgaaaa aagaccctgc cacctctaca gcctcaatgc cagcaatagc 3000
 atcctagtca tcttacaatg gcgctctgga aagaccagac ttctcagata cagaatgaag 3060
 tgcagcaggc gtcgcccggc tccaaccatg actacgacca cgacccgtta accgcaccgc 3120
 tgaagcgcaa gctacactct cggcatctgc agatgattgc tattggagggt atgctcagtc 3180
 actgataaca ttcagtcaga aaaaagacta aagagaatta agaaatcatc gggcccgggt 3240
 tattggtgt 3249

<210> 2032
 <211> 5300
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2032
 ctctccgtta ttattattgc cgttgttctg gacgttttgc gacaaatcct ctttaaaaat 60
 cccaatgatt cttttgtcgt cttccactgg ttcccgttta ttgggagcac cattagctac 120
 ggcattgacc cgtacaagtt ttttttcaac tgccgcgcac aggtatgta tatctccatt 180
 cgattgaaa gctctatccc tgactactgt ggctcatatt tagtatggag atattatcac 240
 gttcgtcctt ctgggaaaga agactaccgt ttatctcggg actaagggca atgactttat 300
 cctgaacgga aagctaaaga tgtgtgtgcc gaggaagtct attctcccct gacaaccctt 360
 gtatttgggc gtcacgtcgt ctatgattgt cccaatgcga aactcatgga gcaaaagaag 420
 gtgaatcccc attcgttctg taggtttccc gtggaatctc tatctgataa atttgcagtt 480
 cgtcaagtac ggccttacct cagatgctct ccgttcctac gtccagttga tcaactgcaga 540
 agttgaagac tttgctcaga aatcatcagt cttccagaac gcgaagggtg tcttcgacgt 600
 atcgagaacg attgccgaga tcacgattta cactgcttca cgctcgctcc agggaaagga 660
 ggtacgtgac aagtttgact cgacatttgc ggagttgtat catgatcttg atatgggctt 720
 tgctcccatc aacttcagtc tcccttacgc gcccttcctt cacaaccgga aacgtgacgc 780

ggcccagagg aaaatggccg aaacctatat ggagatcatc aaagagcgtc gcaaactctgg 840
 cgagaaaaaa gattctgagg acatggtttg gaacctcatg tcttgcgttt acaagaacgg 900
 aactccgttg tccgacgaag aaattgcca catgatgatc gcacttctga tggctggaca 960
 acattcatct tcctctaccc ttcatggat tctgttgcat ctgcgaggc accctgagat 1020
 tgtggaggag ttgtatcagg aacaactcaa agttttggga tctgatatgc atatgaccta 1080
 cgacgacctc cagaagctgg agcttcattc caagatcatt aaagagacat tgcgcataca 1140
 tgcacctatt cactcgatca tcagggcagt caaagtcct atgcccgtac ctggaacctc 1200
 atacgttatc ccaacgtcgc acaatgtcct ttctctgcct ggtgtaactg ctaggtccga 1260
 tgagtTTTTT ccgaacccat tgaaatggga tcctcaccgc tgggacagca atcctattgc 1320
 caactcgacc gaggatgagg agaagatcga ctatggctat ggtctggtca gcaagggtac 1380
 caacagccct tatcttccat ttggcgctgg gagacataga tgcattggcg agcaatttgc 1440
 ttatgtccaa ttgattaccg tcaccgcagc tcttgctcgg ctgtttaagt ttgacactgt 1500
 gtccgagtcg gacaaatcat ccgtcccga gacggattac tcggtaagtg gtcgaaaatt 1560
 caagtagcga tggctctagc taacctaaac acagtctctg ttctcaagac ctgctggtaa 1620
 atgcttggtg caatatgaga agcgcaacgt cacaaccaa gcatgaattg atacgtctta 1680
 atggatatat gcttttcaag ccacataacc agtttaaagg gggcttaatg ataacagcgt 1740
 aatattgaca tccccaacgg acaagactgg ttgcaccaa cacttcattc attgtacatt 1800
 atgctgattt tctaaactca acttataaat cattaattct gcctacattt catattgaaa 1860
 cttattaata tacgacttga acttcacctt tgattccgtg aaaagtcaca gtgtctaagc 1920
 tcccccccc aaccccccc aaaaaagggt cagtttatgc gagcattgat ttctcttggg 1980
 ttggttcaga gtgatggtac agtaacaag ctataatata aagagactat aggagatata 2040
 tagccggata ttcatgcac gtcctttcct ttcttcagct ctcttcttag cctgatttc 2100
 agcccgctct ctctcaccac catcaacctt atgtccctt ttatcttccc acatcccttc 2160
 ttgaactctg attatagctg cgctgccatt ggtaccgct attggtgta ggtaaggacc 2220
 cctgatataa actccattgt ggattttcat gcccttgtag ctcttgagct ccttcgaagg 2280
 gtcattgttg tattcgggtg catccggcgg cagattcacg attactcgtt tcattcctgg 2340
 agtcagagta gccgaataat tcataagatc cacagagggg gtatctttag taggtgccat 2400

agggacctcc ataaccgta actgtgcagc gccgtccacc acgtgctcga ggtctccgcc 2460
 aggtccgtac cagccctttg tgaactttga gcgtttccgg atcaggtagc gtcgttggtc 2520
 tgcagattca attcctgcat ctcgagggtc ctcatgac attgagaata atttgccca 2580
 ggaagggaat ttgctggcat gttttgacat atcgcgccg attagtttga ggaaggtttc 2640
 gacatttgga acgaaccggt gtcggtagag gaagaggctt ctggcgcggtt gatttaggtt 2700
 cagtgtgaat agctcgtaag cattgctgtg tggattgaaa tgacctgaac gtccgaaaaa 2760
 tcgagaatgg attgcgtagt gccatggtat ggcgagaacg aaaggaggct gaaatgagat 2820
 tacttgaatg atgcgttcga gacaggggca cgaattattg gcaaacgatt tatttttagg 2880
 tgccgaagcc cagagcactt atcaagattt gcccgtcagt cttgttatgc ttggatagat 2940
 attgttatga tgcgcagcga aatttcggca atgcctgctc ccctggaata atgaaaatcc 3000
 ggcgtccgt atctcttcag atcatcccaa ccatttttct gagactgtcg aattgctctt 3060
 accttacggg aaagatattt gtatcctgta tatccttcaa gttttcttgg tcgcatcgga 3120
 atactcgggg gtgggtgttg actatctatc agttctagct cattcaagct acagagcaat 3180
 ggcggtttcg ccgatgatag ctccatcgca ttcaaacaca gtcctcaga agagcgctga 3240
 ctctggagcc gcgactcagc tatcacaaga tgttggtgat cgtgagatca cagaacagat 3300
 gaacgaggaa gtgaggcata agtacataaa aggcatatta ttacgtccgc tattttgtat 3360
 ctggctaact ctgtcaaagc taaaaaacta ggtgaaggta catacgtgt agtctatctc 3420
 ggccacgtcc gatccgatcc tacttcattc gtgccataa aaaagataaa agtcaatacg 3480
 gaatacagag atggattatc catggacgca attcggaag tgaaatatct ccaggagctc 3540
 tcccatccca atgtcattgc gtcctatgac gtattctcgt caaaggacca gaatctcaac 3600
 cttgtcctgg agtacttacc acgcggtgac ttggagatgc ttatcaagga cagcgatata 3660
 cactatggtg ctgccgatgt gaaagcttgg atgggaatgc ttatccgcgg ggtctgggtt 3720
 tgtcatgaga actttgtcct gcacgtgat atcaagccaa ataacttgc tattgectcg 3780
 gacggggaag tcaagttagc tgatttcggt ctggccagat cgtttgctga cccttatatg 3840
 aacatgactc accaagtgat cacacgatgg taccgaccac ctgaacttct gtatggtgcc 3900
 cgccaatatt ctggcgctgt ggatatttgg tcagtgggaa tggctctcgc agaactcctt 3960
 ctgcgagtgc catttgctgc tggcaattcg gatcttgatc aaatcagcaa aatttgcgaa 4020

gcgttcggca cgccaaccga agaaagttag cctgggtgtgt cgaagctgcc aaattatatt 4080
 ccagcagata ataacatacc ttgcaaggc cgagagttct tcctcaggca attcccgaca 4140
 gctggctcctg tcggcgcaga tctactcatg tccatgtgta ccttagatcc aagacggcgg 4200
 accactgcgc accaagccct tcagcataga tgggtggacta cggagcccag accgacaaat 4260
 aaacaggacc ttccacaaaa acctggcggc accaaaaaaa tgggagatga tttgacaagg 4320
 cgtggcggag agcttgatga ccaattcaaa aatgctgctc ggcaactaga tttcgggtgcc 4380
 ataaaagggg agcactttgg aactccgaaa cagccttgca cttagaggatt ttgcggcgcg 4440
 ttcacacctg ccattgacgg ttctttaaca gaacagaagc tgccctgcat ttcacattgt 4500
 ggaggacggg gtggagaatc caagagagtg cactatagtt atcctctggg ctgcagcgat 4560
 ttcccatggg tagcaaaacta caacttgaag tctggcctga ggaactgatc caccgccaga 4620
 caaagccttc cgcgtatgag actatacaaa ggaactccag cgtattccgt atattcacta 4680
 tggacctcca cgtccttgat tgtctcccag gcgagctctg agcctgttaa cgctggccga 4740
 aattccgcaa cggctacggg gttgtgattg gtcccccttt tcaccttgcg tctcaatatg 4800
 tccgcgccag gactgatatc gggggcttat cgaggcacga gtgtcctcct attggcccaa 4860
 gggcaaagga ctttataatg agatcgacga cccaagttc gatcaaataa gaagaatagt 4920
 attatcgatt tatcaatgat caagtctgtg ctctcgagac tccaggataa aacgggctcg 4980
 aacgggtcaa cgaatttaag agtgcaccgc cgatgtaaac ctgcacgaga cttcgagctt 5040
 cgagcttcga gccaaagcgt gtttcaatgt caaacctca ctgtagaacc tagcttaaga 5100
 ttcaagacaa tgtgagaatt gctgccaaact tataatcact gattggcttg tagaaccagc 5160
 gtatgaaaat cggatcggga gcagtataca gagagttgaa ctcggaagaa ctcatctctc 5220
 agaaagacca ggaattcga tgccagaata caagactcaa gtatggagta tagcggcgac 5280
 ttctgctaag aggcattgtc 5300

<210> 2033
 <211> 1489
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2033

agtcccaagt ccacgagagc ggcgactctc ccgtcgctc gatcgaggag tttaccacca 60

ctcccttcga ctttatcgtc tgcggcggtg gaacagctgg gctggccatc gdcgcccgtc 120
tgagcgagat ttcgaatgtc aatgtcggga ttgtagaggc aggaaaatac cgcacgggcg 180
acccgctcat cgagacgctt ggcaggttca tgcagatggt tgaggacca gactacgatt 240
ggtgtctgtt tacagcgcca caggaagcga acaacggcaa ggtccatcat ataccgcgcg 300
gaaaagtcct cggcggatcc agtgcaatca attacttgat gtatgtacgg ggatcgctgc 360
aggactacga tgactggggc gcgcttgctg gtgatgaggg gtggtcagct gcaaacaatga 420
aggcgatatat gcgcaaacaat caggctcgta atacccttgc aaatccatcc tatgagatat 480
ccctaacact cccctttctta gaccctagaa ccggtcaatc cagagtccaa ggcggcagca 540
tctcccatcg cccctgagca ccacggtacg accggcccca ttcgaacgag cttcaatgag 600
tcaaacctgc ccatcgaaac cgactttgtc aaggcttgcg ccgagacggc gaacttgcca 660
aacatgccta ttgacgcttg gagcggagaa ccatatcggg tctaccatac cctgggcgct 720
gtcgcccgta cgggtccgaa ccgctggaaa cgaagctact cctggatcga gtattacgaa 780
gcgaacagggt tgcggccaaa tctcaaactt ttctgtgaag cgcgtgttaa caaagacatt 840
ctcaacggta ctagggtctac cggcgtcagt ataacattcc gaggacagga gtacaccgtc 900
tatgcaagat gcgaggtcat cgtttttggc gggaccatcc agtccctca gattctggag 960
ctatccggca ttggcgaccc agaaggtctg gctgcctccg gcgtccagag tatgcttgag 1020
aaccctgctg atcgggtgcta acgtacagga ccacagtgtc agtctgaaaa gactgcacat 1080
gcaaccagtg tggtgaccag cgacacactg agccagggtc cttaatcgga gctgaacact 1140
gaataattcg cagatcccga caggccattt agttaatggg acccacgggt ttaaaccgaa 1200
agagatcttt aaacgcgttt ttgctgattg ccagatcct ggttcagcca gtgggctcca 1260
gaaagaattg atagtatttt tataaaagga acttgattt agtttttctt ctctggaaag 1320
aagttgactc ctttttttcc cccaataaac tttttttcgc ttttttcta cgttttttta 1380
tagggggatt tttttttttg cttcttggtt tatttacaat tatatttttc tctatataat 1440
aaaaattttt atattttttt ttttttataa aaaactcttt tttttcttt 1489

<210> 2034
<211> 985
<212> DNA
<213> Aspergillus nidulans

<400> 2034

ctatcagaaa aaaagctatt gtatgtgtat cgcagccgat gaaagaaata ctggccttgg 60
gtgttcttga accactacac agctggacat gtcttggcgc cagcggttgaa ggcggcgaga 120
ttctccccga ctgggggtca acctctttac ttctggagca tccccagct gttcttcggc 180
ccaaattgaa cggtcagggt accgttttat ttatgccaat gcatatcaaa cattaagac 240
aattattgat atacaaggcg acaatgcatg cttgcttctg acagccgaaa cgtgcgcaaa 300
gaatcaccog gtttcgaatc tcatttccca tccgaccttc gcagcaaata ttactgttac 360
tactggcaaa gagagcaata tggacaaccg tacatttgtc tccgattctc tcttcgctt 420
ggcgaacgog tggatccta ctgtcgtcga cttcatctc gccaccgca catccgcaa 480
atcgtcctct tgcgtccaag ataagatagc accttttctg gatgcagggt cagaagaggt 540
tagctcattt tgttcggaac tctataaacg gggtgggaag tctgaaacga gcgcaattac 600
taatgctggg accgggagcg ggaatcgaga tgggaaaaca gttgcggcgg ggacagagaa 660
gaagaaatat cgccttctgg atatggatga ggtcgattat gaggggtgaa gtgggactgg 720
gagttcgcta gggcctagga gtgttgagac cgagaggaaa gacaggggga ggaggcgca 780
cgacaagagt cgggatggag atgggaatag taagagtcac agtgatcgtt gggataagaa 840
cgagaatcgg aagaggggaac gcgaaaatag ccgcgaccgg cgtcgatcga agaagttaag 900
acggcgcgac gttgacgact tcgaagatag gtggggcgat gaggagattc tggaggagga 960
agagcaggat gttgaagggg agttt 985

<210> 2035

<211> 3352

<212> DNA

<213> *Aspergillus nidulans*

<400> 2035

atcacatacc actcacaccg ttgcgctca agacaacgca aaatacgtcg aaattgcttc 60
caataacgcc atcatgcata tcttcccaat catgaaggag tgttggaagg atccaatatc 120
aaaacgcaca aaaaaaatac gaccgccata atccaacca gacgccacct gccctgtaa 180
ggatatcaac aaagaagcaa aaaaagcaac catcgtaaata cacgtaaaca tgcgtcatga 240
gtcgtatcag cgatgtgtaa gcaccagtgg tcttctcat atatccatac gaagcgccga 300

tcatgcagca acggaataaa aatcatacat ttcaagtcgc aacatgatga attggcacca 360
 aaatcagtgt ttggcccatc agtcgccctg agtcatacgc gggccgagga acttgacagg 420
 gctggttgtg agtttcccct atctgttcca agcaagccca gccgggtggc gggatctcca 480
 ggactagaac gaggtggtga cgacgacgag gaagacgatg agcatgaagg aagtttgaa 540
 cattcaacgc tgcattctgg gtccggtgag aagaagttgc tctcacgata cgaagcgaaa 600
 gatggcgtgg ttccgcgctc actgctcgaa acaagctcca tccctctagg ttcaaacca 660
 cgggggtgta cccacgtcca gtcaaggctc tctttcaatt gtgtggactc gaagctatga 720
 gatagcgatc tcccacactt ggctagactt ggtcggccca tccggcttgc agcccccttc 780
 ctctctcaa tctcgtgatt ataggaacct ctctcttgc gacctcggtc tgtgctgccg 840
 tcgtgtgaat gctggaaaat ggcgttcgcc atgagttggt cctggctatg gctcaaagcg 900
 accctagcac gcattttctg aatagcagag tccaatgcta actcgattgc gcaatgattc 960
 cggatgcgtg caagctttgg ccatgtcgcg cgctctccac agaggcacgc ctttagcata 1020
 aaatcagtgg tggggttctt caataatcga ggaaagtgcg cataatgaat ctcatagata 1080
 tgttgatgtc ttcatagtac ttctgattca taatcgaaat tgacttgggtg aaggaattcg 1140
 gaaaaacgcc aagctccgtc aatactgcca tccgatgcat aatctctcc tttgcaagat 1200
 gtgaaacagt atggaaaagt cgagagaatc ttgacgtcgg gaccgccaca ctcttcggct 1260
 catcggcttt gggaagaaat ggtacaatgt gcgggttgac ttgtgataca ataaagtgg 1320
 tgacgttgaa catttctgac aagcgattca taggcagatc tccgtcaacg gagccgtcta 1380
 tatattgctt gtgaaggtea ttccacggaa caggttcccc tgtcagcggg tctttggcca 1440
 tcaaggtaaa gggcgaaaat actaccggca ccgaacatga aacggcccta ggcaatggt 1500
 agtatggctc tcaaacaact ccgcagttca cgtacacagc agaccaaata aatacgtgg 1560
 gggctgtaat gtagtttaga agctttggta gtcgtacac cccagcgcta gatacgcaaa 1620
 tgttgagaat tctccgggtt cggttatacg cctcctgaaa ggtgatgtcg cctagccaat 1680
 ttctcataac tttggccagg tgtgtgatat ccaaaaacgc tccatgcttg aggaaccgg 1740
 cggttttttg caggatgttt tctcgcgat cgtcttcac aaacacagaa aagtcaccgt 1800
 agggaaaaga agctaacaac gcaggaagct catcctcgg acgagtgcaa aatactgcgc 1860
 agacgatact gccagcagag gcgccggaga tgatgcgggg cagaagattc gccatccaaa 1920

gcgacttcaa aaccccaatg tggttcatcc caaaagtagc tccacctgag aagaggagcg 1980
 cgcttcgccc aaaagcctgt ctgcagcta gaagctggtc tagtatatac ctgcactcgg 2040
 ccacatcaca ccgattgtct cccgacacat ccactagaga cgatattgtt tggacggcgg 2100
 tcgttatata ttgatctatt aaattcttgg taccagaatg ggtgtgtttg tacagagagg 2160
 cattgtcat gctcccaaa tcacgactca acgaggtccg aatcaggtat agcatgcgac 2220
 tgacatcaca gctcagacga gccgcttcta gctgctcgag gcggctctgt acgagatggg 2280
 ggtcatactc gtcgcattca aaagtcgcct tccaggcggt attatcctcg agtttatcaa 2340
 gttcacaggc acattctttc cattcttcgg cggtacacgc ctagcaacgc aaacgaatta 2400
 gcgcgggggtg tggtagtgta acgcaatagg cacgaaacag actcacatta cgcatgcgca 2460
 agtatagcac ttgcttgcca tctctgtct tcaagtggag ttcctcctca aaccctcgct 2520
 tcttctgga tacgatatct tcggagctgc aaatgctgcc ggcccacgag agggatcctc 2580
 tcacaacaga agccagcgaa ggcacgggat ccaaggtgag ccgcggacgg tggccatttt 2640
 gaggtgcac tttggttaaca gtgtggctgt tcgagtgttt acccttacta tgccacgtcg 2700
 aggttatcag tggggagtcg ggaataggcg acatgacagg ttcaagaggg atagtgccag 2760
 ccggatatcc attcggtgga ggaagtagct gagtgtgaaa gtgtcgactt tctagccgaa 2820
 ggggctgctg taattaaaat tataagaaat ggccgtcaag catgggacga gtgagatttg 2880
 aatgctgggg aagagaaaac ctggggtcag gcgaacctgg aaaagagtca cgagcgatcg 2940
 ccgtgcaggg agctggcgca gcattcagtc cgtagcctta ccgcttacgc tgctcaccgt 3000
 taagggtccc aaggctggtt actggccaca accccacgac cgcctctctt ggttgtgacg 3060
 tctggggaag acagtcttca gtggtttcta gtcgtgcaat ttctcgaaaa ttctgcttga 3120
 agttccccac agttgtcaca atgtcaattt tctcagacc gatgtcactt ttgtttattt 3180
 caacatcccc tgggactcac cttgggggtt atggatgata ccctactcgc actaaaagta 3240
 gcaacgttcc accttcgctt gattttgtcc ttgcaaaggc aatttttatg gactgggcgt 3300
 tatttccgag ctttttagaa atctaatacc aaatcatggg ggggaaaagt at 3352

<210> 2036
 <211> 2711
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 2036

atltccgaat ccagcggatt gctgtgactg accaacagcc tgggacgaag ggtgggataa 60
gcactgcata cctgcactgc tccacttcca gtatccaatc atcgacctga acggatcttt 120
tgatctcggt tagggcggag aaagggaaaa gaaaagcata gagaaagcat gggcgagcga 180
tttggggcga tgtggtcagc gaacaacact aggtttgttt acttttagcg gctgcccctc 240
ctcccagatg atccttttcta gaagacgaat agcagagagg cagcagatat taattctctt 300
ctgaagcgag acgggaaatt aatccttgag tggcaaacad aaggctctga ctactgctc 360
gcattggcttg acgagaagag cggctacgtc gccttcagg attattatcc gaagagtctg 420
cctctcaccg aattgtgtct aaatgtgtta aagtgaatgc agaattctaca gagtatacga 480
ttagcgagac ttcaaggatc gtcgaagctc gtgagtagca atatgaatca ccaatgaaga 540
tgaaagattg ggcattgttt accgttagtt tgctcctctg ctgtccctcc aagccttgca 600
ccgtccttcg tttcttcttt gagctgctgg acacatcttg aggattaggt tgcttggtt 660
gatggagtcc tactgagggc actgtatata ctctcgggtg ttaacgggat gaagaaattt 720
ttcgaatctt caccgagagg ccgccttcaa tcatgtctta gttgtgccgt atgatttgta 780
ggcgtccacc attatcattg attatttaga cactgcttgc tcagggtgaag ccatgcagat 840
ttaacgatcc tagtaagacg actaccataa gcgtcggggg gtctgtaaaa taaagtggaa 900
atacgaatac cagctccaat tgttccccct agcgcctctt tttgcattgc tttctgcccc 960
accggcttgg atcttgacgt aggagtaacc taatcttctt gttaaagggt tgaaaagcca 1020
ctatcttgat tggctggcgg tttcttatct ctacactgct ccccggttg gagactcca 1080
tggacggcct cccgtgtcc tcatgtctc atccgacgt atgcagaacc acaactgct 1140
gaacggcagg gaataacccc acgagtctac tctgaatata tttaaaaggc gtgaattagt 1200
ctgtacaatt gggtagggg cggatgcaga tctggaagg agagctgtac aacagcaaatt 1260
ctgacttttg atactggtct tgcattgtga gttttgctga agttatgctg acctagttcc 1320
tggttcccag gtactccaaa gtagcgtggg ggcggacatt tttcgtcca ggagcggaag 1380
ccgccgaaaa cagctctgtc ctgctggtgt gccaacgtag tatgattcac ttagagcgca 1440
aagggtctgt ctgcttcttt gctgtgcatt gattatcttt tctgaaaag ccaagtcgtc 1500
tactccgcgc gtccactgca gttctccaga gtaggcatta tacttaagca aacggaaatt 1560

cgccacggat cattgtcttg tgcaccgtgg tcataattcc ttctcgatcc ccaccattgt 1620
 atttttccca gttactcctg tacaggggtg ccgatcatccc gtgatctcaa ttgaaacatc 1680
 ctccggcagt gtatgggtga tactccataa tacgataccg aaactcggag accagacgaa 1740
 ttccccggac ctctttctcc cgtgctcctc ccgccgccca ctgccactg cccgtagccc 1800
 tgtccagtca cttttttccc ttactacgc agggccccctc cccctcaccc tgctcttatt 1860
 tctacggttc cccccatcat cttccacctt cttttccctt tctctcactt tactacatct 1920
 tcccggagct cgacgttggg caaatatcat tgcaaactct aagctattgc ccaccgtccg 1980
 ccattgacga catagcttta atctacccat cagcactact gccccgcaga aacacaacag 2040
 cggcggccga tcccaaaatc catcagcaat cccccggttt ctgtcattcc attctctgtc 2100
 ggccaccggc ggaagaatgg gtctgaactt ggaggaaatc tatggccaaa ctatagttga 2160
 ggagcagcgc ccgaatgagt attcgggaata tcagccgaag aagggttatg gctgggcca 2220
 cactctgccc gagcggcaag gtctctatga cccggaatat gagaaggacg cttgcggtgt 2280
 aggttttget gcgtaagttg atttctacc tgcaaccggt ctgagaaagc aggtccta 2340
 ctgtgctttt ctgcagaaat attaaaggca aggttagcca taagatcggt agcgatgggt 2400
 agtccctaag agcagaaatg cgggagatta tctgtgaca tggcgctcctt tacagcccgg 2460
 aatctgtctt gtaacatgac gcaccgaggt gcggttggtt cggatgcgcg agacggtgat 2520
 ggtgccggtg taatgaccag tatccctcac aagttcttca ttaaaaactt tgcgcgcgaa 2580
 gtgggtgtgg atcttcccc cttggccagt atgtgtcggg taacttttct caaacccgac 2640
 gaggaggctt tgaaggagcc atcaagcagt ttgaggagac nccacgtcgc ttggactgcg 2700
 cgtacttggg t 2711

<210> 2037
 <211> 1542
 <212> DNA
 <213> Aspergillus nidulans

<400> 2037

aaccgctcct tgaccatgtg ttgttttgcg gtcgatagcc ggctctggaa gacggaagtt 60
 ctctctcatt tcggcttcca cgtaagcaga agcaagcttg aatcgtctat cgttgactt 120
 atcgtaaata gctgaatgat gcttgccggg catctcacag cactcaacaa tgagagagac 180

gagcgggtat agctgagagt aagtataacc ggcgtaatgc acatgagcag gagactaatg 240
aatcgtcagt cacgtatata taaacagatc aaagaaaaca taccaggtg cttttcttga 300
gcattaacct cgccaagcaa tgagcgccgg cagcaaggaa actagcagga ctaccaacga 360
atcgtctatc catgatagta acctccagga aatatttcgc aagggggcca ggtttcgagg 420
tagtaatggt cagctttgct gattatgcga aggaagctca taggtcctga aaaccaagc 480
tcgaactgga gcatgcttag catgaaccgc tctgctttca gaatttcatc gacagtgtaa 540
ccgccgtcaa ccatgtaaac aatctcctgg acagacggac agttgatctc ttcataattc 600
gcggcgataa aaatagcagt cgcaccaaca agctgcagct tgccaagcga aacaatcttg 660
catgagagga aacggtcgat atagttgacg caaagaaaaa gagtttcagg gagcagtgag 720
aaccgatggt ggacctgcac aagccagtcc atgagaacag accgatgga ccattggatc 780
tcggcttggt tgtccatata atgtgcattt ggcagcatct tgatctacaa agatattgtg 840
agcttagccc cgtttgatag ttgcggatat ctgtacatac ctcttgctct ctgatgtact 900
cgaaaatctc ctgctgtat tcagccacca tacttgtatc acaatagtcg tctcgtatat 960
cttcacgggt ggggtagcc tcgactatct gctttgcgag agccagctca cgtttgacct 1020
gctggttata tctgggaaac agtagggtcg ttgctccgcc ggtggtattc tcgctacggg 1080
agcggtatga tcgggcagtg atatagtcgt ctctcctggt ctctcctatcgc tcatcgtccc 1140
agtattcttc aggttccgac tgatgaggta agtcatcctg tgaagcacgg gagactgtgg 1200
tggatttgca agtgaccctc gagctaatac cgggtccggt ggagtcgct gcgatatgag 1260
cttcgccggt ttgcttcggc ataggttgca ctttgcaatc gtcgtcctca agatccggga 1320
actccttctc gtcttcttcg gctccaggct gggacaacag aacctcgagt ttgcacattt 1380
cgctctctaa tttttcattc aaagagacag taccctccac tttgccgtcc ttctgcagat 1440
gttcccccaa gcttggtttt gaatggcct tcatgttgcc ttccttaggt tcgggtttcg 1500
attccttgga tgtaagttct ttgctctccg tcaatggttc ta 1542

<210> 2038
<211> 3198
<212> DNA
<213> *Aspergillus nidulans*
<400> 2038

ctctcaegtc cctcttccac gccctctcaa acatttcaact ggcttacaag tgtgacacaa 60
taacgtctgt cgccttcaac cagactgaga cgtccgtact tgcgtctacc ggcattgacc 120
gtccattat cctatatgac ctgcgcacat cttcgctttt gtctaagctc gttctgaaac 180
tagcatctaa cgcctgtctct tggaaaccaa tggaaagcctt caactttgct gttgcaaagt 240
aagaccacaa tgtttacatg ttcgacatga gaaagatgaa ccgtgccctg aacgtttctaa 300
aggaccatgt tgctgcggtt atggatgtgg acttcagccc aacaggcgag gagctcgta 360
ccgcatcata tgaccggacg atccgtcttt ggaaccgggc tactgggtcac tctcgcgata 420
tctatcacac gcagagaatg caacggtagg gcacttaaac ttcacacttt tcttaaacctc 480
tgtgactaac ctattcaaag cgtcttttcc gccaaagttta ctctgataa caatacgtc 540
ctatccggtt cagacgatgg gaacattcga ttatggcggtg ccaatgcctc tgaccgcagt 600
ggaatcaaga gcgcccgcga gaggacgaag ctagagtacg atcaagctct tgtccagagg 660
tatgcgcata tgccggagat caaacggatc aaacgccagc gtcacgtgcc gcggactatt 720
aagaaggctc gtgagatcaa gaatgaagag cttgcggtta tcaagaggcg cgaggagaat 780
attcgcaagc atgctaagaa gactactttg cgcgctagac agagcgagcg tgagaagatg 840
attctggctc aggagaaata gatgcggacg ctacatcccg ccgcgattgg caagctggaa 900
tgtgcctagg cgcggcagtc aagacgtgac taagcaagaa gctcattcca tatgcttagc 960
atacatcgcg agctcatgcg ttcacaagat gtctattttc tcttgactgt tggtttggga 1020
tttccaggct gctttgtttg agacgacgct tgtgtgtacgg cgaagtcaat accggtcaaa 1080
cgtcgggcga tctgctggag acctgctggc agagccgcat atatgtcgat aaacatggcg 1140
tatgccggca atctgataac accgcttcta ccattgtcta tcagggagac gatcttttga 1200
gcaacacgaa tgggttcgag gacaggtgcg aaaaaggagt ttggcgtttt gatgaacatg 1260
aacagtggcg tagatatctg gccgttctcg accagcacca ttttcacttt atccgcgttt 1320
cctgataccc ggagttcagc ctccaaggcg cgatgcaggg cgctgaggcc agccttgctt 1380
gctgagtagt ctgcgagacc agcggcgcac agctgtccaa ggaccgagct cacgttcacg 1440
atggtgcctc cgttctcgcg ggacagcata tgtgggagga acacttggca ggtgtggaag 1500
accgctagaa gattcgtctg tatggtcttt tggaaatgctt cagcagagag tgacaggagc 1560
ggctggccgt taattcgggt cgctgcacag ttcacaagca ccgttggcgt gccaactag 1620

acatcttata gtttagcgaag caaataaaaa gtactacaac agcaaccact aggtcgtact 1680
 acgggggcgta gtcaaaatca agcaagtcgg aagagaaaca tacatcttct ttgattctcc 1740
 gcgccacttc ctcaacttca cccctcaccg taatatcaca cttataatac tcaacccctc 1800
 cgacgtcttc ccagcctttc acatccttct gctccgcaat atccaacact gcaacgctca 1860
 cgccacgcaa accatagatt tgcgcaatca atctcccgac cccgcttgcc ccgcccgtaa 1920
 tcacgacaac ttcgtcgtc agatcgacct gtctaggcac cccatatgca atctgatcgt 1980
 ttatcatgaa cgcgacattg agaatagtca aaaatgtggc gtaggcggtc gcggtcagaa 2040
 acgctgggtg cgtatagggg gtagcctggg cgcgaggga gaggacgatt atccaggcga 2100
 tgaaggggtg gaaaaccgag cggttcagga ccgttacgaa taggtcgact gtgaggtgct 2160
 cgtgccattg ttttggcgtg gttggattga gggagggaga gggggtagtg aggatacgtt 2220
 gaggtgccat tctactgtat tttctcctgg acacgtttat agcgattgtc cgaagcagag 2280
 gttgttcgag taacagaata acctttttta ccttttcttg ttcagagttg ggatccagct 2340
 atgtcgacga gaatcacatt atttaggtgg gaggaaggga ccgagattcg agcttctggt 2400
 tggctatgaa gaataattag cgtagaacga ccgacatcaa ttttgatata tactggctct 2460
 ctggaataca aggaatgact tgctcaattg cgagatggag tacggttgat attgttcgct 2520
 tagggatttc cagtcttggt ttagaattat atattttgga ggtgtctccg caccacccc 2580
 tcgtactcca agatgctaag ataagggaaa taaattatct ttaagatgga tttctctaaa 2640
 ccaacaaatc actgaaaagt tatggacccg tatcttcaac tcatataaga aactatgccc 2700
 cctcgacttg gatatcctgt gaagacaatt cacagcgta agcttgccgc aaccaatcca 2760
 gaaaccacct gggatatacg cattggatac ctaccagact cccagaggg agtcatatcc 2820
 tccataaccc cagattactc gagcacctca tctcgtccat tatcacctct tgcgctgccc 2880
 gccctcgta acccccatat ccattctgac aaagcctatg ttcacagcac gtctctctac 2940
 accgatctct tcccctcaac cggttcattc caagaagccc tgaccctcac aagcacggcg 3000
 aaagcctcat ttacagggcc cgacctcta caacgcggcg aatggctcct tgccgaatcc 3060
 gtcgctccg gtgtaacagc catgcgcgcc tttgtcgagg tcgaccagc agtccagcat 3120
 gcctgtcttg acgtgggct agacctgaag cgaaaatggc aagaggcatg cgaaatccag 3180
 ctcgtgtgct ttgcacag 3198

<210> 2039
 <211> 839
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2039

```

tttaatctag catagcacag atcccgctct cgtcagggttc cagcgtcatc tgctagatca   60
gcagagtagc atacttttatg tacagcgcac cataggagtc atccttcccg agtgtcctca  120
tagtatgcc a gatcgcacg gcttccatct ccttaccagt tttggggacg aacttgggat  180
acagcagcat agggaaaatt ccgcccgtaaa gttgggtgtc gatctgaatc catttgatgg  240
tggtgttcag agtctggtta gccttcgatt ccttgaactt gacctcgata tcacggaacg  300
tcatgtaaag taactccttc attttctggt tgattaagga gataccgata ccaccaaggt  360
gaagctgagc tttgaaattg acatcagagt caaatctctt gacttcgaag ccagtattga  420
tgctcgtttg cgagggtttgt gatctttgct gccgatatat actctttgat gctttgaagt  480
tcgataaaac cagagctctgc gtcggaccat cagcaacaat attgatgtcg atgatcttct  540
gcgcttctcc aggttgactg ggaggaatac gcatagggtat caagtttcca atctcgggtca  600
gcctaataccg ccgttctttg cccttgcaag ccaacacgag agacttggtc tttgtcgccg  660
ggaagtccca ggcataatggc atgatgctgc gaggaggtag acggtagcgg atcgggtcgcc  720
aggtatttgt ccggtcttcc tcgtcatctt ccaagttcgg gttctgcaaa aattagtaaa  780
tgagactgat agaaagccag atgcccggac aagataacat accgtgttga taaaacatg   839

```

<210> 2040
 <211> 2701
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2040

```

aaacagagct agcagcttgg ctcatagtag ttggatccta tcgagcgatc ttctgaaatt   60
ggcgcagaat agtcatagct gctcgcagtg acagggtgccg cgataccgcc ccagtttgtt  120
cctccgaaca tcatgtatag actcatcgca gatacccgtt ggccgatgtt ccatctgtag  180
aacagattcg caaaatcggc ccagtatcc tcagtgcacc ctcttcagg tccgtccac  240
gggttataag atccgccttg aaactcgggc atgaagaacg gcatagtcgg ttggacttcc  300

```

tgaaaatagt catagtagtc tagcacctta tatggcacat attcaccgtt tgttccagtg 360
 catacactga catcgcagct ccagcactga tccgtcagaa atgttttagca atatagatat 420
 aagccactta cagaagggta cgaatccaag cccaccgtat caagattgcc tccagcatct 480
 gaccagtcac tgccccagga ttttgtgttc atattagggg cgttcccggg caatggaaca 540
 gtgataccat tctcagcagc cgaggcttgt agcaattcca tgtaagcaat agctgtctga 600
 ttaggggttcc tgtcacgcgg atccccaatc cattgctgtc cgtattcgtt ctcgatctgg 660
 tagcaaagtg tataatgacc atcggtaacc tgatacttgc tgggtgatttc ggacacttcc 720
 gcaaaatacg gttcccaggc cgctgtatat ctgggggtcgt catttctcgt cgagccatat 780
 gcgcctgtcg taagccagag tgggaaccct ccagcgtcgg cttcggcgtt gacatatggc 840
 ccagggcgca cgatgatgta cattccaagc tcccttgcca agtcatatat cggggtgatg 900
 tcacgagcac cagtcgagaa atcaacagtc tggttattgg gtgcgtggta agcccagcta 960
 gagtagaacg caaagccagt gaatccaatc gccttgattt tctccaatat gtcccgccat 1020
 agtgcgtggga ctgggatacg ccagtagtgg aactcccccg agaacaggaa tatccgctgc 1080
 ccgttgatgt aaaagctgta atgggtcccat tgtacaactt tgctcagccc attgtcatgt 1140
 ataggccatt cggattggga actattctga gctgcagtca gaacatggag gcttcccaga 1200
 aggaagagaa gcaaccagaa ggccgtcgcc atggccaaag actcggacaa caaagtgtgg 1260
 gctgtctacc gtgcatggta cctggctgaa gctcggccca atttatgttc tgggacttgg 1320
 tgaagcgggt tgagcatcgc ttagacctta cgaccaagcc tccgcatact agagtagggg 1380
 ggacgcaata caagacgac gtcagttcca gaggccaagt ggagtcgaca atcgagccat 1440
 gttaccttct gtggtcaa atccatgctgg atgaagcata gatgtgggga caatgtagat 1500
 tttcctccat tcacctggca ggtcggtatg gtttctcccg tcagccggca ggagactgag 1560
 aatagcagcc gagcaggggg tttatccaga attatggagc gtgtgaatta ggagattgtc 1620
 cgatggagag gatgaggggt tcatcttctt gccgacaagt cacatgatgc agcgccttca 1680
 tacaaggtag tactgtacga tggaggcaag gagtagtggc ctgtgggtcca attaattgat 1740
 ttctatcgca ttgagaacga agagatcatc aactatgcgt tctgacaggc attatcattt 1800
 tctaccccag gccaaacttct gttctgattg acctagcggc acatacagtt tccgctcgat 1860
 cgagattaga gaacacatgt tgagagcctg gtctgtgatc ctcgtagttc tattaataag 1920

atacatcctt ttatcgctg gaacacggcc cagtagtaga gacaccgtcg aaaacaccat 1980
 gtaaataatgt acagagcaga aaacaaccgc gaaagacata accgactcgc ttttatacag 2040
 gattcacagg gcatgcagac gtaaaacggt gaatcatgct gccggggggc catgcgcgcc 2100
 attgcgcgac gggccgaccg gatcccaact cgacctctat agggctctcca acacactcct 2160
 gaagctctta gatgaaatac aggaatatgt caagatgggt gtcgttgggg tcgagccgga 2220
 taggatatgg ataggggggg tggataaaga tatgccactc taacctccta attcaccaca 2280
 ctacttgtag ggccaatttc acttcctgct tctcgcaatt catggttggc caaatgaatt 2340
 aatgttccca acttagttct agttgccac aactccatag ggattacagg tctttacttc 2400
 agcaccgcgc ccagcccttt gcgtttcttc ttagctcatt ctctcgccc cttttccatc 2460
 aggcacaccg gaaaaccctt gatctggctc ttgcttacta tcagtcgcac gcccctttat 2520
 tgtcaactct acatgcctt caaatgggtc actttacgat agaattcact ccctggctac 2580
 gaatacacc atacttgcca ttggcctcct cttcacaggt ccaactgggt tccccgataa 2640
 cttacccgc tcctttatac acagctttaa tctctatagc tctccaaacc ctcttatcga 2700
 t 2701

<210> 2041
 <211> 2969
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2041

cgccccacga tcttcgcgag atcattatag aacttcgctc cgacttcgat atttgaaatg 60
 atctccttat acttcaggta cccgttctcc agctcctgga gcgccttctc actgcacctt 120
 tgtagaagca tcaccgctat gggcgcgcgt aaacgcacga ttcgcgtccc gcacctgcgc 180
 gacgatctga tcctgatcgt gcatctcctg cgcaaccata tctagatcga cgtcgtaatc 240
 gcgcagttgt gattcaaaga ggtcctcgaa ttgactagcc tggatagcct gcattggaac 300
 tcgcgtctta aacgtgctgc ctcgcggaca agtgcagaac tgatgtcgtc gcgcgcgcgt 360
 ttgtccttga cggcctgagc cttgcgcttt cgccggcttt cgagtcgatt tacttcgctg 420
 atgcagctgc ggagccgact cacctcgcgt tcgacttcag gcggtatcgt tgcgcgtcga 480
 ctacttggga caaaagcctc aaggctcgca ttcgtgccgg tcaaaacgcg aaagacagct 540

tccgagtcgt gcagtttctg ctcaaccagg ttgtcactgc tctgcgctga ggtgaagtag 600
 ccgtcgattt cccgggcggt ggtgtagagt ttaggagcgg cggcttcaga ggcctcgcgc 660
 gtccagcgggt cggtgccaaa tttccggcgc gaagcgtcgt cctcagcttt ttcagcggcg 720
 aggagttcca cgccttcggt atagacggcg cggtcgttgg atttgacttt ggcgatgtcg 780
 agaaggggact tgcggaggcg gttgaggccg tcttggtgac gcatttcttc ggcattgggcg 840
 accagtgatg gcggcaggcc caggggcttc tcaagggctt gcagcgagcc ggggagattg 900
 agcgatgata gtagactggc ctgttagcat aaatagagaa tgtaaaagga tgtgacatac 960
 tcgcgtagct tgtccgtcat gttctccaat tcgcgataa tccgctcatt gacaagacgg 1020
 tctctcctgt ccgagtaa at gtcgcgcga atgtgcacgg catacgggac gagcttcgaa 1080
 aagagcgggt gtcccaacgg ccctttttcc cccagcatcg agattgcgta cgggacctgc 1140
 gacggcgctt tagccgcaac catacacgcc cgatcaataa gcttgagctc cgacttgggc 1200
 ggcacgggggt tgagataaat catatcggtt tccttctcgg cgcgcttcaa atcctccgtt 1260
 actctattct ttaaccctg caaatcaccc agcacctgc gattgatcca ccggctctct 1320
 ttgagcgctt cattcacaca agccacagcg tcccgtaacc gtgccacctc ctctccatac 1380
 ttgcgcttct ccaggcaatc cagcgactgg cgatactgcg ctgcagctgc aaaatgatgc 1440
 tgtttcgccg tcatatggtg gatccattcg gggctgatcg cattcgactt gacggcgtga 1500
 tcgcaagcat cgccataaaa gtccgacact tggcccgga gtcgtgcaat tgatgcatcc 1560
 tttagcccat ccacacggc cttctgccag aaacattcct gagcttgtgc gaggagcagc 1620
 tcttccaggg ttcggagggt catctcgtcc atgtcttccg gcggggcgga gcgcatgtca 1680
 gggacgatgt ctgttcggag gtgtgctagg ataccggctg cctggcagaa atagttgcat 1740
 gcttgcttga gaccgtcggg tgttggtcgg tttacggcga aggcgagctg ggagtagagt 1800
 gcggcgagggt tgaagatgac gtttgccagc tcgaagcgga tgttatcctg tgagactgtc 1860
 gtacattagc caacatccta gcagattcgc tgtgagaaac gtcgtacctg gccgacttgt 1920
 gttgaaccca aaagcaggat accaggggaa ctcgaccccg acctacgacc gtcaactcag 1980
 cccggaatat ctatgatatt attgatacgt acatcaactg gaaactttcc cccaagccat 2040
 ttcagttgcg cggcgtaagt aaccagccgg ctgattccgc tgacatgtgg ttctgcacg 2100
 tttatggcct catttcgtaa ccgatcgata atgagcaagt catctgcaaa catgtcaggg 2160

cgctggatcat atttgggtgga aatgtatttg gtcaaggcgg tcgagagggga gacagtgtgc 2220
 gagcggcgga aggggaatctg gaggatattt ctgtttctgt caataggtga tatttttgca 2280
 aagtactgga cgtacgtacg aggccatttt ggcaatgcgc ggtgttgccg ttggatggag 2340
 cgattgttgt tgacgggatg ctaaaaactg tcccgccgac gacccacagg caacgtaggc 2400
 gggcaaatga cgtggtagtg ccttaggcag ctatctgtat ttactacttc ggaaaaaatt 2460
 ataatacatg tgcatttaac aggtcggtat ttattgttat gttcagataa tacaatactc 2520
 ctggactcca gtcgatggga ccgataatca tcgggtctagc tcgttgatgc gcactttaat 2580
 atattcgaag atgctgagca gaatcatgtt atttactcca gtgcgggatca gaataatcga 2640
 cagaccctta tacatgcttg atcgtgccac cgcagcggaa gcctcgccga cttccttcga 2700
 tttgcctaaa agcacacttt gcgcgcgcgt tttgcgagta tcgaggggggt aagtctgcga 2760
 ctgtcagtac ggtaatagct agctgggggt gtctagacgt acgcagaacc acggcacagt 2820
 actgcagatt gctccagcaa tcatgggggc accgaacgga gacttgctcg gtcccagctc 2880
 tctggcagca acctgcttga ctatcacata gactgcaaag tacaggccag atccaactgt 2940
 gtcgcgcggg cgatcaggcc ataacagta 2969

<210> 2042
 <211> 2292
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2042

ccaactcacc aagtacaagg cccctacaag ctcaaggaag acaagtgtcg tcggtactgc 60
 aacaaagacc tgctttcttg cctcagagta acgagtctct aagacgttca aagatgaagt 120
 tggccaatac tggcgagcgt gcttcaaaaa gtgtgaaagg aagaacggta aaatagagag 180
 aagagcagga aagaaactca gggtagcggc agatagtcta cctaatacca tgagtgcatt 240
 tcctagaaac ctgctcagat caccgcgacg cgtatcgagg caaccttacc agcattgaaa 300
 agggacacag tgccgggatg acgataacag tcaacgacta atcgtgctcg aatatagaaa 360
 gagcatctga tagatgccac tccccgattc tctaccacac ttacctactc ttatacgccg 420
 gcatggcctg aacaacacct gcaatgagat aaaccagcta ttgaagcagc ccagtgaaga 480
 caaagaaacg tttcctagcg aaaaagacta gctgaatgga ccaactaagc cgaaaagagg 540

aatacagagg atgcgtactt tgactataga tggattctag tggagaaaag atccctacta 600
acaattccat tcctatctgt aggtagcaat tcgaagatgc gcgcaagaca aggtattaat 660
gaaaacttta agagaccaga gaagatacac aaaatggaaa cctggttaag actatctcac 720
atacatacc taccaccaa ctaggtagac aaatcgattt ttatacgaca cagaatttat 780
aacaagcaag cagcgctaaa tgtctattca agagggatac cctcgactc gctgtatccg 840
agggcgaggt tcatgttttc tgtacgccgt atgttagtag ggcctaaggc ggatggggat 900
atgtgcgggg acttacgcag gcattgagtg gcagcacctt tgagaagggt gtcaatgggtg 960
gcgcaaacga cgacacggtt ctcttggag tggacggcaa agccaccgac ttcgacgccg 1020
tgacgaccag caatgttctt gacaaccgga ggctcaccga cgatcttcac aagcttctcg 1080
ccagcgtaac ggtcctggta gatgttgca atgtcacgag atgacattgt ctcttcaga 1140
ggaatgttga tggtaggtg gatgccctgg aaccaaacag caacgtgggg catgaaggca 1200
atgggagtac cgagctgaga actaatttcc cgctcgtaga tgtggtcggt caaggagtaa 1260
gggatgatgt tgtagtaag gttctggacg tcgttcttgg ggctaggctt ggtaccagct 1320
ccagagtaac cggaaacgcc aaaaacggtg ggttgtccac cgaggtgagg aacgatagga 1380
gcaatggcaa cttgggttcc ggtggcatag caaccagggt tggcgatgcg agttgcctgg 1440
gcgatcttag agcggctgac cagctcaggg agaccgtagg ctgagttctc atcaaagcgg 1500
tagtcggcgc tcaggtcgat gatcacgtta ccatccttgg caccctggtc aacggcatca 1560
acgaaaggct tgcagacgcc gttagggagg gccataacc agcagtcgac gtcgccgttg 1620
gatgacatgc gcttgacatc ctctgggactc aggttctcgt agatgatctc tcgcttgtcg 1680
taacctgca gcttcttgcc agccagctcg cggaagaga catgacgcaa atccaggtga 1740
gggtgggcgt tgatgaggtt gatcagggcc tgtccagtgt agccacgggc tccgatgagg 1800
gcgactttgg aaggcttagt gttggagttg ttcttctccc caagaggagg gttagggttg 1860
gttgtggcgt aggtgcggac agtctgaacg ggaactgaag ggcgtccgaa acgggcagaa 1920
cgaagggcgt tgcttgacgt ggagaaagta cgcttctgtc cagcagcagc accgaggggc 1980
ttgccgatat tggcagccgc atgagcagcg cgctgaagcc tggactcaag gttgatgtcg 2040
ccgaacatct ggcgaccgtg ctgagtgaat tcctgaacca acagcttcac ctcatcacta 2100
ctctcaactc cgtaccagaa gagaacctcg ccgtctcggc ttagactgcc atcagccttg 2160

tcaaagaacc atgtgagggt ctcgtccccc tccttgacgg tccagacaag cttgggaaag 2220
 tcctttcttga tggcggcgaa aacgttggtcg gccacgtttg ctgaggcagc cagacttagt 2280
 atggtaagggt at 2292

<210> 2043
 <211> 1711
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2043

ttcgacatcc tcagaattgc tctcaactac ggggctagt tccataccgt ttcaaataaa 60
 ggctggacac cctccatca ggcggtttac gtcggcacag gcgcgccaga ccatgaattc 120
 ccccaaatag cagaatatat ccaccttcta gtcagccgtg gtgcggacat taatgcccg 180
 ctgcaatccc ccgcaagcaa cagcgaaacc tcaactccacc ttgccatcac cgccattggt 240
 actcgccccg atttagtaca gctgctaata caatgcggcg ccgatatcaa cgcacctacg 300
 gcagacggga agacgcctct tcatctcgcg gccgaacgag ggcgcgaaatc aattttccga 360
 attctgtacg acgcaggggc cgacatgtcc cttgagggtc ccgatatgtc gaaggctgac 420
 gatgggcacg acgggacagg ggtgggaaga accgcgtatg atattgcgct gagtaaccgc 480
 ttcggtcggc attggttcga gagtgacgga aagcttaagc ctgttgtcaa agagggtgaag 540
 aggaaagaca gtgtggagac acttattgac gaggatgagt ttcattggaga aggtgaaggg 600
 gacagcaacg cagtgatcat cgaagataaa gctggagaag gctccgccac tgaggccggt 660
 gaacgtcccc aggagccatt accctcagac aacgccaccc ccaaccaggt cttcgacccc 720
 cggaaatcag tctcgagaag cgggagcttg agcgggagca tccgctcttc atctgctctc 780
 ggccgcagca tcgcccagca tcccagggtc aactcaatcg ggggcgtatt atcgctgca 840
 tcgtactcag attctgcctc gccatttccg acgctgcaga acattaacca gaagaccggg 900
 agtcgaactt ggaagggaaa caggagcttt gatcgtgaag cttgggggtc gctagagaat 960
 ggagtctccg tctcaagatc tgggtccggg tctgcgtctg tgtctggatc tggggaatgg 1020
 gctgggagtg gggactgcga tgggtgatga gatgttcaaa gtctgaatga gaaacatgag 1080
 cctgtctcgt tcgttcaaaa tgaaacacca tatgtgattg tttgagtacg accgcgtata 1140
 cacggctagg agagggacag gtaagtcatt cgttctagcg agcatggcat ggcatggcgt 1200

cgcttgagtg gtaccttttg ttttcctatc tcaatccgga tttgtcaag tatgcccgg 1260
atgtctgtat atagtatgtt tgttatagcg tggaatgata ccctatgtag tgaatgaatc 1320
aaaagtcgag tgcatatcga tttgcagtaa ccaagtatac atgtatgact tccaacaaca 1380
gaatatatag gtattaatgt cattcggtag cccagttcc tacctaaact gctatttttc 1440
ggcgcctccc acagccccct tccctcacc acgctcctac acgcagaagc caactggaag 1500
aagggtgagt gcaaagatag aacacatcgc tcctgattga cactagacgg ctaagcgaat 1560
agagacttct ccgttcattc gctttgaaga gatccaacc aaatacccat acatatgcag 1620
gtgacgagat tccgatataa agtggcctcc atcaaatac agtgcccctt ttaagcaatc 1680
gaaagactcg acttcactc ccactcacac c 1711

<210> 2044
<211> 2000
<212> DNA
<213> *Aspergillus nidulans*
<400> 2044

aaggcatggc agattacca tctatctaga taggagattg ccactatttg tacctattgt 60
acttctctga aaccctttg ctctaatta gactagaaac agaacaggtc gcaaccagta 120
ctgtattagc tataatcagg catgcagact atacagcagg ggaccctgat aattctcctg 180
gcagctcaag ctctgattta agttcaagct ctagaagtaa ttcagagtca ggatagtccc 240
agcaagcaca gtactgatat taaaataaga tatcagcaaa ggaaaagttt tactagaagc 300
ttatagtact tatttaacaa agcttggtta agtaaattccc agaattggaa gtcaaggcag 360
gcaagatgcc tatattcaaa gaaaagatc ctactaagct tgaaacattc ctactagacc 420
ttgaggactg ctttattggg gcgctgaacc agtataaaat agagaagaaa tagatccttc 480
ttggtactag tcatgttagt aaagatgctt gatactgttg gcactccaag gtcaagtata 540
taactagaga gccaacctgg gaggatttca agaccttat atacttctgg gttgatctgg 600
aggctgatca gggccaccaa gcagcctttt acctgctaaa taaataacag gaaggatact 660
ctattactaa atagactagc caatttatag aggtgttgcc ctacctcact gagcccctgt 720
tctatgctca gctacttatt aaaatactta ataaggaata tcagcagcac ctaatatata 780
taagacatct accctagact gttaaagagg tcaaagtaga ggcaattcag ctggaatcta 840

ttataaaata ggaaacccaaa gccaacccaaa aggctgacaa taagaggctg ggagataaat 900
 tagaggggaa taatccccag ctatagacaa aatagcacca aattaatagc tcagaagagc 960
 cacctgtctc tactaagaac aagaataaag ggcaattaaa ctacaagccc tgaaggggca 1020
 agaagaaaga taacctagtg tccaaagaag agcaggacca ctatagagag gaaagacttt 1080
 gttttaaata cagcaagtca gggcaccagg ctaggtacta ttactccaaa gagatgccag 1140
 agaaaagat agaagctaaa gaataggaat ttgcagctcc agagttactg atattgcgct 1200
 gtctaaacaa gactctaacc ttccctattc ttgcaagcct gaaaatatac tagaatagct 1260
 ctaataaact tctcaagggtg ctgctagata ctggagctaa tacaaatttc atctcttata 1320
 attatcttat taaacaagggt atctatacag acaaaactgc tatggcgcaa tctgtctagt 1380
 atgctaatag agagatagta ccctgctata gaaagtttat taccaaggta tagatatattg 1440
 actctactta aaaactttta accttgaata ttatgttcta tattatagat atagccctaa 1500
 tataatatca ggctatctta ggatagccat agctgggcca agcagatcta gatattctcc 1560
 tgtctaccag gtgctggcat tggcggcatc aggatccaaa gactatggta gaaaaaccta 1620
 caaagtttct ttatttaata aaagacaacc ctgtactgct ggtcatgtat aaaccagaga 1680
 ttagcagaga ttagcagtgt aatagaacca gtcctaccct gatgttatgg gtcctttgcc 1740
 tatacaagga ccttagacct tagtgactcg gccaaaggcct gcgctgtcct gaaggcgggtg 1800
 agccacctac aagacttcct tgcaacaaca atccttcttt ctcatctctt ctttagcgat 1860
 tccttcttga acgtacggca cgtcttaggg ttagggtttag ggtaggggtt aggggttaggg 1920
 ttagggtttag ggtaggggtt tagggttagg gttagggtta gggtaggggt tagggttagg 1980
 gttagggtta gggtaggggt 2000

<210> 2045
 <211> 1311
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2045

gctctcagat ctgtgttaat tctttgtcca tgcctaatat gctacacata caccgccaca 60
 tacatcggct ggatgattgt tctctgacag ctcgggcact tagtttccag cttattccag 120
 ttaattcaaa acatactgca catgtataat atcaagaccg cagaaaagata gataaaatga 180

atacgtacct gaactggatt cgatcttctc ttccactata ctacccatag tctgcctcag 240
 ctctgtgaaa gcacgaagca aaccagggcc cgggcggccg gcggcctcta cgacatgtcg 300
 tataagggcc ttgaaatgcc cattcacagt ccacttgaga ctcccatctt ttgtatctgc 360
 tcgagtccaa gccactctgc cccatcacct gcccttcacc tcaccgcctc aaggccctga 420
 tcactttttt gttcactttt ttgttccca cgcctcgatg atatagaagc ctctctcttc 480
 tccttacttc caccggataa tagcaggcaa ttgacctat attgactcac ttcgaagcac 540
 acaagtagtc acattacca caagtaggcc gagaaagtg tggatgcaac tacagaaagc 600
 tcgaatgtcc gcatccatt catccaggtc gcttggtgtt tgcctagctt ggtgacgca 660
 agcatccagt gaaaagttca ctgtaatacc cgggccataa atcactactgc tcaggggaaa 720
 tattaatggc aatatttcgt acttaataat actctaatat aactcagagt cgcacgtaat 780
 gcgtacacca tggttcctga aatcaagggtg gcagtcgac ttcctcttat cccgtgttat 840
 gctgcctagc cgcctcgatc atagcttcag taactctgat tcacaggctg tcctaaaaat 900
 gcgaaccag gatgtccctg ggtaacctat cccttgactg ggccaaaccg tccaagtggc 960
 attacgagtc gtccaattat ttgctctaaa cccgtttagg tcctctacct cgtcttgaaa 1020
 agctgcacag agactgattt acatccctga ctgaaagaac ggctttgtac ggaagtggta 1080
 gtgggaattt tgaactatag acagtgcctt ggactgggta gtcctaagga attcaagcaa 1140
 acggcgctcg agagctgagt tgagcacgaa cataggtaaa ttaggaaaaa atgtaagatg 1200
 gatagtggct attgttctaa gataagacac aacctcactg atatttcaag tcatactgct 1260
 ggcatggat ataatagcat ttgaagtgtg cgcatttagg taaaatagca t 1311

<210> 2046
 <211> 1216
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2046

agaataaaat gtctagtatt tcttttttaa atttatggag atccaaaagt ttgtcccata 60
 catatttcgc ctggtttggc ataaatgtcg agaccggcc tccctgtggc caaagatcag 120
 gactctgtag gagcgggggt ttgcggcaaa ctgaagacaa aagcggggat tgaactgtaa 180
 tgtagcgggt cctgaccggg aaacctataa attgatatta tctccttcgg gtttattgg 240

aatgacgggc attctaacct tcccgcgttt cgtatgttaa aaagtcgggt cagatgtagg 300
ggcctttaa agcttctttc gcggagctgt tatctcggt agccctgggc ctggacagac 360
cacgcagcat tggggcgagg ttcaagtctca gcgagcatgg cacgctcccg tcaaaaatag 420
tcgtggactt ggggcagtag gtggtgttca cagtgcccgg ttcaagtgat ctctgttggg 480
ctctctcaaa tgcgccaggg tgttcatcga catcgacagc gccggccagg aggccggtag 540
cagcagcgaa ggagaacttc attttggctg agtaagagag aatcactggg tctgatgttt 600
taaagagtgt ggggtgtgat aaacaacggg cgttgagaaa agagtggaat cggatataga 660
accgggtagt gagcaggtgc gtttggcaga tggagcagaa acgggctgga gagggagagg 720
aagaaggcag acggacccgg gcgagagtc tcatataaat gatcatcaac agcgccaggg 780
ctggcaaact gggcgctcag tgetgcagga accagggcct acgagagtgg actagtccag 840
cctagcgtgg ttgcagccgc cgaatcgtgg cagcgtcagg ggctgttggg ggaggcaccg 900
acggccta at ttcctttgac ttactctgat cttaatttcg ctactctcat ccgctgtctt 960
tttaggggct accggctcaa ggggctctc cacgttctga aagatcgatg attctagagt 1020
ctggattcaa tggattgcag tctggactct ggacgctgga ctgtgaactg cagtctattg 1080
ttaatagact gaggctttcc ctatccatgt cgccaaaccc tcagctcgct gtacagacta 1140
gcccgggggt ggcttgggtc aggaacatgt ttaaattgcc gggggccatg gaaccagtca 1200
aaggcatctc ctgaac 1216

<210> 2047
<211> 145
<212> DNA
<213> *Aspergillus nidulans*

<400> 2047

gaaggcaa ac aagaacggaa acgacgacaa gaataccgat tatccggaag caaaagccag 60
agaccaggcc accaacagcg caccaaaggc cagaaagcca ccgaacaaca acacagacgc 120
acaaaagaac agaaccagga gagaa 145

<210> 2048
<211> 2556
<212> DNA
<213> *Aspergillus nidulans*

<400>

2048

tttatagata aaaaaacata agattgctag tgagattgga aaaaaattta taaaggctta 60
taaccccgt ctggaaattg agagattcaa cacaccaaat ctaccaata accaaatatc 120
ctgaacgaaa agactagtca aaccagaatt aaccttcctt tctcctaagc gcctgataac 180
gcaatatgcc tcgcaaccgt gtatggtgag gcccaaactt cagctgcaca gctgcgagg 240
cagtttgga gcggcacatt acgaaaagca gcgatcagct taagatatga gaaaacctcc 300
tcggaactt aggggtctcca atcgtaaaa tggttcgtca aggacggtgc tggccatcga 360
gtcgaaggc tgacagaggc cgatgcgaaa aagctccttg gccgtcctgt tgacgaagat 420
ggcgatgtca ttgaccagca cggtagcgtc aagggtcacg cagaacccta cgaggaaccc 480
gaagaagagc agcctgaaga tgtagacctc tcggtcctag aaggaaagac ggtcaacaaa 540
gccggaata ttgtcgacga gcacggaaaa gtctatggtc gcatcatttc cggcgatggg 600
aagcgctcg caggccggaa agtcgacggt aaggccaga tttggagtga tgatggcaaa 660
gtcatcgga aggccgagct cattcccggt gctgagcagg agaagccaga aggtatatc 720
tacggtttcg agagctcac ggttgggaaa gaaggcgtgg tccaggatgc atctggccgt 780
attgttggcc gtgtcgtcga aggagatttc gccaaacttg ctggtcgcaa ggttgacgag 840
gacggcgata tccttgataa gaatggtaac accattggaa aagctgagcg ctgggagcca 900
gaggagaaga aacgaaacat caatcccatg gcaaaccgca aggtcaaccg tgagggtgaa 960
gttcgcgacg cggacgaaa cctcatcggc aaattgactt cgggtaatct gagcagcctc 1020
attggaagg agattgatga caacggatat gttgttgaca atgacggaaa caagattggc 1080
gagtgcactt tactcgagaa tatcccgag cctgaacctg aagaacccga accagaaggc 1140
ccgtctcctg acgaattgga agctcaaaag aaagagcaag aggatagaga attggctaaa 1200
aagatgtcgg ccatcgtttc tggaacctg gaccgtatcc aacctgtctg caggatgatt 1260
acagatgtga gtccgactga tcctaacca gagatagctt attgacgctt caaagcacgt 1320
tgaccgggca gagaagacgc cgaagaacga gcttgatgag gaggagcttg tcaagaatgt 1380
taagccgctg cttgaggagg ccagcaatat cctccaggag tgtaacggcg ccattcgtgc 1440
cctcgacca gatggtcgta tcgtgcca cgcaaaggcc agagccgctg ctcacgaagc 1500
ctctccgaa gaataaatc tggccgagaa gctaaaggag ctttcagact cggttctcag 1560

gaccatcgag aacggaaaga gaaagatcga tgggatgccc catgcgaaga aagagctgaa 1620
ccctctctgg ggactcctca gcgagccact cttccagatc attgccgcg tgggtctcct 1680
cttatctggt gtgttgggtc tcgtcgggtc attgcttgag ggactcggac tggggccctt 1740
ggttaatggc ctgctcgggtg gtctagggct cgacaaactg ctgtcgaatt tgggattaac 1800
gtcgtgacg gattctctgg gattgactgg caagaagaaa tgaaggcgag ctgtggaaga 1860
cgaagctctt gggccggaat tatgataagc taatgctaag tcacggatgt taatgcctgc 1920
ttaagtaatg catattatac agactagtta gtaatgtttc aatgacagtg acatattcat 1980
ccctacgaat ctcttaccgc acatcaccgc ggtgaactac gagaagacaa cgacgagcct 2040
ggattcagcc acaggaaact ggatagtggc cggatttgag acagatctcc ccggatgcag 2100
tgatgatgct tggtttcgga ctgaagctga ctgcgaggtg acaaagatgg tagagggagg 2160
gcctgggtaa aaaattcagg gaaactgtcg actgctttga ctgcttcaac aagtccgagc 2220
cgttgggaat tcttcaaggc cgaaccagct aagttaaaat atctggacta aacaaatggt 2280
gttggttaa atcacctttagg tgttcggaag cctacgtgtc agcgcgaggc ttctgatgga 2340
atcatcgggg aacggtcacc cggactccgc cggaatgtg ccttaaactt gtgccttacg 2400
cctcgattga gaagttctac tgggtcgtgc aatagtgcaa ggctcattaa ccatcgaggc 2460
ggcggcagtg ctgctggatt cagactacaa cgctgttaa tgccacatga gcataaagag 2520
tctataatac cttggcaggc aacttgggtt agggca 2556

<210> 2049
<211> 2871
<212> DNA
<213> *Aspergillus nidulans*

<400> 2049

tggggttcaa cttgggacgt gggggacacg gcgtgacaga catcccggga atggaaatct 60
cttctggcgc ttatgatttg tcgcgatgcc gagtttctcc cggtaacgat cccgacggca 120
tcctctcagt cggcggggac gacgttctat ggctggcgtg attggaggtc gcgctcaacc 180
gactggctcc cggggcagct atctactccg tacagtcttt cggttcgcgt ctctccggat 240
ttcggatatc cgactgtctg gatagcatgt cgatgactgc ttgtctggtg gacgggccat 300
ctacgaccgg tatccgccga cagagggacc ttcgacttgg atatgtctac gattctaccg 360

aggagaggcc gatgatgccg gtattcgggg tctatcatgc cactgcactg gcatcactgg 420
 cactactggc gtcacaatga tacccttagc ctgaaacct tgaagacagc ttaagttggc 480
 taaggcatca ggcaagctct gtcttccga ccgatggttc gcagttttgc attttgggaa 540
 tggaattaca aggttttaga gtgttgaggt gttaaggtgt tgaagattta aaagatgtta 600
 agatgttaag gatctaaaga tgttgggtgt tagatgatag gtgtaggtgt aggtgttattc 660
 atgtgtcaga ttggtctgta gtaacacaac gctgcatgag gccacgccct ggtcctggcg 720
 tagatggcac ccgtagcag ttctcttctt cctaattctt ctcttctcta ctttatgttc 780
 gccatctcaa ccgcatcacg gtatcgagtc agttgctttc ggagtattgt tcaaacagtg 840
 tgacgcccg tttcatgatg tccttgctgg tcacggttcg agatgaccag gtctgggtgct 900
 ctaccccgcc atcaccactg taacctgcg gcaacctcg tctctcgctt atcgaccaca 960
 tggacctcg aggttttatt atgatgatct ctccccaga atgcatgag atttcgatta 1020
 cgcggtagcg gattcgtcat ggagactaaa gccaaagcttc agggcgcatc gctaggcggtt 1080
 cagtccgacg gcgatggatg ataaacaggg acaccaggaa cctaaatcag acctcggtga 1140
 tgaagagtcg ggcatgaaga ttatgccatg gaacgagtcg actctggaga tattatagtc 1200
 tggagttttg gcagcagcag cgtctgggga tatttttagct gcctgcgctg ctccacctgc 1260
 tccctcctgg gacgtctcg cctgcgtcat cgtcaacgct caccgctcct ccaacaccaa 1320
 gatcgcaata cacggcatcg atatttatca tccggtataa tcagtcggtc attgtaggtc 1380
 atctcgaatc cgtgactcgt gcgttggtcca cagaccatcg cctctgcatt ccaatcccc 1440
 tgcattctca tcatgggtga ttgcgatag tttgtttagt cttcgagttt gtgcaccatc 1500
 ctgacttcag gtagaccac attctcgtgg acgtctcagt ctctggcatg cgcagttgag 1560
 catacttcca ctgagttgct gcgccgttgg ctgagattag ccagattccc atcagctgag 1620
 tctggaatcc gccgacaata atcacgtccg gtgagccttc tttttattca ccatgctggc 1680
 cttcactcct gtcaccaac cccatcccat ctgggccatt cgttcgttgc tgtacctggg 1740
 tcaaccatct tgggtcccgt cacgctcctt ttcacgctct ttcacccctg tctgttgcta 1800
 gagtataata ttttcgttcc atacaacgct ccttaaccag cctgtgggg tgcaagccgc 1860
 tctttcacat actgccttgg ttgcagtgtg caaatgggac tttgatatcc accataatca 1920
 tttgatcagg ctttctaaaa gaagctggct cctgtgtctg atttctgttc actttctgta 1980

tcctcgattc gaatttgcct gttccatact ttttcagaat ggaggccaag tgcaagactc 2040
 gtctagcaaa cgtgctaattg ttgcttctcg ccgcaaggac tgtgtgctct gcgccaactc 2100
 catctcaatc ctctggggtc tcagagagca ccaggtatcc cccttcacc cgaggcgcaa 2160
 gactgctgcc gcccagagaca cagggcgtaa gtactcacgg gggcttgata ggaccgcact 2220
 gacgatgaca gttctaccct accaaacttg agcgtgaggg ccacgaactg gagcagccga 2280
 cgcccactcc agacgaatca tttgttgac tgaacgacct actagacacc ttgggtcagc 2340
 ctgagtcttt gcttaattgg ctacttccca acccgagca accaacagac gttccatctc 2400
 agccgccagc tgcaccaacg tcagaagcct cttccacacc tctcgtggcc gcgacgcctg 2460
 ttctactac gttgcctgct actcacaaca ttatcgagca gccactact gtcagttcag 2520
 taccagctc gttcgaggct accacagtca caacttctag ttcagacgaa aacagcccag 2580
 tagtgagcac attcacaacg catatccaag gtatgtaatt ctcccaccga acacaaaccc 2640
 tccctaactg ataaggctct gccgaaatgg tcagccaaga cgtatttgtg ccggtgggaa 2700
 ctgggtccgat tctgcccgc atcacttctc ggaacgacca tctgttcgc aagaatggag 2760
 ttgtaagtgc gcctacgaac attcatgtag tcgcactaac aaggctagaa ttcttcgaat 2820
 cccattgaaa cgaacaagtt ccacagtgc ctcttctag ggaccagacg a 2871

<210> 2050
 <211> 573
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2050

cagacggatt cgctatggcg aagaaaaccc catcagtgcg acctttcaaa tctgtgtctt 60
 gtgggctggt tagagagttt gacgatcgac gagagctgaa aggatggacg gtcggaagcg 120
 acggaagaca gcgcttaaag gaggcgatcg aggagaaaat cggtgagcgg accggtcttg 180
 tcgacacgtc tgaagggcga aatcgatgaa gaataagcag tatttctgga gatgcagcaa 240
 aagacaaatg caggcgctc gcaggagcga agagagggca ggcaggacgc aaggcgacc 300
 ggtggagagc ggataaggag agtgtttggg acagctgctg tgatagcttg gtcgagagat 360
 ttcaatctca ctgggaaaga aaaaaagaa ggggtgcagga cagaaggaaa gaaaagaaac 420
 agtcagacta tggcgataat gattgaatga cgagaaggaa agaagcagat gaagatcagt 480

gcagtcacag gactaggaga aagacgagga ggggtggtgaa tggtagtag tgagtgggta 540
catttccgag tccctacgag actagcccgt cat 573

<210> 2051
<211> 6490
<212> DNA
<213> Aspergillus nidulans

<400> 2051

gacatgagcg gcgagcagat gcaggccaag attaccgccg ccagacgcga agctgaaggg 60
ctcaaggaca agatcaggcg cagaaaggat gatcttgccg atacaacctg tacgaaaatc 120
ccctttgttt ctttgcatag tgtggtggaa aacggccatc tttatcgcg ctgccatcct 180
actgtctccg gagagtgtgt gactagagca aattgaacag tgcgtgatgt tgcgcagaat 240
cagaccgacg ccttgccctcg cattggaatg aagccccggc gaacactcaa aggtcatttg 300
gccaaagatct atgctatgca ctgggtccacc gaccgtcgcc atctcgtgtc cgccctcaca 360
gatggaaaac tcataatctg ggatgcgtac actacgaaca aagtccacgc catcccgcctc 420
agatcatcgt gggatcatgac ctgcgcttat gtccttagtg gaaactatgt cgccctgcgg 480
ggctctggaca acatttgctc catttacaat ctttcctcac gagagggccc gactcgtgtc 540
gcgcgcgaac tctccgggtca ttccgggtac ctctcctgct gccgtttcat caatgaccgt 600
cgaatcatca cctcttccgg cgacatgacc tgcattgctt gggatatcga gtcaggctct 660
aaagtcaccg aattcgcaga ccacctcggc gatgtcatgt caatcagcat caacccccact 720
aaccagaaca tcttcgtctc cgggtgcctgt gatgcttttg ctaagctctg ggatatccgt 780
actggaaagg cagtccaaac ttttgctggt catgaatctg acattaacgc catccaattc 840
ttccctgacg gcaacgcttt cggaaccggg tccgacgata ccacttgccg tctcttcgac 900
attcgtgcag acagatcact caacacctac caggtagagc ccggttgcca cactcattgt 960
aggacagtat tgtaacaaa tgccacagag cgatcaaata ctgtgcggta tcacatccgt 1020
cggtttctcg gtttccggaa gattgctttt cgccggatat gatgattttg aatgcaaggt 1080
atgttctgtt ctgcacgcct gtgattctgg agacgggtgac tgaccgatga ataggtctgg 1140
gatgttctcc ggggagacaa ggtgggggtct ttaagcggcc acgagaaccg tgtcagctgc 1200
cttgggtgtca gcaatgatgg catcagttct tgcactggat cttgggactc tttggtaagt 1260

aaagcaaatt ctcagttcat gaaaaagcca cataactaatc tgcctttcaa taacagctca 1320
 aggtctgggc ctggtaaacg gtttaaagaa taataaaatc acaacgacgc gataccctgt 1380
 ctcagtcatc tgcgactttc cccatttgaa attctatttc tacttaccga gagggccgat 1440
 gtccgcattg tacgataatc ttgtttgtcg ggatacagtc tatcgcttc tccctttatt 1500
 caacgactgt gggagcgcag actgattcag catggaccgg aagacgcgag aatagagagg 1560
 atatgtgctt cagcccgctc cgtatacccg aacttggatc gcgcaagccg gatcatctgg 1620
 aaagaaaaag aaaacaaatc ttatgcagcg gttgtactaa tgttgccttc tcaggatggg 1680
 tacaggggct ccggctgggtg tctggcatga cgcggaatcg tcgagattca tacggttggg 1740
 cttcgacgat cccaagact tttcaatttg ttctatgatt tctttctttt cctatctttt 1800
 ctttgctcct tataatccccg cccaggttcc ttttttgatc aattaccctt cgctatacct 1860
 ttgattggat tgttttctac gcattgatcc taaatgtact tttggtgagg caggaggaat 1920
 gttttgtttc ggccacgacg ttaattgagt gcatctggat tttattgctt ttgtcttcta 1980
 ttttctaata acagcttaca ttggagagtt agtgatttga agcgaacttt gcctgacttg 2040
 tgattggata tgctgcattg cagttggatc tccaaccact ttttattgtt tgattatctc 2100
 ccccaaagcg atgtagagca gtgatgaatc caatgcgaat ttcaggaatt gcggtcaaga 2160
 atagaatatg ccaggcaata acgtaatatg ggggttccgt atcgaagctg aaacgtgttt 2220
 ccagccatcg tcgtccagag cgtcgggcca gtggcttaga tctcacaagc ctccacgtgg 2280
 aaaagtaaga ataacatcat caacgtcaag atatcttctg caacttccat gacggcggaa 2340
 ttcttggtgt cttctagctg cagccggaga ccgggacggc aggaatcccc caccgaact 2400
 acacgaaaac gaaatacggg gcacagatga aacaccgttg agttgtcaca agcacacgat 2460
 catcaacaga gagggccgc ctctcgtttc agttaccgcc ccctcgtcct ccgtggctcc 2520
 gctcctgaac tctctccac gtcaatcggg agacacgacg caatccatct caggtttgct 2580
 tttgcttttc ctgctccgtg ctccggaatc cgatacgacc tctcaaacia gtgccctgct 2640
 cacggatgct gcagacctta cgtatataag tgtttcacca cccccaacta caggcctcct 2700
 ctcttttcaa tatgtctaca gcccaagacg agttcaatca gctcttcagc aatcgagaga 2760
 agaacttgct ccatcccgag gacaggaaca atctctctga caacgacccc tcccctgacc 2820
 cgcacgacca agaccacttc gagcactccg actccgagga catggcagcc atgacctccc 2880

gaacaaccag ctacacagtc cccaacaccc gattcgaagc taatacaggc cccaaggggtg 2940
 tcattgcaga cgcccagggt ttcgagcgtg cccgccgaac gaatttcgcg aagtcatttg 3000
 tctccggcaa ctcggccgcg cagcgcctac accaccactc atcctccaag tcatccggcg 3060
 acgctcgact cctccacaat tccccaccag ctgatggatc aggtagcgat ctgcacgagg 3120
 acgaggacac ttttttgcg cgatggcgcg aatcacgcat gcaggagctg cagagcatga 3180
 aggctaaacg gcctagtgcc cggcggagat attatggatc gttggaaacg gtcgatgcgg 3240
 cggggtatct ggatgcaatt gagaaggctc cagcggacca ggttgctgctc gtttgtcttt 3300
 atgaccccaa ggtaggtgcc tctgcaccc gccggtcacg gcttctgctg ttataaggag 3360
 cgttagcgta gcttaccagc acagtccaac accagcgccc tcgtcgaaga ctgcctgcac 3420
 acgattgctt ctgcgaaca actagtacac ttcgtcaagc tccactacga gattgcggaa 3480
 atggataaca ttgaggcccc cgcgttacta gcataccggg gcggagacgt cttcgcaacc 3540
 attgtccaga ttccgcagca gattcccaaa ggtcgaagct gcagcgcgga tagtcttgag 3600
 gacttactaa aatcgtgagt gtttctttgt tctcgtatct tatatttttg cttcttctgc 3660
 cccggcgccc cactgctac acctacgtaa gattcgtgta gtgacatgaa actaactctc 3720
 ctccctagac atcgagtgt gtaaagtgat aaacatagtt ctttatttcg atgtctctga 3780
 attttgagc acggagtacg gttgcctat tactttaaaa cggatataccc gtaacgagat 3840
 tcacgctata gcctacagga tctgaaaccg acagacgtgc atactcctgt gtcacagtat 3900
 atcttcgcat cttcttctc atccctccgc tctcgtctctc aagttgctca tcatatatcc 3960
 aggcatgtcc aagcggccgt ctttcatgtc atagaagcta tctcgtcttc tcccattttc 4020
 atttgtcttg tcactctgct acatacattt tttattgttt tgcttcttcg ttttcttct 4080
 gctcggagtt caggatagga caggtagggg aggcaatttg gctttactgg tcagtcataa 4140
 tttcagcatg cgtcttatgc cgcttactag cttctctgtt tcagctgggc tatttttgta 4200
 catagcatac tcacaacgta atatgatatt cgatcagctt cgaaccttat tctatgctca 4260
 gttcaagtag ttcagctgcg cagtcagttt acgtgtatgg tgttaagcct agttggctgc 4320
 tattcttgag gtatccattt cttatctac acaacgcgca agatataat gtatctaaag 4380
 catgtacaac attccttttt tactaagttc taagtacacg caaggatata gcatactaca 4440
 ttgaacctca caatacgccc attgaaggga tagtttcaaa ccacgatgaa gggagcgaaa 4500

agacacctac actgccagac aagcaggatg gtaaggtaga cagccgaaat atgtcgccca 4560
 aacacccttc cctgcaagc gtgtaacttg agaccgagac aagacggttt ctaagcagct 4620
 ttctttacat taggagttac cttacgctaa aagacaaagg acaaaggtaa gtgactacag 4680
 acggcatctg acatatatat tgagacagaa agatgatcaa ccttaataat gtacttccat 4740
 ttcttagatg ggatcaaggg tagtaaatac acaccaacca acatgttggtg agcttccacc 4800
 atgacgatgg cccttcattc ctctagaaca tccagtttag agagtaaatac agaatagaata 4860
 ccagtgataa catgaatagt caatatgcga gaattgcaaa atggacgtct ggaactctca 4920
 gaacaaaagg ccaagtaaaa gagaagaatg agggtaaaaa atacggttgg atagggtagt 4980
 gtggagtacc ggcacgttga gcacggcgta agaaggacct gaagctcatt gttgatataa 5040
 aagaggaaag ggaaatagga gacgagacac atgaaaaact acagagctcc tttttcctgt 5100
 gtaaactccc aaagcatttt gatcaatggg tctggcagtg tatagaggtc gacatggaat 5160
 tctccttctg ttagatgtgg ttagtggttg gtttttcgga ctagatctga ctggaatgga 5220
 ggacttacgc tcgacatcat tcttggtgta agaatacagg gccttattat cgtgtaccat 5280
 ttgtaccact tgcaggaggt catcttcccc cagtcgctgg agaccatcgg ctagtttatac 5340
 catgtcaacc tgggagtaag aatgtcagac gtcaacattt cagtctctat attttcattg 5400
 actcacgctc ttatccgttc gcttcttctt cttggatcct tcttctccac ctgcagagcg 5460
 cttcgacttc actccgttct catcgccagg aacagggtcca gattcacgaa gcgccgcaa 5520
 taaagccggc ttgggggttct tgaacgtcta cagaagatgt aagcatatat gacataagag 5580
 tctgtctgga agcagtcgag acgtacaata acgtgcttag actcataacg cgattgcgca 5640
 aagttgagat catgtgcgat gaagtgtcc ttgttgtccg cagcagtgag gccgatctgc 5700
 atatcaaact caccatcc ctcttcttga attctgaacg gtgggttttt gaatactatac 5760
 gttccagggt agccctagct gtagtaatcc agtatgttg gtttatcatc cgagctctcc 5820
 ctgtaatgag aatcgggata aaagcagggt ataaagacca cagaagctca aagggaagt 5880
 gactgacctt gagtcgctcg gtttccgaaa ctaggatgta atgagtaagt caccttgctg 5940
 aagacattgg ctggcacctg ctcccatgc tcattgagga gatacacctc gattgaccat 6000
 gatcgaagag ggaaaccttc gacaccggag tccttggttac tgtaaaggcg cgaaagtcaa 6060
 gcaatcagca agtttgtcca tatattatcc ccaagatcat gatgcgatgt ttcataatac 6120

acgggtagtt gtcgaggaaa ccgcgtataa agcccataac gcgcggaaaa ggagtaattt 6180
 cgcatgaccg gtgaaattga cggcaggatt gacacaggag gggaagagtt ggctgtggat 6240
 cgggctgttc tcgacacgga gatgaagtga caggatgggt ttaacgtaca tgacgtgctg 6300
 ctcggttaca agcttgacgg tectcttaac ctgtatgata gaacgtgttt gttagcgaga 6360
 tgcgagagca gggaatgtca ggccatgaaa ggagatgata tccagtcctg gcggctgtac 6420
 cgccgtagac tggggaccag tacgggtcaa ccgtgcggga aactcacgtc gggcatgggtg 6480
 atgatgagct 6490

<210> 2052
 <211> 2559
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2052
 ctgtcgcgcg attgcggccg cctctcctgc tcgtccttgc gcaaggctgt tgagataatt 60
 ttcccgaccg gctaatagct ctttcgcgtc attttcgtat tcctcttttag cggcctggcg 120
 ccgcagacgt gctagctctt gttcttggtt ctggcgcttct tggaacgagg agacttcttt 180
 agcttcgaga gcttggttgg cacggataga cttcatgttc tccgatgcat agctctgaag 240
 atcggcctca gttttcgcga cgccaatcct gttgacaagg ttgaatataa tctcctctct 300
 ctgctctaaa aagttgtccc agtctagctt ggaatcgaac tcttcttctc ggcggttaag 360
 gctaagcatg gttagcactc aggggggagg cagacaggag aacaactcac acagtcatta 420
 ccctgcgccg tatatcaacc tccctctcaa catttatatc ctccaatgtc tgtttgcgaa 480
 accgttgctt tctcaatgtc ttgtggcacc cggccacagg acagttcgcc gggcctccgg 540
 agaaaatcct gtccacgcat gactcgcaca ttttatgata gcattctggg tttataagga 600
 atcgcagtc cgggttcaga taccgcgagg atttgcagac agggcagacc tctaggaagg 660
 acgtgggttag catggattaa agcctcatgg tccgggaaca gagcttacca tcttcatccc 720
 cgcgatttac caaagcctcg cgagaaggcg gcatgactgt agtaccagtg tccagtagga 780
 tggacaacga caatatgtct taaacactgt tgagagagtg acggagttaa gagcaatgca 840
 ggtatctgac ggtcattgat atgtcgcgtt acccaatcag attgatgcc cgttgttccg 900
 cgcggcgagt ctttgcaagt gctttttgcc gcccgctccc caaaagttct cttcacttta 960

cttttgcatg aaagtcgcaa cctttttcac ttcttggeat tgcattgagt gatagctttc 1020
 gcttattact cgttctgaat ctgaaatggg agttccggac agcagtattg aagggctcga 1080
 acgccagcgt cgcgaactcg agagcaacat tctacaacta caacaatccc ttaccactg 1140
 gaggacatgg gaagcggaat atgaggggct gaaagaagga atcgccgact taggcaacga 1200
 tgctacaaca aacgatttcc tgcgagtcag ccgcaaattc gggggacttt cgtcaacgaa 1260
 gacgagtttc gagtgattat tgggtgagaaa caagctgtcg gcgaaccaga caacaagtta 1320
 tcgaccttat ttcgaggcga atagactacg ttaagaccaa tgtggcatcg atggaaaaga 1380
 gactgcgtgc agccgagccc caaatggaag ctttagactc tgcagaacac ctaactcgaa 1440
 atccagcaga cgactttcct atgcgagaaa tcattgagga gcttgacgaa aacggagaag 1500
 ttatttcgag tacgactacc aaccggggg atcaggcctc gagtctattg gagattctaa 1560
 aaaaggctgg tgtaaggat ataccagacc ttccaagcg ggacgcttc gcgtttattg 1620
 agacacactc tccggacact gcgtcaaaag atactttcgc cccagcagcc gaacaagggtg 1680
 aacaggcggg ccagaagaag gaagggtcaag aagaggctgg tcaggagctt gcctcatcag 1740
 gaggcaatga gccctcttcg tctgcatcgg atgcgggtgg gactccggca gaagttggaa 1800
 aagagacccc tgtcgtggat gtcgacgagt ctccagaaga tgctcagcta cggcgtgaaa 1860
 tgttgcgata tggactggac gaggtaggcg ctgtagtgc cgagcttgag ttggatgatg 1920
 atgcaagtga aatctcaatc gaagaagaat acgatcccta tccatacgac gacgaagacg 1980
 aagaggaaga ggaagaagat gagtacggac gaagtatccg gcctgttctg gacgaagact 2040
 accaccgtca gatgcgtgaa ctggaggcga aattgaacgc tcgtggtatg tggaatgtgg 2100
 gcaaagactc tgcgtcgctt cctgcggatg ttaaagagga ccttgaacat ccggttcagg 2160
 taaaggtaga gaagacaccg gaaacgaatg gtgaaacggc ttccaaggca aagcctagag 2220
 aaaaagggtg ccttcgctga taatcttggc attgcgcaa ccccaaagcc cctgctcct 2280
 gaaagcataa aggttatccc tccaaaaccc gatgttcttg ttctgtcgga ttctataatt 2340
 gagcgtacag cagcagagaa ggcttctgct gctgttgacg cacctacccc gaagaaagct 2400
 tcccgattca agaccgctcg tggctctgca gcgacgattg ccaatgcaag ctccgctgca 2460
 ccctogacct cattccaaca caaacccgca tcgctcgaac caaccccgtc aaaaccactg 2520
 ttctctgcca agcctgcaga accgaaacca ttctcccg 2559

<210> 2053
 <211> 2078
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2053

```
tacgtccgtg cttattgttg cgctcactgt ggtcaagcag agaatacggg cgacgaacta 60
tcttgattga tgttggtttg gttgggctat ttggtatgct ttgctggaca tcatcctaaa 120
ggaatattgc tgactgaaaa ggcggttaca ctgctctgtc aaccaaagga gtctcatccc 180
tactgtcata taccctgtgg catgtcatca catttccgat cacctatttg ttggtgttta 240
tccttgtctt cagtgtctta atgcaaattc ggtatatcaa caaagccctg cagcggttctg 300
attctacgca ggtgattcca actcagtttg ttctcttcac actctcgggtg atcattggta 360
gcgcaatact atatcgagac ttcgaatcct acacagcgtc gcgtgcgggg aagtttgttg 420
gtggttgctt gctcaccttc ctgggtgttt attttatcac aagtgggctg attcgtgccg 480
atgacgagtc cacctactca acggatgagg aagaagctat cggactccta cctggagagc 540
gatatcagga cagagtcgat ttgtctcttc ctctgcaagc tcaaacgaag aatagaccac 600
gaccgagaag ccttgattta gacggcactc tccagtcgcc tccagggctg cttctcagcg 660
agggccttag gaaccttgat gatgatgatg accagagcac tccccgagcc gctctctccg 720
ccgagtctcg ctgcctact gggtcgggtg ttgccgatct ctctgaacct tctccaggct 780
cttcactctc atcccgccct ttgtcacttc taagaaacct ctgggccgag tcgcttgaag 840
agacagcgtc tgaaccagag atcgagcgac caagcacccc tccagaaccg gccgtgcaca 900
aaccagccag ctccaccata cttcttcgct tccctctctg cccggacgtg gatggagcga 960
atggtacaag ggtagtgcc cggaccaatc ctgcacccga gacgccgccg cggagagtac 1020
ggaattcaat ctcttcacac ttctcaccag gaccttggtt ctctacacta tctggcggat 1080
tcagcgctgt agttgctgac tcgatccgcc gcggtgagat gagcccagtg aaagaacgaa 1140
gggcaataaa gtcacggggc cgaaggaagc atccgagtac gtcgattatc gataacattt 1200
cgcgagatgc ggatggtgct gcaggggaat cgagccagga cccggatgct ctggtggaca 1260
gttctgataa cgctatcgcc gcacctgcta ctgcaggaca ctctactcct gctatggagt 1320
acggagaggt ctgcgcaac aactcggacg acctgacgac aatttctcgc ttgcgcagtt 1380
```

taagcgactc atggagtaaa acagtcccct ggctgggagg tgtgctgcag aaacgaagcg 1440
 aaagccagac aagccccggc gaaactgaag ttagcgaggg agctccaaac cagtctgac 1500
 gccagcttc aggtgacgca aatgcttgag ctaccagcgg tcctgatctg ttcaggtacc 1560
 tgccattatt ctaatgttct tagtacatag tgcctttcct ttcaaccttg ttggtatata 1620
 ccaactcatg gcgtctcttg cacctttgtt catagcatat tagtaccat agtgcaattg 1680
 taattagaga aattcatttc acctcttcgt tttcatcatc atcatcatca tgaaccagc 1740
 catttttttg aatccaatag ttaaaggga taatgcatag ctacttgatg tccgggtggt 1800
 gcaggtgata atttaccgga gagtcccaat aggtggaaaa agccaggact atcgatccc 1860
 aaggaagcac taggtcccaa accccaattg gcgaggtcat tacgccgtcg ccgtcagggg 1920
 cctattttgg agtagtatac atacacccta tggtgactg agtcatccc cagtgtggac 1980
 ctccctttca actccgcagc tgcatttagc cgtccttctt ctcttcttcg ctggggtcgc 2040
 accagctcat cgttattgac tattctctga tataactg 2078

<210> 2054
 <211> 2465
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2054

tacctaatta gaagcgtttg gcgtgtgggg ccagtacctc aaggccgtcc ctgacatgag 60
 agccaacgtc aagcaccacc tgtccgctgg caccgggtgtt ggccttcctg gcgacgctgc 120
 tgatggtggc gctagcactg gcgatgggga ggtcaagaga ctgggtaacg gtctcgaggt 180
 cctgggtgat cctgggtgga gcagccacaa cggaggcggc aagggccgcg agggcagtga 240
 tgtaggcagt cttcattgtg atggaagtaa atgagtgtag atagtttggg aaggaaagac 300
 taaagtggga atcgacaat agagaacgac tggctggttg gaaggaagag aagaaagac 360
 ggcccaggga aattctgact tcttatatgc cgccgggaat agggatcacc aacatcgaag 420
 ctgtgatgat cactaatatc cacatcctag atgcaaagga gcgtttggcc catagccagt 480
 tggcgggtga acccgatgc tgggtgtca tgggaccgac atcaataatc caggtacgta 540
 tggagtacgt ctaggggtgtg gatatggata tgatactatt tgtcaattcc acatggtgta 600
 agatgagtgc tatatgggat aggaatcttg cagagatag cccgagtcca tcagacgaat 660

actgctcttc cttgectgct cttccttgcc tgctcttctc tgectgctct ttgactgctc 720
 gtgectgctt ttctctgcat cttctttgcc tcttctttga cggcgattat ccgagcctct 780
 acggaatacg caccgttgcc cgaacgaaag cagacactag cagaaactcg cagccaacgt 840
 tgagcctgca ggacagcatg cgtacctatt gtgatcaacg ttctcgttct cttgagcatc 900
 gccgtcaaac cctcgagctt gaagccacca gtcagaaacc gtcaagcggc aatgtagatc 960
 ggcacctgaa aaatggacga atcatacaat gtatgacggt cattagttca gggatatgtcc 1020
 caaggtaacat acgcggtgga gcgtacggtg ggacctatac gacggacttg acggcggcgt 1080
 gttggccgca atggatctat aactctttaa gagtactcgg agtatattgg aggtacgcac 1140
 tagcaagaca tctcgtggat catttgctgg cgaattttcc gatagctctc cgtctgttga 1200
 ctgagagaca tctagcttcg tagccggcca tcgagtggat gtctggatat ctggctgtcc 1260
 ctggctggga cgactgggag tctgaggtgc ctgaagcatg gggaccgaac aagagtccgt 1320
 ataactctga cctcaacttg ctcccgatgc cgagtctcgg tctgacgccg taacaggctt 1380
 gacactttcc gaacctgttt ttggcccccac agaaatgatg agccaagtta agcaatacct 1440
 cagcgaagcg gaagctctgg agaccagtgc tgatcgtgca aatccgggtca tcctcattta 1500
 accatcctca ccgtactgtc gggcaatata cgccgcccat gtagtaagct tgatcatgca 1560
 gggagctagg gtagcagcca gtctccaggt tccatcgact catacctcgt gaggactgac 1620
 tctcggcggg atggtgcaat ttactgatt ctgcattccg gttatccaca cccagatga 1680
 gatggagtcc gtaggcattg tggtcgcggg agcgcagctc gggcgagcgg caggcacccg 1740
 cttctcgcag ccttgggcac cgtgaatttg agaaaagccg tgcccacgcg gaaatgacct 1800
 tccgagttct tgctttttgt tcctctctat gatctcatat catttaggac ctcaaggaga 1860
 aaggggttgg aagctttctt ggtggtggag ctgaggcacg gtgagtggcg aacaggaaat 1920
 actccgctgt gcgggccctg cggactcagt ttgggacagg cgctgacgct gatgcggata 1980
 tgcggatact tcatactaag gccagactct gatactaagg tttgtttagt ctgataattt 2040
 agtattgact atttgattta gtacgccact ttgtcaagat gagggccaat tcacctatta 2100
 ttccaagac ccaacttgcg cgttaaaatt cctgaccgtc tcgagtactc tatgggcaat 2160
 tgaataccca ctgtccctag ctgtgaggca ccaaatggag gcgtggatca tcgtctaggg 2220
 tatttgggga tttggagttg attcgtactc ctaggcagat gtcaagatcg caaccacttg 2280

atgacattgt cttatacggc gatcagggga aaacagcaag aatactgtga cgccaaaacg 2340
 tcatgggtgtt tgaacattgc aaatctggag tcgtcatttc tttttgtcta tgtccacggc 2400
 ctatcccgtg ctcgagatca aataggctga gaccaatagg ctttgtcaaa ggggaaaggg 2460
 ataga 2465

<210> 2055
 <211> 3089
 <212> DNA
 <213> Aspergillus nidulans

<400> 2055

taaagcacct gcgacaagtc gttaactgac agttccaaca atatggagaa ctcaagtcga 60
 aatgaaatgg acatacgata aggcaaaaaa tgcgatcaaa gcaactccga ctatcaccgc 120
 aaatgcgacc cagcggcccc attcatgcc a tctgtcgcaa cgacggcggc catacccgtc 180
 gaccagcta gaaggatgg tagctcaagt ttgcttactt ggaggaaaaa tggcgaaatg 240
 gacaagactc tcgacaagct tgagcgggtca aatcaccata atccatttga ggcactcacc 300
 agtctcgcgg taacagaaca cccatagtcg attgacctct ggatttggaa tccgaatctg 360
 gagtggagat gacgtcgatc cagcagtgca cgagcaagct gctataggtg aaaaaaacag 420
 taggctcgta aggtttcaca aaaaggtaca ggggccaaaa ggtcgatgat aaacgaagga 480
 tagctgcaga atgccactca atagacaaag gatagacaga tggcaggatg aagtggtgca 540
 aggggagaag atcttaaagg cggctaaggc agcagccaaa aagcgactga aagcccggca 600
 aggctgggct gtggctgagc actagtccca tacggaggat ggcgaaacga agcgcttgac 660
 ttcacgcata cgcatacgag cggggaaccg cggttagggg cgaggccatg gaggatcatg 720
 aaaagctgat gatatcgaaa tgttggcccag gtgcttttga gcttctcctg acctggatac 780
 ttggacccta ggctgctagg gctatatgtc ttcaggtaca ctgcgagtct ccatagaacg 840
 cttggcatct tctcaacccc ttgtctttga tcagctcact ctcatacact aaggtgtcag 900
 ccctattgca tttcttcaga cagtagcaat gacagatgat tatttcgcct cggcaaatca 960
 gcctgcgata ccttaataat ctccactcgt cgtgaatgtg gtaactgtcg catagccctg 1020
 cgccactttt gaactaacct gaccatcaa ccaccgaaat ttccgtatcc aatcatctac 1080
 aaggtgtcag gtctggggta aatgaacaat aatcgccctc caatttcatt gcaaggtctc 1140

taggtggtcc cttcggcgcc aggcgggggtt ggcctggtta acggaagaag acccgaatgg 1200
caactaagga gatgattagt tgccgtcctt ctgcattgcc aacgcacact tgggtctgtgt 1260
gttggtctgat gagctggccg cctctaaagc ccaccgagtt agtgagctgg cgacgcgata 1320
ataaataggt cgcgttcctt ggtgactggc caatttatct tttgctttct tggattttgg 1380
ccttcgcgt cagaatttcc tacagcttgc actactttgt cgtcgcatte gtcttatagg 1440
ctgaaagcct gcctagattg actggattaa atacaaaaca tgctttgctt gcatgcatct 1500
tcaaggaatc acagattgaa tcgcagaaaa aaaaaaaaaa taaacgagtg gcataagacc 1560
gcccagagatt ggacaatgat actgaccag gcggaaaatc gtaagacatc ccaaaatgca 1620
atcatatcgt caacatcata attggtgggc tgcggggccac agtcttggtt tctacatggt 1680
catagggcgt tcagggcatc agagcgttca aaagtcaaga cggagccgga acaagccagc 1740
ctgccaacc tcatatgtta ggacaaggac gttagctggt caccggctag ctgcgcgaat 1800
cagccagtgc aagaccggt caaggtttgt ctctctttt gcactgatgc cgtagcagct 1860
cacttcgcgc cgcgtgatcg atttcagatt catctgttct atcaggtcgt caacagatag 1920
cttgttgggc aggtcggatt tgtttcccag aaccaggaga gggattccat ccaaggtggg 1980
cttgttcacg agtcctgca gtcctcagt cgccacgggc agagccgcc tgtccgcggc 2040
gtcgacgata taactatccg atgtcagcag tgtcgcaatc aatcatcgat acctgtctta 2100
cacgatcgcg ttgacgccg gcgaataacg ctcccacatg ggtcgaaacc gtggctgccc 2160
accaagatcc caactgaggc ggtagagag atgccctgga tgaatgcagg ttcacgaacc 2220
atttgagcgt cacatgtcct ttttggacc gcttggtatt gaagccgatc gttggaatag 2280
agctaaccga ctcgacttag ccagggcaca agagccttga ggcacttaa gagagaacct 2340
actctatggt gaatttcct ccctataccg atcatagacg ttagcgatct aggcaacagt 2400
ttgggtctgg ctagtaggga caggcaggac ataccgcgag cacacgcaac agcgacgact 2460
ttccggcatt ctgaagaccg atcatggtaa cgtccatctc ggtcgccctg cagatgcata 2520
actggactca gccagccgaa ctctggatac tgcggggacg ggccgggggc tctggtattg 2580
gaacatattg gaacggcggc ccacttacca gaacatctc aagagccagt catagatcgt 2640
ccggaaaata cccgccatgt tcgtgacgtt tcaatgagaa ccagatgaac aaaagagatg 2700
acgaactggg gtggaaggac tggctgagaa gtgcagctcg ttccaaccag ggtcggcggg 2760

atatattgag atcagaattt tggacggcga agtgggggct cgagcagaat gggttgcggg 2820
 aaaaaaaaaa gggatcctcg ctgactgctg ctacaccggc ggcgagcaga cgaggtgcga 2880
 gcgtagtcaa ggtgacaggc gaaacttaat agaccgcga aatggtagaa gagcggcgct 2940
 gaactctgac ctctggcctc tgaagcgccg cgagagtcaa cgccagatac ggaatagaca 3000
 ctgctggaat gactgagaac ggccccaaga cctgagcgcc aaagccagcg gcaatcaatc 3060
 aataagagcc tggaatccaa acttcgttc 3089

<210> 2056
 <211> 8953
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2056

cggagacgga aaaccagggtg ggccttgttt tacaacccaa gggtagtcc cactgggtag 60
 ccgcgctgag actgggaccc tttgtacgaa agcccaaggg aagaatatca ggagggtata 120
 gccatggtat cggaccacat gaggcaccaa aagcagcatt gcaaatacatg acaaataataa 180
 cggttaaggga tgggtgtggct tcaatatgga taaaaatgaa ataggaaatt gcccaaagag 240
 aaagaactat agccaaggca ccggaagaa gaatgggacg cctttcctaa ccatccacaa 300
 gataccaagg aggaaccgtc gacgccaaagt aagttagacc atttattccg gtcattgagga 360
 tggcatcacg gcccgcccaa ccggcggact cgaagacaag cggcgcgtag tatgagatga 420
 cattgatccc gttcagttgc gcgagtgtt gtgcggacat tgcaataagg acacgtctgt 480
 tgtacctttt gaacatatca acgtaagatc gttccccctt ttgacgtgta ataagcacgt 540
 tcattttgat ttccctgtac tctctttgag cctcgggatt gtgaagatct cctttaccat 600
 agaggtttgc aatgactacc ataccctctt catcatgatc attatccaat aaccacctac 660
 aattagggtg agcgttagag ccaatttcac gaattgcgcg ttttcgagaa tcaataaagg 720
 ccttacctcg gcgattcgca aatgatgaga cttcccaggc caagtaaaaa ccccatgata 780
 cactgcaaaa gcagcgggag acgccaggaa aagtcgctgc gaatgaaact gcaaaagtaa 840
 tcgacccaaa cactagcagc atatccgaag atatttcccg tgaactcaat acatgccaat 900
 ttgcctctat tgtgaggggg ctggtgatca aaaattagca tcgtccatag tagccttctt 960
 gattagggtg atgagggtgaa ctgtaccgat atctcggact gatataccgg gacaatagtg 1020

gacaacgctc caacgcccag accggcgact atacggccaa gcatcatcat aggtagcccc 1080
gtcgcaaagg tttggaaagc gcctcctacg aaaaacacca tggatccata aaggatgggtt 1140
ctgcggcgac caattaagtc gccaatTTTT ccaacgagta atgaggaaat gaaggcccca 1200
acttctaata ttgcgacgac agtgccaatt tccgctcgcg acggttggtt gaagtaatcc 1260
ttgaagtaca agcctctgtc tccctgtcag taaagatagt ctcaatttgt acttcagcat 1320
gcatgcggga agacgaacgt tataattccc gacatcacac cctgatcata accgaaaagg 1380
aagacaccta atgacacgaa tacactcgtg aagtaactgt agcttattag tggcctagtc 1440
tagaaatacc agggtagcag ggttcctcac agcaatggct tcccaactaa gccatgcgtt 1500
tgagttgatt gccggctgcc aggtgacatt atgacaacga taaagcgttc aataccagat 1560
atatttctgg gtggtggttg tgggatttct attttctcaa gatcaaagtc gccagcgggtt 1620
tgctgtcctt ggtagtgcac acgtttcgtc cgtttcgtcc gtgccctcga tccggctcga 1680
ccggaccccc cagcaccag ggaatttatg aggcggattc ggagaggatc ctctgcatca 1740
gcgatttggt cacccaaadc tccagtatcg gtccaaagcg agaaatccgt cccaactgag 1800
tgagctgagg agatagaaga gcgacggctg cttttctcgc ttgcagattc taaggctcca 1860
gcgggcagat tctgggactc gaatcgtaga ggtcgcaggg gtatggttga ggaagtacgc 1920
ggcgacgacg gcgacgacga cgttggttga ggaatggttg cggttgaggg ctgatgtcaa 1980
cagccctgtc gttggtgggg aatcaaaaag ggcggatgac tggacgtcaa agttggggta 2040
tcgataaccc ttggtcacia aaatcgtttc ccgccgtgag agtttggacc aaagaatcac 2100
attaaaagag cagatgaacc aagacgcctt gttggcggtc ttgtgataga gaagtaacaa 2160
aagggaaact tgaaagttgt cctgcactag aaacaatcta ctgcaattgg acgcaggcga 2220
caaattgaag cggagactcg tgaacaatgt ggattgcaac ttaacgaagt gtgaacaaat 2280
agggaaagca atgatggtgg tcttttgggg tttgctcacg agacgagatg accagcaatg 2340
caggatgacg gtggtttctc tcgaggttgg ctagctaggt atccagccaa aaggagacgg 2400
tcaggcggga ggcactagcc aacaatgaag atctgactct tgataggcct ctcacagagc 2460
gttgaatatt acggggtaaa ctagttgcgg cactccagtc tcccaggtcg tcagacactc 2520
tgctgtgggt actcgtaa atgaggccgc ctaaggctaa tttcgtccta aagtgtgggt 2580
cttgactgct ttgggtgttg ctgtgacgat tgcatatgag cctgagctga gccccgtca 2640

ctgtgttcta tgctagacag ctactttgca taatccggac agactgctac cagacgacta 2700
 ggtaacgatt tgggagtagg tgggtggtgtg cttaaaccac atacgggtgcg gtgccactgt 2760
 gccaccgccc gaaactgccc gttggatttg gtggggattt tcgggcagtg cctatggacc 2820
 atgaccgatc tcctggtagc gtagtattag tggaccatac cccctcaaact actgcgacgt 2880
 accccgtgct tggtaacagg aatcctccat ggcaccgggtg ggggtgggggg aaacaacgga 2940
 gccgatagtt agcagcaata gataggaccg caaggatata tgcgcagtta ttatcccaat 3000
 ctctatgaac tgttgtaagg atgcgaattt cgggtgggcct gtcctatgac atcacaagac 3060
 tacaattgta cctagatggg atcgtgagta agcgatactt atggggtagt attggagtct 3120
 ctgtagaagc ttgtctcacc atgaattcag gcctgataat aaagagaaag gagaagagac 3180
 gacatacttg tgctccaaaa cttgattaaa gactatcgta tctatgtcta gtccatctac 3240
 aaccggcccc acataatact cgaaagagtt tatacattaa tgggtccgcta aaagatacag 3300
 ccgagcagta aggctcccaa gggttgatga cgcttcttta tacagccaac gaagcgcgat 3360
 tatgtgaagt cttttgacag tttgttgaga agcgcttcac ccttctacca actcgtgaagc 3420
 gtgcgacacc acatgggatt tgctgtgcag actgcaatgg gctgtaattt agcagataga 3480
 gtgtgggaca tgccaaaaga actttgaccg caccaaataa gtcctcaact tgagtcccaa 3540
 aacccataat ggggtgaattt cacagatgag aagaagcgtt atggcagcag aatatcgtag 3600
 ccatcttttc gtatatatgt ggcatctgcc atgcttgcat gtttgcggcg cactaactcg 3660
 aaaatcacga gtccggcact tgtactagga acttgacgaa ggggtattgcc caagaaccct 3720
 cgataaagcc atctgggtcca gcctccagcc cgagcagcct ttcttatgca ccgcttataa 3780
 gtttcctggt acgctaagta gtatatctgc agcatttgcc ttctcgaagg gcgtaaggct 3840
 gcctgatggt caaggtatct caaccgtgca atgtgaatat tttgtatcgc attcagtggg 3900
 tgttgatga tctgctgggc gacagacgcg agaaggcccg cagctaataa gaaacatggc 3960
 tccagagcat aatgcggttt gattagcggc actccacggt cgctggactg agatgactgc 4020
 agatagccca ctttttgagg gcttgaggac ccataatagc gagtaacgaa ggagtagtat 4080
 gcctgcgatt tgatgtactc gaagaaagaa aagaagacgg cactgccgaa agagtcgcgt 4140
 aaaaatgaca gactccagcc ggcgaaaata ccgcgtaccc cgatttggtg tagtttgccg 4200
 tggccatagt gccacatgct ctgataacgg ccttcgataa tatcgctggt tctgaggcgg 4260

acttgagag catccagggg ggcagctaca acagactgaa ttgagccagc caccaaaccg 4320
 gctacaaaag tatcgatcgg gctagctggt gggatatgtac gtctcacacc ttgcgacaca 4380
 ggctcgtaca aagcacctaa aacttgaaga tacgaagtat acagcacagc tccaacccta 4440
 ttacgacatt cagctgcact tttcgtcttc gcccgggatt ttcagtacac ttaccagca 4500
 ttagccagca aaggggggtac aacctgattt ggtatgaacc gccagccata agcggaaca 4560
 gcatgaatga gtagaccgg agtagtggtg tgtagggacc agcgaccacc ttcagataga 4620
 cgtggggaaa cagctcgagc aaacgcctaa caaaaaata attgcattag tcgtcgtggg 4680
 ggcaatgccg aataagaatg agaaaggat caggatatgt gtaccatgta actgtgagga 4740
 aaacaaaaaa aaaaaagaa ggctgcatta gcctacagca aatgccggaa gagaagcagt 4800
 tgggtaccta ctcaaccgt gtgcgaaaga acgcctttac agggattctg aaataaaaag 4860
 cgacaagttg cgcactaaga gcacgcacac cagcggctga agcgctgtt gccgcattgc 4920
 tccgcggtt tctgcgggtg ctggagtctt ctgaggctga cagtccgccg tcactttgta 4980
 tctgctggct catcgagtct tcgggaagaa cgtccatgtt aaactcgagt ccgtcgttga 5040
 gcgcaaacgc tgaagttcaa taagatgatt tggagcgctc aacattggcc ttaggtagaa 5100
 acattgtagt gaccggcccc gcatataaag gtgatgcaaa aaggcaaat tgtacgagat 5160
 gaggcagaga tggctaaagg attgagtccg gatcggaat aactgcaaag ttcatacatc 5220
 tcttgatttt tccaagaaca aagataaaaa ggataaatc ctgcttaca cagcgacgg 5280
 tcttctataa tgctgtgcaa acaattcaaa cattctgatt ccgctaaaag ctaaattgca 5340
 aacgccaatc caaaagttca agacgcgcgc catctctcgc gtttactccc attgcttcgc 5400
 attcatttat atgcctaaaa aatccacaag gataacaggc tttatcatc tgaacctgcc 5460
 acaaccatta catatcattt aagcaactta aagtgtttt ccgtttctgc ttctacttt 5520
 gctaccaaga ttcaacttca cgaactcgtc taagcatcct ttaaccctt agtccttgcg 5580
 ccaacggcag gtccctggag ccacggcgcc gctttgggag aaggcacatc atgggcgacg 5640
 agattgtcat tgataaaaca gccttcttca atcgtctctc gagcttctat gcagcatgga 5700
 aggcagacaa acgatccacc aactctgtct ttggcggtgc gggatctatc attatcctga 5760
 tggggaagac ggatgaagca aacagctatc aaaagaacaa tgctatacat gtatgctgct 5820
 tacgtcgtcg gttacttatt atatctactg atacttttag ttttggttac tcggctacga 5880

attcccagct acacttttctg tcttcacacc ggaggttatg tacgttgtga caacagcgaa 5940
 gaaaggtatc acctgatctg aacaaggaat agcccaggaa tcctctctcc ctaacttcat 6000
 gacagccaaa catttagaac ccttgaaggg tggaaagatc ccggtcgaga ttctggtaac 6060
 gactaaggat caggaagaaa agacgagatt gtttgaagag tgcgtggata taataaagtc 6120
 cgctggggta tgttttctat catgtccagg gatcaagatg accatgcgtg gttcgttaac 6180
 ttccgacgct aacaagctat ctgccaacag aataagggtg ggatcttacc gagagacaca 6240
 accacaggtc catttggtga agactggaag cgcgtatatg gaaagatata cggcgatgta 6300
 gaagaagtcg acatttcgcc cgtcttttca gccgcatgct ttccgggtcaa ggatacggat 6360
 gaactagtac gtctattcac ttacaacgtc gataaaagtg gtctaaagtt ttgcaggtgt 6420
 ccataaggaa tgcattctaga gcttgcagtg gtctgatgtc cgattatttt gtcgatgaaa 6480
 tgtctcgctt gctagacgaa gaaaagcaaa tgacgcataa agctctatct atgcgtattg 6540
 acgccaagat tgatgacgct aaatttttca acaagctcgc aaaactaccg tcggaatttg 6600
 atcctcagca aatcgattgg gcttatggtc ccgtcattca gagtggcggg aaatatgact 6660
 tgaagttaac agctgtgtct gatgacaaca atctggaacc cggaatcatc attgctggat 6720
 tcggcattcg ctacaaaacc tacagttcta tcattgggag cacctacctg gttgacctga 6780
 caaagtccca agaggcaaac tattccttgc tcctaagtgt ccatgaggct gttttgaagg 6840
 aggctcgtga tgggtgtggtc gccaaaggagc tctacaacaa ggcaattgga attgtgagag 6900
 ctaggaagcc ggaactcgaa tcccacttcg tgaaaaatgt cgggtgctgg ataggtattg 6960
 agcttcgaga ttcgaaacatg attctcaatg ggaagaacac ccgggttttg aagagtggga 7020
 tgacattttc tatcacggtc gggctggtgg atgttgaaga gccgagcgtg aaggacaaga 7080
 aaaagaatgt ctattcaatg atgatcacgg acaccgttcg ggttggagaa cagggacctc 7140
 acgtattcac caaggacgag ggcattgata tggactctgt gtccttctat ttcggtgacg 7200
 aagaagagcc acagaaacct gcaaaggaga agaaagaaac caaatcgagt gcgattgcga 7260
 gcaggaatgt cacgaggaca aagctccgag ctgaacgtcc tacgcaggta aatgagggag 7320
 cagaggcgag ggcgcgag caccaaaagg agttggcgcg taaaaagacc aaggaggggt 7380
 tagaccgatt tgcaggtacc actggcgatg ataatggagt cacgcagaag aagttcaaga 7440
 gattcgagtc ctacaagagg gacaatcaat tgccagccaa agtcaaggat ctcacagttt 7500

atgtggatca caaggcatct actgttattg ttcccgtaat gggtcgacca gtcccttttc 7560
 acatcaatac catcaagaac gctagcaaaa gtgatgaagg ggagtacgcc tatcttcgca 7620
 tcaactttct tccccagga caggggtgtgg gaaggaaaga cgaccagcca tttgaagatc 7680
 tgtcagcaca ttttctaagg aatctcactc tcagatcgaa ggataatgat cgatttgccg 7740
 aggtagctca ggatattact gagctcagga agaatgccct gcgccgtgag caggaaaaga 7800
 aagagatgga ggatgtggtt gagcaagaca agctagttga gatcagaagt ttgtcaccct 7860
 tttatgacat atgcttttga aactaatcca gagtcagatc gtcgccccgt gaagttgcct 7920
 gatgtttacc ttcgacctcc gcttgacggt aaacgagtac ccggtgaggt tgaaatacac 7980
 cagaatggtc ttcgctatgt ctctcccttc cgcaacgaac acgtcgatgt gctgttcagc 8040
 aatgttaaac accttttttt tcagccttgc gctcatgagt taattgtctt gatccacgtc 8100
 catctcaaga ctctatcat gattggcaag agaaagacta gagatattca gttctacagg 8160
 gaggtaccg agatgcaatt cgacgagacc gggaaccgaa ggcgaaagca tcgctatggg 8220
 gatgaagaag agtttgaggc cgagcaagag gagaggaggc gtcgggcagc tttggacaga 8280
 gagttcaaag catttgctga gaagatagct gatgctggca aggatgaggg tgttgatgtc 8340
 gatattcctt tcagagaaat tggtttcacc ggtgtcccta atcggtcgaa tgttctgatt 8400
 cagccaacca cagatgcact cgttcaactg actgagcctc ccttcctggc catcagtctc 8460
 aacgaaattg agattgcgca tctagagagg gtgcaggtaa gttaacacag atattctagt 8520
 cattcaggcg gggactaaaa tgctgtacag tttggcctca agaatttcga ccttgtcttc 8580
 gttttcaagg acttcacag ggcaccagtg catattaaca caattcctgt ggagaatctg 8640
 gaaggtgtga aggattggct tgattctgtg gatatcgct acacagaagg gcctctcaat 8700
 ctgaattgga ctacgattat gaagacagtt gtcagtgacc cgtacggctt ctttctgac 8760
 ggtgggtggt ctttctggc tgccgaatcg gattccgaag acggctccga tgaagaggag 8820
 gaatccgctt tcgagctctc tgagtcagaa cttgccgcag atgaaagctc agaggaggat 8880
 agagactacg atgacgatgc tagtgctgac gatgatttca gtgcggatga agatgagagt 8940
 gacaggactg gca 8953

<210> 2057
 <211> 2295

<212> DNA
 <213> Aspergillus nidulans
 <400> 2057

```

tacctccctc tacatatctc tacatcagct tatectcctt aaagctctca ctacctatct 60
attctgccaa cttattctag ggaggccctc catcacaagg ctcaatcacg ctctagacga 120
agaattggat tccccgcact cgtgactttt agtcatcatt ccgagggggc acccccgcgg 180
ctacaatgag cgcaatcctg tccgcagacg acttaaacga tttcatctcc ccaggcgtcg 240
cttgataaaa acccgtcgag tcgctcccac agaagcagtc gaatgaggta agttagtaat 300
caatctgctc gcggggtagg tattgattgg agtatgaata gaatccctac gaagtcacca 360
cagaagacaa agtgcaacca gaaaatcccc ctccagcgca gatctccctc accgattgcc 420
tcgcatgctc cggttggtgtt acgtccgccc aggcagtgct catctcgcta cagtcgcata 480
atgaggtcct caacaccctc gatgcgcaac ccgagattcg actagtgagt ggcgagaatg 540
ggacagtcac agaggacagt gggagaacaa gagacgaagg gcggattttc gttgccagcg 600
tcagtcctca ggtacgcgag agtttagcag ctacatacgg ggtttcggag aaggaggcaa 660
atcatataat acatcagttc ctccagcgac ccaatggttt gagggcaggg ggaaagcacg 720
gcagcggttt cagctgggtt gttgatacca attctctacg cgaggcagtg ttgggtctga 780
cggcgagcga agtcagcgag tcattgacgg gtcctcggc gcctaaacga ccgattcttt 840
catcagcatg tccaggttgg atctgctatg ctgagaaaac gcatccattt attcttctc 900
acttatctcg gttgaagtca cccaggcct tgacgggtac tttcttgaag acagtaatca 960
gcaagaagct cggtgtacct gcttctcgga tttggcatct atgaattatg ccttgttttg 1020
acaagaagct tgaggctagc cgagaagaac taaccgatgc cgactggaat agactctcat 1080
cgggggagcc aaatacgctt gttcgcgatg ttgacttgcg tatcacctga cggaactac 1140
tcagcttagc gtcattctga ggaatttca ctgtccaacc taccaaggaa gagcctttct 1200
tagtcgcttt cgctaccttt gccagacca gtacttaacg ttttctttt ctctgagaag 1260
tcgttctcac gacagacaag cgcctctggg acctcaggag gttacctgca taatgtgctc 1320
ctgtctttcc aagctcgca ccccggcagc gagattgtca ctcagcgggg tcggaacgcg 1380
gatgttgtgg actacacctt gatgtcccct gaaggtgaac cgatactgaa agcagcccgt 1440
tactacggct tcagaaatat tcagaattta gtccgaaaac tcaagcccg gcgggtatcc 1500

```

cgctgcccgg gggccaaggt agcgaccgga caaacggccg gaggtcgacg gcaaccaata 1560
tcacgaaacg gagcctctgc cgggtcgagc atggactatg cttatgtaga ggtcatggca 1620
tgccctggtg gctgtaccaa tggaggaggt cagatacgca ttggtgatgc gaggggaattc 1680
aacgcgcagc acgatgcttc agtgacgtcc gaaacctcaa agcccttacc acatgagcag 1740
cgctcctggc ttgctcgcgt cgatgaggct tactactcag ctgattcaga tatggatgac 1800
gcggtagagg atgtacgaac agtttcagtc acagataacg aagatagagt ccacaagacc 1860
ctgcagcact ggtctgctat cacggatatt ccacttgaaa agctggccta tacgacgtac 1920
cgcgaggtgg agagcgatgt cggcaagcca agtgcaccga atgatacctc gcggttgg 1980
gagttggcag ggaaaattgg tgggtggttg taggtcggag tcgaatggc atcacgcttt 2040
acgatcgata tatacccttt gtactacgtt tcgcattggt atactgcatg ggatggtttg 2100
cataagcata gatttagagc gatacaaaa tattcttggg tcttgctttt atctcgtgat 2160
cctacagtat tgatgtaaag tgattccaaa atagagttga ggctacaggg ctgggctgta 2220
aagaggtcat gtatgaatgg tcaatggagg agcccgttta aagcgcacct cagttgtgcc 2280
ttctctcgac tgtcg 2295

<210> 2058
<211> 2654
<212> DNA
<213> Aspergillus nidulans
<400> 2058

ccttgttata tactgaagag gagatggagg gcactgccga gacatcatct gtcacgaact 60
ttaccggatc taattggcgc caaccagttc atgctgctaa tacctcggac aggtccgcat 120
ctggccacgt ctcttccatg gatggaggac ggtcaccaag gatggaccct actcaaggta 180
aggatgttcg ctgtactttc tttcgcattg ggtcagctaa cctcttaatg tagctatcgg 240
ctgggtctctt agtaacgcaa ccaattcctc gcagcccaac cttagtctcc tctaccagat 300
gcctgctgct caagcaaacg aacgcgtttc taatagtcaa tctcacgctt ctcgaactcg 360
ccatggctac cccgatgttt cagttcaatc agacatcgag caaagctcga gctcttatgc 420
gcgaaacact gagcgcacaa atatttccaa tgtgggtcat gatcatttgg tttctccccg 480
ccgagtcgca gcctcggaag taaatcttct cgggtgtaa atctcatatc ctcatcctgc 540

accgcggcct ccgaattctc agtcagcgca caatcagagc attcaaactc catcttcac 600
 aggctcaac cctcaagtgg cagcatatag ctacttacca tctactacag ctgatcacca 660
 caccagtgat agccacatgg catcaaggca ttctgatact cattcaagca tgaatccgca 720
 ggccggcgat ttctaatcg agagtcaaga catcgatatg tctgcccttc accaacaaga 780
 ccagctacct ctcccttca ctcaattacc ttggctggag tatttaccac aagatgttct 840
 cagctacttt ggccaacacc aaaacttccc tctcatgagc actaatgaag gtgctcctcc 900
 tccgcctcag taaaactaac tatatgtgtc acacacagtc aactcttacg tggtatgtc 960
 agcgatgtca ttgatatgtt acagtcaagg gcgaaggtaa ccatggagtc tttagggtcat 1020
 tacatctttc ggcggttgaa tatgatgagc gcacaccatt ggtactgctt tcttgatca 1080
 tatacatata atctaccagc gtttggtgca tggaattgac tttaaattatt caatctatat 1140
 ctactttttg gtggtcgct gtcatacttt gctaagagaa ggtctattta accgcggcgg 1200
 cggtgtgcgg ctcaactcgt agttgtattc gtgatggact cggacgtaat tgtacacca 1260
 acagctctta tatgtttag gaatcaagat atcctctatc gtaaggatga atgagcggaa 1320
 ggattgtggg cctctacatt gtcccttgt ctagatcgga gcctcaggct cgctccggtt 1380
 gccagagtaa cccaccgcc aacacatcaa ctgacaccga ctatcacctc gtgaacttga 1440
 atgggtatca actctttcga gttctggagt gccaaattat gggctctggc agtatcattt 1500
 ccttgattca ctacctaag gggcgagtac attgatattt tctgtgtcg atttcgctgc 1560
 agtaggtctt gttccaagc cggtgttttg gctccgtact aaattatata tagttggcta 1620
 gggaaaacac gagtctatac aaatttagct aatacaagtc acgactgaaa ggcagatgga 1680
 aacatcagta gactctcaga ctatacatct caaggagaaa gcgaaccaa gcatgtctga 1740
 ccatgaggcg actacgattt ccgcgctat ttcagaccg gccaaactcag aaaaacaatc 1800
 ggagcacagc gatgaaagca gttttgacag aagcatgcaa gttgcagcac aagacagcgg 1860
 gtataactct tctggatctt caggccacca ttctctgtc ggaacacaaa atggcggacc 1920
 ggaggaaggt gaacttgctt ggatacggtc gagaacatca agctgtactt cgatttcctc 1980
 aatccctgct tcgacattga ccagcccggc aggtgagaat cgacgaatga atatacgca 2040
 gggacaggac tatatggcac agccgtggga ccatcacgta ccgcagctcc gtcatacgat 2100
 ccgtcagcgt gaaggtagat ttcgaaaacc tagctcggtt agggcgctgc aatgcatac 2160

ggaggatgag ggcgatgatt attaccatct gacaccgcct aaacgccggg gtagccaacg 2220
 gacttccgat atctccattc gctccgctgg ttctctgcgc ttcaagagat ccccgttcta 2280
 ttctccaacg ggagcgaccg cgaagccgaa aatcaagaag gaatatcccc ttgttcttct 2340
 tctactgtacc ctgctgccac cgtcgtctacc tgtgtctggt ttgatagaac atccgaaccg 2400
 tcagaatatt ttgaaagagg gcttgccctc ggtgtactgg aggaggtgga aactactcga 2460
 ggagaagacc ggggtctggcg ttattcgtga ccgtggtatt ctcatctccc acccggaaga 2520
 cggatatgac cttcttgaag agcggttact agagagcttg gaactacagc acccccgggt 2580
 agaccatggc caatttatcg gacacgatga aacggagtca gatggtgaag accgcttggt 2640
 accggaggat agcg 2654

<210> 2059
 <211> 2140
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2059

ccagaacgcc cagaatgtgc tgtctaagaa actcggcggg agtctgtcac tgttctgttt 60
 tcgttgacaca ctggtggcgc gtttggagaa gagcttcatg aacgccacgc ggcggtggac 120
 attcaagtat acgcagtctg tcggcatgga caggagctcg tcgttgcggt gcaccaggaa 180
 ctgcgtgtgg gcctttctgt cttgcttctt cttgttcttc ttctctccct tctccttccc 240
 cgtgctcgac cccgattgga cctgctcaaa ttccgcgttt gccttttcga tctcatcaat 300
 cacagaccaa ttctcattct gtacggacgc aaccaacgca aggagtttcc gcagcggtc 360
 gccacaggt accggtgaag acccggcgaa ctggtcgtag cccgaggagc agtcgccgtg 420
 gttgtgcagc gcctggccga gagagccatg tgcgtcaagg atgtggactt tttgtggcgg 480
 aatgcctgcc agttggatta ggtacagcgc ggacgcaagg gctgcggtgc cgctgccgac 540
 gatccaggct tcacgttggt ttttggaggg ccggttttct tgcgtagagg ccatgctgat 600
 tactggcgat gatgcgtggt ctttattaat ggaacagggg gagatgcatt atgtacacgg 660
 atacaaggta taagtagctg gaaattatca ggggttagat tagtttaaaa ataattagtg 720
 gttgaagaga aggacttata gtggtcgctc tcagtacctg gagagctttg gacaggtaac 780

cggtctatg gtccgcgtga gcgtttacat tgggggtctg atatcatcaa gacatataca 840
 gcgaccatgg gttcggttga caccgtacga ggtctggagc ccgggaaaga atgggtagac 900
 cagatgcgtc ttttaattga ggggtccagc tgtcctccac tgatttctgg catttgatt 960
 gactatgtta ccatgcatct cgctgagatt ctgctcacac atatggatgg gtgaatagtc 1020
 gatatgcggt gtcactacct gatatagctt caatcgcta ccgtaattgc aaatttgtaa 1080
 gccagcggca atgcaataga gaatgcatat gcaaagaact ataagcacat ctggccatcg 1140
 tggaagtgga cattcttacg gatcaagctt gccatcggca atttgcagaa gaataattga 1200
 ccagactcag agaatcaata gctacctttt tacaagagca aacattagga atatgatatt 1260
 ttgttatttt ctccataaca aatattgatt cctagttaca aaatagccaa tacatattat 1320
 ttagtgtaca caaatacaat tactctcat attctggctc ctcatcctcg agctgctctt 1380
 gtccctgctg gttgtacttg gacgcactgc cttcccgtc cgcgacgcc ccagcgtggc 1440
 cgccgacctt gccgccctca tggccagcct ggtgcgggtc gactttgccg taggcgaact 1500
 ggtgctgctg cgtgcgcttg tctggctggg tgtcttcacg gcggccgccg tgctctgcat 1560
 ggatgtcagt acttgaaagt tattgagaag gggaaagaca tgggatatgt accgctaggc 1620
 ttgtacttct cgccggttg tgttgagcct tggaccattt ttgcggtttg ttggtagatt 1680
 ggtaagagag attaagagt atgaattgat tgggaatgg ntgnnnngat gggaatgggc 1740
 ttgttaatcc aatggagagg gagctggtaa ctgcggcgcc ttaataccag gtagaatact 1800
 tttgcagggc aataagccaa atttgcacat ggccggagga catgggtttc catgccgaaa 1860
 gcgctttacc agtctgtga aagaactcag gttccatta aattctaacg aaatgaagcc 1920
 cggattgttt tggaacgggc caaactacct gggcggttcg ggtttccacc tattgttttc 1980
 cgggacataa aatcactaga caatttgcaa catttttacc aggggttaaa aaaacagtct 2040
 gtgttttaca caaaaaatac tttccaaagt cttctctca acacctctt attgttcca 2100
 tctatcaatt accaaagtct attctcttct tccccctata 2140

<210> 2060
 <211> 1819
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2060

ctccctattg tatcatcagg taccagaccc tcccgggcac atagactcaa gtacctacag 60
 gatacgcatg cccacatgta caagaatgcg caggctgcc a ttcacatct tagccttgat 120
 cgactcgtag tactccttga gcttgccat gtctgttgcc tgagcaggcc atccaattcc 180
 aaggccttcc tctcgttgg gcttggggat ctgtaaaagt aaggtttagt acagtgaaat 240
 gaataccagt agctgaacgt accatgtgga agtggacctg caaaagcggt cattaggttt 300
 ttggaaacga ttaggacagt acagtgggtg tggagctgtg caacatacat gatcaacaac 360
 ctggtgcgca atacgaccat tgttttggag aacattgaag tcagttgcgc cggttacttg 420
 agcgattttc ttagcaacgg gctgtttgtc gtcactctgt agctctctcc aatatgaagg 480
 cccatttgaa aagccgtgga tgtggattga gaccggtaat gcattgggcg ggaaagggtcc 540
 tgggggtggc ggagtgtatc ccgcaaggta cttggattcc gcataatgat atatattgaa 600
 ggggtaggta tcatcgggtc cttcatcatc cgctatctct ccgcatgggt acgtaccagg 660
 atttcagtga ggtgggtcatc ggggatatcg gtgagctttg cgccgtggta cttggggatc 720
 acgagctgtt gaacagtttg cgctgttagc ttcttctcga catccacttt acggaagccc 780
 ctacgcggtg gacgtgttat tcaagaacgg ggagtgggcg tgcttaccgc atgtccacga 840
 ctgagcggct ggatgtcgag gaaagcgaac accttgtcgc tctcgaagag cttgaaggaa 900
 ggtatttctc ctagttggag ttagtttcac gcattgaaac catttactgg cttcttccag 960
 tgcgagaagc gaatgctgtt tacccttgat gattctgcag aagatacagg cggccattat 1020
 tgcgacaggt gggaatttctg attgacctag cgaaggagga ggcaattgag cttgaagtcg 1080
 tcaccaaaga ccgatgcg ggttggcggt atcggaccgg aagggtcagt cactacctg 1140
 caccactcta cactcttctg ggaagggtgc tcgaacgctt cacttggaga accagattcg 1200
 gggatttctg aaggccttgg ccaccgaaaa ctttcttctat catggtttag atttgctttg 1260
 ttttgtttat gatttgatag caatgccgag tccaacatct aaccccgctt cggataaggt 1320
 atgaagctgc tatagttgga gtcgattcgt ccctagggac cttatcatcc ctcaatgcac 1380
 acttggacat cttcttctct tgtcttatat ataagattgc tacactccgc cagtgcact 1440
 cgaaatggct ggtttcctgc aaccgagagg ttctgttgca agcgtaatca aactggcatt 1500
 ccgatctacc cattttctcc ctacacgagc cccatcttca tatctacgac gcgcattttc 1560
 cgtctcctca agtttaccga tgttatctac agagctgact gaggcgcaag tgcggcttt 1620

gagagccaat aaagaacgcc ttgcagaaga ccttcatcac acctgtcaat ggggggtacgg 1680
aattcgctgg ggagagtaag tatagtctac cggccctcgt ggcataaaga gccttcatca 1740
atctcatggt aatttagtgg ccacacggac acaagtatgc agcgcttagc gcagtcacag 1800
gaggataagc aagtacggg 1819

<210> 2061
<211> 3220
<212> DNA
<213> *Aspergillus nidulans*

<400> 2061

atggctcatc tgacggaagc caagagactc gtacggcatg gacgcaactt gtttatcctg 60
gaggtagcgg atgagatcaa gaccagtcca tttattgcc aagacaactc gcacggggat 120
catattcaaa cagggcccga cagtatcttg aacccagga atggatgcat tgcgtccatt 180
aacagtcaag ccgaagacaa cgtcagcatc agcagaaagc ttggccagcg ccagagccca 240
agcggcctga actaggggtgc caacggtaat gttgcggatg gtggagttct gagagatatt 300
gatcgtcgtc cgaacttctg cataagtgcc catcgtctga tatgtgtttg gatgggtctct 360
acagacaacg tccgtcattc tagagccctg caggagcttt gtccaatatc catagtgttc 420
cgggggtgatt gaacttgga gacggcgcac ataattagcg taagacatcg taggaggtag 480
agtgcgcctt tcatatcctt gcttgatggc atcaggagtc ttggagatgc acattccatc 540
gtactgggca tgggagagtc gaataaggag gcgggtgctgg gtcgtccctt tgcgtttcgc 600
tagaatgaat tgaacgaact gctcgccttg gcgaagaccc tgatcgcgat cccgttgctg 660
aaggctggta gtgaacgtgt ctagatcggg atgggtctca tatatgacga tggatggccg 720
gaccttcttg agaatgacct gatagaagtg gtccccagag catacaaaga cggttcgcag 780
gatatcgaac gcatccacaa cccgggcaca actttctcgg aggcgtttga cgtcaagctg 840
gccttcccca tcgagataga agtagttgag catccaccgg gattcaaaca attgtgcggg 900
taaagacaga gcctggaagt ccgttactgg aaggacatcc gcaattcccc ccttgaaaaa 960
gccgattttg gggcagatat cggactgaag aacgtctgac tcgatttctg ggttgtgggc 1020
cagttgtaga gactggctgg atatcaccct gcctgagatg ctgagctcgt ccgcgctctc 1080
gtctacccgc tgagcctgga attcgtcttc ttcaatagac tccttcggtg ctacaggggc 1140

tgcgtggaca atgtttgtgg agcaaatgac cgccagcatg tcttcaaaga tggggttgcg 1200
 gaagacgtca gcaacggtaa gcacaagccc ttcctctcgg gcagcactcg ccatcttcat 1260
 ggctttgata ctgtctccac caacacggaa gaagctatcc tgcttatcca ccatgtcggc 1320
 aggtacatcc aaagcagtgg accagagaag caggagcttc ctctccaagt ctgacgacat 1380
 gcggcggcgg ctggcgcgag aaatgggtgga aaagcgacgg cggattgatg tcattcgaga 1440
 gacaggggaa acgggcggct tcaggaactc gtttccgctg gcaaagctct ttgcatcgtc 1500
 tggggaaacc gggcattgtt ccgtttcctg aacggctgcc aagtcctcct tcttgaggat 1560
 ttgactcagt atctcgttga cgcgttcac aatctgctgc tggattcggg ggtcattgat 1620
 ggatagcttc gagcttcgag acctcacact gctttgtcta cgcaggctaa ttcgagagcg 1680
 gagatcgta tctgctggg ttgggggaag gctaccattg ggttcctgca ggctggagat 1740
 tgaccagat ggactctcaa taaaggacac gaagactctg gcaatgcccg ctaccaatcg 1800
 atttgcttgg tcggtcgaaa tggcatcgga ccaataccgg acgaggatcc cttegcctcc 1860
 ttgagctgtt accacgttca ccgttacggg aaactggaga tggtagaggac taaagcctaa 1920
 caggttattt tgggtcatac atacctcgct cgggtcgtac gctttaagag tgtcaaaaga 1980
 caaccagag ttccttgaa tggccgatgg catttggttt tgaatcgaaa gggctgtgtt 2040
 aaacagcatc tgaccccta ggccgagctc gttctggact gttgctagag agcagggtctg 2100
 ataggggatg ctgcgaaaa aatctgcttg gaccttcctg tagatgtcgg caaaggattg 2160
 gctgggtgtg aattgaacac gacaacacag catgttaata taaataccca ccgcgtcctg 2220
 cattccaggg accggggcat cgcgtccgc ggagaggtag ccaaagcata cgtcttcggg 2280
 gcgagtgaac tctcgtagca cgagtgccca tgctgcgagc accaaattgg caacggtgac 2340
 ggattcacgt cgacttactt gacgtaattc ggcgaaacgg tggaagtcca tcttcacaga 2400
 cctgagctcc cgggggccat tgctggatgt tgggagatga caaggccggg tgccacatag 2460
 atattgcgcc cagaaattat ttccttcttt caagggaactt gtgcgcatgt attcaatata 2520
 gtgcgggtac cgtggccctg gctcggatga aagctggcgt tcgtatgcta acgagaagtc 2580
 ccttaggaga atgccaacgg atgcgccgtc gataattgca tggttcattt caagcttcat 2640
 gacagcggg ccatcggggc ccttgcacac ggtgagctga tggagtttct tgagcgggtct 2700
 cttgtggttg gtctgctcga gcgagacctt gtctagctgc tcgagcacat tggagccgtc 2760

gcagtcgagt tctacaagat cggcatggag gtgcttcagg accacttggt caaaggaccc 2820
gttcttcgag ctactgtcca caaagatggt tcgaagaatt gtgtgccgat taaccaccat 2880
ttgccacgcc ttccgtagtc gagggacggt gattggctgg ttatttcggt tgtccctgat 2940
gtcgaagatg gtatgcagta tataagccga ggggtccga agctggctga acaggatgcc 3000
ttcctgcacg ggagagcatg gataaatgtc ttcaacctca tcccggctgt ggatacccag 3060
tctggggaga gtattgttga agagagtctg caggctgttc tgggagattg acagcaaggg 3120
gtagtcggag ggcacacct caagctgagc tggctgctgc aggatgtcta ggcctcata 3180
catcgtcatt tcgcattccg aaatccagct gctaatttta 3220

<210> 2062
<211> 1524
<212> DNA
<213> *Aspergillus nidulans*

<400> 2062

gcacgaccat acagtccaac tctgtatgac caaagtgcgt acatccactg acctgtccct 60
gcagtgagaa caataatgag gacacttata acacagtagg cacagccggc acatgctatc 120
taatgctttt ggaaatgtgg attgtttgct gtgcatgggg tcagtacact tcccatacag 180
agcggacgcg gtgtatagcg tatactaata atagtcacac caccctctt ttcccttcaa 240
actttcaagt gagtttcaa atctttcggc ttttcccctt tccttttagct ggggtttgtc 300
cccgacctca ggctttgagc gaactgaaga atgggtggata tcctgagcga tatacggttc 360
accttcttac ttggaaagag tcaaaggctc cgcttgacag gagacgggca gaacagcgtc 420
tgctctgtc aaatgatcat ctccatgagt ccaacccccg aaattagccc cctgagggct 480
gaacggaaga tatccagcta ctgtatccac gtgaagtggg ctctctttat cggttgtctc 540
ccggaccaag atttggcgtg accggagAAC cttgaccgat ttgacgaatc tgactcaggc 600
tcaacgcaa gttgccaaca gacgcggtta tggagctagt actgagctag tcgttcctgc 660
tgccgccgtt acaggtcgac acgcccacat cgtgcaggca tgattccagt acgatogaag 720
gggcgcacat actaatcact gcgctcgata gcctcgatca gacctgcgcc atctttcaag 780
ccggtacgcc gtacgactac tttattatac tttgtaaatt attgactacc tgcacaagtt 840
gatgcgattc atctggcagt caaaactgag aagtcctgtc catctcatct gggacgggac 900

gggaagttgt atgataactc caccagacac cttcttgag ctcctccaa ggggtcaagt 960
 tgagaaaagc aatgaacatc accaactgag tgctctctag tcagaatggc aatttgcaac 1020
 tagcagagaa aatcgaccac gatcgcttg aatggggctt cgttttttcc cctttccatt 1080
 taagggatcg tactcgttgg cgtctcaacg gtcattccgc agaaaaccgc cagaacaccc 1140
 aatccctttt cgagttcccg gaccgttgag cgcaatccac tttgacctat catcaatgga 1200
 ccccgactgt ggctcgagga tccgatccac ttgcgcgtgg ttagaatttg aaggagggga 1260
 gggagagaac caggtggcgt agcctcgag gattaattcc cgccgtcagt gccgcttgaa 1320
 ccgtgagtgg aggacaaggt aagcagcagc cgatgccgaa tttccttttt accggcctga 1380
 agaaatctta catgaaaaag ccagatttgt tcaataacgc taggaagcaa tatgggaggg 1440
 acgaagggga aaaaaaaaaa taaacactgc gacttgccgc ggtgtctggg tgtttcaccg 1500
 ctacatgtca tccaacctcg ggtg 1524

<210> 2063
 <211> 1586
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2063

ggcttcgata ttgcatgcac tttttggatg ggatcaaaaa tgggtgaggg accaagtcac 60
 gattggatcg gcccttttag ctatattctc ttattgctta tagtccttgt atatcagtac 120
 tactgtaaaa acatcaacga caaaaattat tgagcgtctt agcccttcaa cgtacacggg 180
 attcaccact tctgcgattc gctccgtctt cgtctgctgc agtgacagcc atcagctgct 240
 cccgcctctg cttcatgcgt attttaccgg caaggctttc ctgtctttct catgaagctt 300
 gttgaagccg tcaatccgca gcctatctgg ttgagttcgc cggtaaccg tactgaaagt 360
 agcattgagg ggcagaactt attcgtttgc agacagcaat gaattctcaa gtgacacct 420
 tatctgceca gctgttgtct ctteattctt ctttggaaca agtttttact ggagtacaat 480
 gacctgttaa tcctaccggg tgggcctgat ctggccgtcg gagaacgtag ggtttcccta 540
 ctgcctact gccctttact aggccattat cctgtccacc acctttcgct tccggctttt 600
 ctttctttca tactttgctt tcctccttga aattgtttac ttctaccatt gtctatcagt 660
 ttcttgtaa gccacctctg gtctcccggt tgggtatggg ccgatcccaa tttcgagtc 720

ttggcacttt tactcgaaga tgaggaaggg tcaatcaggg tcagcctcat tgagcgatag 780
 gccgccaatt ctcaacctag cgagtacgag ctttaagcagt ttggcggagc ccctgttcta 840
 gaagctgtcc agctcgggtg cctgtatcat gaagcgcatt cgatcgcttg gctggcgta 900
 gggttcgtcc aacggcactg aatccacgat cactactggg taaacacccc gcaagcgcct 960
 gggcagcgac caaggtacgg aaggtccggg ctttcaaaaa ttaccgaggg actactccgg 1020
 agtcgaccgt taagcagggg cgatgattgg gtagtgctgg cgaagcggtg catttgctcg 1080
 ggcttttacc ggagactgcy gagtcccaa ttcttggcag tccatgaagc ggagtataaa 1140
 aggcgtccgg caagaagata gagtatcctg tagaccagct cttcctcact ttgtggagtc 1200
 aagatgcgct ttcagcagct gttccatgg gctgcggccc tgactggctg cgtcgtcgcc 1260
 cagagccagg ccggcgctga tccgctcgac cgtcccgga atgacctcta cgtaaaggac 1320
 ctttcgaact gactgggta caaggtcacc aagcattgga agaccgatc cggtttctat 1380
 acggacctgg cgtcgcggg gccagcatgc aatgtgtacg gaatcgattt gcccaagctg 1440
 aagctcgaag tcgagtatca gaccgatgag cgactgcacg tcaagattct ggataaccagc 1500
 aacacagttt accaggtgcc agacagcgtc ttcccgccc cgggcttcgg ccagtgggtgc 1560
 tcgccaaga actctaagct cgaatg 1586

<210> 2064
 <211> 1780
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2064

ggagcgactg ttgtttgtcc gcatattccg caaactcgct gagcgctgg agcatggata 60
 cgtagttagc ggaggccgca aatgaggggt actcgaggca ggacaacaac tcacgagctc 120
 gcctcttcgc cggctctcca gagaggggtt taaagagtcc gtccgcatga tccgtgtttg 180
 cgcccagaac gaagtagttg acaagcaggt acaatgattt actggttcgc gaagtcgggtg 240
 tcgttatatg atgctagcta aacggtcgga aacgagcagt cgccaatggc gtgttcagac 300
 acgtattcgt acgatcattc ttcgagccgg agccagaaat aaatatatga attttgagag 360
 acaaacgcaa agtagatgtg gttgtaggag cagaggaagg gattattgtg gtttaaataa 420
 gagctgggga gacgggggtga gctttatcga tagcagccca tttgagtcag tccaactaca 480

gcggcactgc acaacagcac aagacactaa aacacaactt gcattgactc agagaagcat 540
 tgccctcgtg aggtagtact ctgccataga ttgatcctca gatcgatgac taattcatta 600
 tgctctatca atgaacctcc aagaggggga ataaagtatc gcggttaacc ggcgattcct 660
 atgctcctgg agctttaccg gcaaagccgt ataagcgaca gaaaatggga agttatcaac 720
 gccagaaacc gcgtccgaaa ccgtgtccga taacctgcaa ctaagtctcg gtcattcgtc 780
 gaattcgtag cccagtatg atggctcgtg aagtcggaga ctcgttatgg caaacagtcc 840
 ccgaatgaag tgcgtactct ttctaaagtt gcaatggatc acagtttgaa tcaatcaggc 900
 ttggggagat attaaaacga ccgagtcacc tggccggggtc agcggcagcc taattattat 960
 atgaaatcga tagcgcacct cgaacgaaca gcatctcttc ctgtttcttg atcgtctaaa 1020
 aagtcgaaaa caaaaggtgt taatcaaatt cttcatgatg ccgcattgga gaggaagata 1080
 atcagcgtac tcggatgtgc tcttgctcgt tctcgtcctc ctccacaacg tagattgtct 1140
 cctcaacatc acctagaacc agattgcaat gactgtcgta agcctaagag cacaattggc 1200
 attagcaaaa gtctgaagc cagctggcta gacgatagac ccacgtgtaa acgacccttg 1260
 agctcgcgat cccccgcag cttgacaaaa acgatctcgt cgagggagag gcggacgagg 1320
 tccaaaggct cggatacggg tgaggtgccc gcgccctcgg tgtcggccat tttgtttag 1380
 atggagggga taatgaaagg agtgggtaac agggacacag ctctgctcgt cagacagatc 1440
 ggataagaca aaaacgcgcc gagcgccaag actgaaatta gcgccatttt cctaccccgg 1500
 acttaacacg ggctagtaac acaccactac tggaccgcta ctggcgctgc atcttactga 1560
 aggacaaagc gtaccactta gcagccagac ataatggcaa taccgggcag tgttttgacc 1620
 aggggaccct gtaccacccc ctcatctgca ccatgttctc ctcaccctcc ttttcacctt 1680
 ttcttgccct tctgctttct cgtagtcatt ctcaatgagg ttggttttac aaagtcgctc 1740
 tttcaatagt gtcagctctg ctggctctct tagccgtcat 1780

<210> 2065
 <211> 3015
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2065

ctggccagga agctcctccc agcaccatcg tccagtcgac tgttgaggag gctactgcgc 60

ctgctgaggc tgcgctgaac ctgagactac tacctcgact tccaccagca ccagcgctgc 120
 tgagcccacc tcaactgctg agcccgtagc gccaacggcc gatgccaaacg tgcaggccgc 180
 cgcccagcca accaccacca ccgtctccga ggctcccgtc cctacaacta ccaccaggc 240
 tctgtctct atcattgctg tgcgacttc cagcgaagac ccgagccagt cgctacctct 300
 agtgccagct ccggctccag ctctggctct agctccggaa gcagtggctc ttctggacct 360
 tgctccgccc actctccctg cgttggccag atcactttct acgacactgc cacttccgcg 420
 agcgccccc gcagctgcgg tacaacgaac gacggcagca gcgagaatgt cattgctctc 480
 cctgttggt tcatgaccga cggcgactgc ggaaggaccg ttactatcaa gtacggcggc 540
 aagaccgcca caggtaccgt tgtcgacaag tgcattgggt gtgacaacac ctccattgac 600
 ttgtcgcgc acttcttcgg cgagttggcc tccttcgacg cgggcagagt ttccggcgtc 660
 gagtgggtgt tggactagat ctgctctttt accatctct cctcatccta ccgttcttac 720
 attcgctata tcatactttc tatacttcgt atctcgtggg tgactcgtcc agagtccctg 780
 agaccatttt atcattcgtg ttcataaaat ttttgcggtt gttgcaaagt tatccaacca 840
 agccatttgt tatttttcat ggaacaaaag cagaacggac gagaatggac aggatctgga 900
 atcccgtgg ttttatgatg ttatgaatca agtggtttcg gcattctgta gtctttagg 960
 ttaacttgat ccattgtatg accgttgcca gcgtaaactg tcggtctgac tttgcaatga 1020
 ttggcgactt gggaccggtg gtctacttct actctaaacc caattatggg ttgtcggcgg 1080
 tcagctgaac aggcctgtga gttgtcattg caagattcac caccaataat ggaagggctc 1140
 acgaggtatt tgcccgaaga ccggtggcgc gatactggat agcctcaagc ggtcgtcttc 1200
 ccgggttcag ttccagtggg ttggaactaa ttaagagtcc ggggtatctt tctcggtcga 1260
 cctccatgag ttgagtgcac catcagcatt attgggccat tctgttagcg gtttggaatc 1320
 cttgggactg ggggctctc actccaattg ggaatccacg attcacagac ttttaaccaa 1380
 gggtaagcc tgagagttac tgagtattag cgcttttagt agatgtaatc ccttgaccca 1440
 cgcggcacaa cttgccctgt tttactcttc ccctcgttc cgtctggctc tggaccatt 1500
 tcccctttgg gtctcgtctc ttccggcctt gaacctctc tcaaccccag aatctcctc 1560
 ttttctctg ctogtctc atcgagctc gacctcttc tttacttcc acactctccc 1620
 actctcttc attaatagcg tgggattttg gatatctc ggggcatgg atttctcga 1680

ctttcctaag tgagccgtta caccatggag gaccgcagac ccgaagtcct cgttgtctcc 1740
 atcgttttct ttagccttgc taccatcttc gtggccctcc gcttcgtctc gcgcactctg 1800
 gttgtccgga gactcgcctt gcacgactat ttgatgctcc tggcgtgggt atgcttgcatt 1860
 ggcccaatca tctaggtccg atcgcatact gatttacttt tttcaccage tcattgacct 1920
 ggggttttcc acggctctct tttatgccac taaaaaaggg cttggccttc atgatgttga 1980
 catccctgtc actgcaagat cggctctcag cagcgctaatt tacgccttta ccgttctata 2040
 tgtgagtcct tttttctctg tgcagcggcc gggattttcc gctcatttcc gcgcgcttcg 2100
 ctagaatccc gccttgatgg ccgtcaagtc caccatcttc gtcttctacc tcacctcac 2160
 tcaaggcgag aagatcttcc gctacgcaa ctatgccact ctgtttgtcg ttaatgccgc 2220
 cggcctggct ctcaccttg ttaacatctt ccaatgccgg cccgtcgaag acgctttcgc 2280
 tgcgcagctc cctgctgacg cgcattgtac cgatatcctg accttatatt taccctcgtc 2340
 gccggtcaat attatcacgc atctagcaat cttggttctt ccgaaccgga ttttgacgcg 2400
 catgcccgtg ccgcagaaac aaaagatcat cctcgtcgtt acattcagct ttggtttttt 2460
 cgtagctgtc gttgatgtta tccgcattgc atatttgcaa gaggctacaa ctgaccgaga 2520
 gattgctctc cgtcaaatcc acatgcagaa ttatggaggg gaggactttg cttgtatgtt 2580
 ttaggcggtc ttttttcccc caaaaccaac actgatctct tcagggtatg catcgtctct 2640
 gttcatgtgg tctgtcgtag aggtcaatgt ctcggttatg tgcgcctgcg ttcctagtct 2700
 gaaaccgctg gtcgccaggt tgggtccgaa attgatccgc gacagctctg gaggcacgca 2760
 aacgaatcca tccgaccccc cgctcccgcc gtcagggccca ctgcagatgc aagtcgcaga 2820
 tgccattttc agcgactcac tggatccgcg gcttacggag attgcgacag gacctaccat 2880
 ggctacgaca tatactgacc ccgaagccaa cacgaccaca catacgagca cctcagaccc 2940
 gcgcagcatg actttcttcg attttgtcaa catgaagaag ccggctaata tgctaaaatt 3000
 gagtaacaag gattc 3015

<210> 2066
 <211> 3568
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2066

caccctcag cgatacattg tctcttcttc cttctccac tcatcaactg gcgctctcct 60
cgatccgcc ttgtaaatga cctaacaatc cttagtgtcc tcacagcttt ccaatgcagt 120
ttagagagtt atcattacac aaccaatta tagcgtgcg aagcgactct ggatttttac 180
tctagcgttc gtacctttca cttgcacttt ttgacattgt ctggatacca gggtagacta 240
atgatgaaat attttgaatg actctcaacc cggatgctaa atgccaaagt tgcaaataga 300
ttcattctgt ttatgcta atgcagtctgtc agttgaaaat gcatagatag atggcactca 360
agtaa atagt atacatcaca catactgcaa aacaacgtat agatagagta cccaccagat 420
gcaacagatg cagagactcg aaacgaaaac aaaaagcagc caagggagaa taataacgca 480
atgggtaaaa taaggccgat aatcatcaat ctaa atcagc acaatccctt ctcccatctt 540
caagagctct agtaatccgc tcaatgagca aatttgggtt atccaagaca atattctgcc 600
gccgccgag ctcttcgagg cggacagtag gattctgtat aactccagta taagtacgtc 660
gctcgtagga gatgaaaaag cacatcaacc gtaagacgca cccagtcttc ctggtttggg 720
acgcccttcg ccgcagggaa ttggggcggt gtgtaatcgt ctggattgcc tactgctggc 780
ccgcggcgga ttggggcagg ggtaaccggg aggctaggac gttcgatttc gctagggaaa 840
tcggttatgc gggtgccgta attggggcct ttggaaccgg tggtagtgtt aggggtgccg 900
ggttgatgtt gtcggcttga ctttgatggg aatgctgctt tctgttggtt gggtgccg 960
gagagcactt gaactcgggc tctgcgggct tgttgatgg atcgatgta cttttggatt 1020
tcgggaactt cgtcccatgc gtttgagcgg gagtatgagt caaatgattc gctgggaagg 1080
ctgggcgcct cggacttcca aaatgttggg tgggtggatt tgaaaatttg ggagtcttct 1140
tcggtaggcg taagggaac catgggttgg tgttgagagg catcgtcagc aaaaactcta 1200
gttggttgg gtgcgttcgt ttcccagggg aatatttgcc taagtttctg cggcttaggt 1260
ttcgtctccg ggacctgata gtacatgttc ttccgggctt ctggatacga ctgtgggggc 1320
tggaagagct tgcgatcatc ggacatagta taggtcttgc tctccaaggc tattccttct 1380
ggtttagaat tcaaaggagg tggttccctt gaggaagagt cagcagatgt tgtagacag 1440
ccttgtaga tattcatctt accgagaggc atccattct gccttagggg cttcgaatat 1500
cggtcctct tgcgatgcc gttgaggcga tgggtgccgc tgtgtccca tgggcgctgg 1560
cgctcgagt gtgcgcgaat cattctgttc aaatggatga gcaggctctg tcggcacact 1620

gggctcttgt actggaggtg gctgtagatc atgatggcta tgttcttgaa cgggctgttg 1680
 ttgtatataa gcccttacgt gttcttcccc ccgaacatac tgcggaacca cgctaaaaac 1740
 aggttcacatgg gaaggtttct cgctctgata ctctgcgtga atttcgtgag acagatcttt 1800
 cacgggtaat ggcgcgacgc ttcgctctgc atagtgcgac gcctgaaccg agttatttga 1860
 agcttcttct gggggatggg agtctggatg ttgatctgat ggcacctcat gcccaagtgc 1920
 tgggtggcgc gacgtggttt ctgatcctgg aagaaggggt gtctgtcgtc caatatgctg 1980
 ctgtgggtgct gttactggga aattatggat gtgcatgtcc agcataggct cctctgcatg 2040
 ttgaacatgt ggcggaaccg agtgactact cggctctatt gtttcttagc gatagcgtta 2100
 gtctcaaaca cgtttatttc cctaaaaccc aaacatatcc caaccgaaa actcacattg 2160
 gctacagagt ggtaatgccg gtcgtagact gtccaccacc ttcccagtag ctgattatac 2220
 ggcaatcaa aaggagacac ttgtctcgac atattccaag gtttttgga tcctataaaa 2280
 tgtatcaagc taattgtact ctggaaatgc ttgtaggccg ggatatattg ataactcgcg 2340
 ctaggtgtgc agttgtacgt gaaactgagt cggtgccagt ctcgaaagt catgttcagc 2400
 aagccctggg cggcgccgtc aaagctggta ccgcgttctg caagagcttt cagcgcaaag 2460
 tagtcttgca tattgggccg cagtaccata acaccgctgt taaagcaatc gggccagccg 2520
 acatcggggg cagcggcgaa atctacgtcc atgtccagga gtcgctcggg ggctctaattg 2580
 gccaccacgt ccgagtcaat gtatacgatg cgcttgaact ttgtttgtcg ccacagctcg 2640
 atctttgtga aggttgctat caagtcagga cgctccatga gccagagggt cgccggcgta 2700
 tggttcgtca tccgatagac gggtatgagc tcatcgtaaa cagtctagac acctcgagtt 2760
 agcaagtttt gcgatgtggc cttattttac ctatattagc aagcgaagta cgcacctgaa 2820
 gctcattcag cgtcgcggcc tgcaacgtgt cgggcgtata cagagcgacc agcttggcct 2880
 tggtgccatt gtcgcgcaat gagtgggcga gaaccacggc acctggatcg agaagcagcg 2940
 ggtcagtatc aaaagatgac ggaagtggag caatcattgg tataccagga aggtagttat 3000
 cactcaacag cagctgcggc cggtaaaaa aacttgcaat ggatacggaa gcccagaatc 3060
 agggtagcta cagtgcata gactgcacca ccttgggtga ccatcccgcg agcgaattac 3120
 agcacagaac gcccaaaatt cggccaacca gtgcgggcag aaagcaaac gagaggaacg 3180
 gaggcagcga ccccaaaact gatgaagctg gagaagaacg gaggaaggaa ggaggattgc 3240

cgctggcggc tgtacgccgt agagctggag ctagaggccg tttccctca cgggagtcgc 3300
gttatgacgg gagcaacccc gcccgccacc agcagggatt tctcagggga cagtgcctatg 3360
atgcgctgaa aacgttaccc tgtgtcatca cagtttatca tttgcgagtt aagagacact 3420
attccgcaat atgatgggcg gctgaagatt gctgaagtct ggaagggggg ggttggttgg 3480
aagacggaaa aggaaatgac acatccgcct ttgtctttgc aatgctttga ttgtctgccc 3540
agacctgctt tggaagcttt gacctctg 3568

<210> 2067
<211> 1524
<212> DNA
<213> *Aspergillus nidulans*

<400> 2067

tacaaacccc aggttagatg ggggcaaaca gccttggcgg tttggcgat aaatttgggt 60
gtggaaatth aaacaagaag gcgggttcaa aggggccata ctctgggaaa tcgtccgtaa 120
aaacgtcttt tagttcgaaa gggtagaaaa aaaatttctg gcgggcccgt taaaccaatc 180
aacgagcttt aaagaaatcg cggaaattcc ggataaatcg ggggcactaa agagtttaaa 240
ggcccagaca atttccaatg gggccgcctc cacctgaagg gtccaggttc gtatgccggt 300
aacactgccc ccgacgagtc ggggagccga tgcttgacca ggggtgaactt tggccatcag 360
ctttcagccc aatttggctt gctgtccgtt caagccgggg gcacatgccc gatgagtatc 420
gctttcatac cgcgctgtcg tagaatctcc agttgcacac gaagccactc catatgctca 480
aaccgccggt ccgacggcat cgcacagccg tcgacagcag agttggactc atagaagtac 540
atgggtgttg ggctgagagc ggcaagcttg ttggggatca actcggccga aaaccacccg 600
ccttctcaa aagtgtgtcg ctgggcctca ggaatgaact cggaccagac ttccgtaaac 660
ttccttgccc atcgattcgg ggcttctctg aagatgttgt gtggcatgat atcgttgttg 720
ccaatcgtag ggatgaccgg gatagaaaga ccgagagcag caccgagtc ttcaaagact 780
tcaataaact tggccgccaa agccttattc aaatcgattt ttctcgttg ctgtccgagg 840
gattttctca tcgttgtcat gtcgagcaga gtcgccagtc cagagcacia aatctatttt 900
gcctttcagg ttcttctcga tccaccgga tgtttctgca atcagagcct gcggggagtc 960
gcaatcagac ccctctgccc ccagacgacc agcggagccc gaatctcggg gacatagagt 1020

ctcctctgac gttccttttc ggtagtgtgt atctagatgg aaatctggag gcggtcagcc 1080
tgaggcctgt caatggaaag gaaagaatga ctgcaagcaa tacctgtcac atgaaggaat 1140
cgtccggaag gttgcctcga ggtctcagac tgatatggct gactatcgtg attccccaga 1200
acctgttggt ctgacaccgg cacggccgac gcgccgacaa caagtcctag gccgtaaaga 1260
accgcgacta gaggcagtgg tatcattttt ttttaggcgt ttcgggctcc gtcaaagcgg 1320
gccaagtgtc gaatattaag aagaatcaag catttaaagg tgaaaggcca gacataggta 1380
gtcaggagat agatatgaag tggaacactc gagatcgtgc cagcaaggga aaaaaatatt 1440
gggggcgggc ctacgtcagt gaccaggact aaatcctcga acaagggccg gatcagggaa 1500
agcgtccgct agccccaggg atga 1524

<210> 2068
<211> 3919
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 2068

cccatgtttt tattgcaagg atgctgattg gctaggatca acgtatcctt tattgataag 60
gacggccaaa agttcgactt ccagggtgtc gagggggaca acttgttga cattgcgcaa 120
cgaaacgata tagagatgga aggtttgaac gatgcctctt ccccccggtt ctcttaccgg 180
tagtaactca ggaatcctat aggtgcttgc ggtggctcgt gcgcgtgctc gacatgtcat 240
gttatcgtgg aggaccaga aatgtttgac aagatggagg agccctcaga tgacgagaac 300
gacatgctcg atttggcgtt tggtttgaca gaaacgtcgc ggctaggatg ccagggtgcaa 360
atgaacaagg aactggacgg attggtggtg cgactgcctt caatgacccg gaatctgcag 420
gcgagcgact tccaaacgaa gaaataaatt agggcttctt gcgagacatg tattattata 480
atcaaataa cagcggacgt aagttgagta gatgtaatat aatagggtat tccaatctcc 540
atatcagcca ttttaacggg acgagaagtc ggtctaataa actgtacata acttttgacc 600
catgatacca ttaacgccgt gaatataacc aatgccactt caacgactgt caagcttcct 660
cgatgttgag aggcttcccc ttcttgccgt tgatcaattc caaaaacccc tgcttgctga 720
cctggttaac tgcttctctc cgctcgccaa ttccgactgt gcccttcttc ctctcttctc 780
tggcagcctc ttcaccacgt acctgcgcgg cacgaacggc attgaacagt ttcaccacac 840

cgcgctgtgc gattttgcg c aaccgcttct cctcctctgc cacagcaccg gcctggcctg 900
 tcgaaatacc ccgtacatca cgaacgcgac ccctgtccaa ctctccttc tttctgcac 960
 gtagcttggc ccgtgccgca ttgtccagct tctcttcgc aatttgagag gtgatttggt 1020
 tcacggtttt gctgcgcgat aggacaggat ctgcacgggc agacgttggt aatttcgtcg 1080
 caaggatctt cgagatggaa gtagagaatg ccgtagggtc attccgttta ggaactgtcc 1140
 tctttcctat agcaccggtt ggtgtagagc catcggaatg agcatcatcg tctgtatcgt 1200
 cgtccacatc ggagtcgtcg ttggacgcgg actcatcgtc ctgcttgaa gaatcttctt 1260
 gaggttctgg tttctttgct tccttgcttt tcgtttgctt ttgttgcttg cgagctggct 1320
 cctctgtttc ctgctcgaa tccgcaagat caactgcttt gaagtcggcg ggttcgtcgt 1380
 cggcctcgtc ggagctgcta tggatttcgc gctgcttct gaatttcttg ttcgggcggc 1440
 ccgttttgcc ctgaaagccc tcaagaacct tccgcttctt ctggcttgtc gtaagcggca 1500
 tcttgaaact cagcaatata gaatttgctg aggtgccctg tgaattgcaa agatggtgca 1560
 gccttgaaact tttctgttg cgggcggaaa acggccgcgg gccctgattg gttgtgggg 1620
 caacgttggc ctcttcgggc tctccttcgc ctctccctt tcaactactc tgctttcgcg 1680
 ggatattgtc gtgtgaatcc cattttgtcc aataagactt gcactaccag ggaccgtcac 1740
 aatggttctt caggatctag ggcggcgaat caacgccgcc gtcaatgact tgactcggtc 1800
 acctaatctg gacgaaaagg tacgccccgc ctacgtatac gacaactgaa agatgctgat 1860
 tttaggagta aaggccttcg aagagatgct aaaggagatc tgcgccgcc ttctctctgc 1920
 cgacgtcaac gttcgtcttg ttcagtcact ccgcaagtct attaaagcca gcgtcaactt 1980
 cgctccctc cctgcagccg tgaacaagaa acgagtgatt caaaaggccg tcttcgatga 2040
 gctcgtagcc ttggtcaacc cacatgcaga gccatttcgc cctaagaaag gccgatcaaa 2100
 tgtcatcatg ttcgtcggtc tgcaggggtc aggtaaaacy acaacctgta ccaagcttgc 2160
 ccgacactat caaatgcgcg ggttcaagac ggccctcgtt tgtgcagaca cttttcgagc 2220
 tgggtgctttc gatcaactga agcagaacgc gacaaaagct aagattccgt actacggtag 2280
 cttaacacaa accgaccccg ctgtcgtagc agcagagggt gtagccaaat tcaagaagga 2340
 gcgatttgag attattattg ttgatactag tggtcgtcac aagcaggaag aacagctgtt 2400
 tacggaaatg acccaaatcc agacggcggt gacgctgac cagactattc ttgtgcttga 2460

tggaacaatt ggacaagccg cggaggtgca atcctcggcc tttaaagcca ctgcagatTT 2520
 tggagctatc ataatcacia agaccgatgg tcatgcagca ggtggaggtg ctatctctgc 2580
 agtcgcagcc actcataccc tttttattct tcttggaact ggtgagcata tgatggatgt 2640
 ggagcgtttc gaacccaaag catttatcca gaagcttctt ggtatgggtg acatggcggg 2700
 cttagtcgag cacgttcagg ccgtaacgaa ggactcagcc gctgccaaagg aaacctacia 2760
 gcatatcgct gaaggtatTT ataccctccg cgacttccgc gaaaacatta catcaatcat 2820
 gaagatgggc ccgctgtcaa agctttccgg tatgatccct ggcttgtcaa atcttaccgc 2880
 cggccttgac gatgaggacg gctccatgaa actgcgccgc atgatctata tatttgacag 2940
 catgtcagcc gtcgaattgg acagcgacgg caagatcttt gacacacagc cgagccgaat 3000
 ggttcgtatt gcccatggta gcggcacttc agtgcgcgaa gttgaggatc tctgtcaca 3060
 acaccgcatg atggccggga tggcgaagcg tgtcgggtggc cagaagaagc aaatgcaacg 3120
 agcacagaat atgctcaagg gtggcaacia ggatcaacag cttgctgcta tgcagaagcg 3180
 gatggcctcg atgggtggag ctgggtggcat gggcggcatg cccggaatgg gcgatatggc 3240
 gaagatgatg cagatgctgc agggccaagg cggcggcggc ggcggcggcg gtgggtgggtg 3300
 tgggctgcca ggtcttgtgg gatggacttg cgtcgatgat agccacataa ccggttgatg 3360
 ggcggatgga ggtgtntaa antttccctt atctatttcc ttcttggcct agtttctttg 3420
 tcttaaatta agtcttccct taatgtattc ccaggggct ttaattttaa gtggagtggc 3480
 cggccatttt aaacttcttt tgtgggcccc ataaaaactc cccctcgtt tttttttttt 3540
 ttatttcaaa ggcgccaac ttatgtctct ccattaaatt cgtggtgatt tttatttcaa 3600
 ttttagcacc atctctcagg gggttttttt atatcccca aacttctttt cttttaaaact 3660
 cccctctgt tttcctctat tttcccgga tcttctcaa tatagtcctt ctttgcccat 3720
 tcgttttctt tggaggactt tcttttttct tcccaggcta tttatggagt tggaggtgg 3780
 cccccaatt tttttaata attttctat gtttaaatac ctcttcttt ctctnccnta 3840
 attttttgca acatatctcc acttttctac tcgttctcct tatgtactcc ttttatnnt 3900
 cttcttttcc ctaccgatt 3919

<210> 2069
 <211> 3454

<212> DNA
 <213> Aspergillus nidulans
 <400> 2069

```

ccccccgtcg acatgctttg ttaggtctga agtcaaacc tggaagcac tgagctcggc 60
gtaaaggaga gcactacgat ctgaacggcc aaccaggcgc atgatacgct cgacctaacg 120
acaattagct tcaatgaggg gcaagagcaa gagcggttcg atcgacacac ctttttctct 180
gcagatatag ctagactact gacccgcagc atgccttcac aggattgctc aaaagctctc 240
ctcccccaata cagagcagta ctcaagaaga gcattgagcg atgactgact gcaaaaaaca 300
ttaggtctat tggtagtgac aagaaacagg aaattacaca tacggacggt tcacacctgg 360
gatctcaatg ttcagcttga ttgtccgtac tccgtcttcc ttccccgaaa cgatgcagga 420
ggcgagaatg agcacggact ccgggaacac ctttgcaggt agagaccagg tttgggccgg 480
aagagctgag gtatgaaggt actcgatggc tgcagcagca gaatcctgta gccctttgac 540
cagcaatgct ctattgttgg gagtgtcatg ggctggagag tcctcagcga taggagtagg 600
ttccatgata gaacaagcag ttatataaca agcaagtcac cgcgactactaa ggatgtcaag 660
aagaatctgg ggaatagatt gcgattgaag agtcaactgg ccatggagac ggtgggggga 720
aaggccggta tttatgcaga gaaggcgctg ttcattctcag agaatcacct catcgagaa 780
gacgaggcgc ttgatactg ctataggaaa gtcaccatga tactgcagct ttggtaggca 840
tgaataaatt gccaggcact ctttccttgg ccgacttctt cgtacggtca gcctatccaa 900
tgaaattggc cttgccatgc ggaacccttg ctagcatcac ctgcaagaga attttatctc 960
agccaaccgg agaagcagaa atcctgcaat cgttgtaaag gtccatcatg tgccttgaaa 1020
ggctcgtgcg ttgtctttcg tcgctcagtc agatatcata cgtggacact gaatacacia 1080
catatttcgt tttgtgagaa acccgctgta taccaaacc gctgtcaact gctgagagaa 1140
agtctgcac ccaagaaagc caccaagtca tcaaatatgc aacttcgaga tggtcagagc 1200
atgggtcttcg tccttgagcc tgatgggccc ggacccttac atcgcgctctt attgacaaac 1260
agtgagtga cttttctcag tctcaagcta ggctgtcta gaatatgcgc tgaattccct 1320
gagtcaccga tggtaatcgt cgcgagattg gatactgcag cgtattccct ttacgactgg 1380
aatatgatca gcacggatgg ggccggcgta gcctccaaga atacacgtca atccctctgc 1440
catcacgta tcaagcatgg atcctgagac caccaggcta cggggcgcac gatatccggc 1500

```

gtcgagagtt agacggcatg gaggacacac tttggagact ctgtcacggt ctgaaccagc 1560
 atgattgtca taccgtggcc atactggact tgggtccacaa ttacaaaatt acgtgagctt 1620
 ttaactttta ctttgctcgc tatctgcaact aatcttacat atttcacatg ggaagaacga 1680
 gtaacttcag ctgggcaaaa gccggactca gactgcaggt caacaaacaa agaggaaggg 1740
 ctcgaggggt agcggaggag caaggagaaa cacatgaacc tcgaaagcgt ttacggaacg 1800
 ctcagatgcg ccatgtagca gcatggtgtc gacagctgct gattacggga gggattaaga 1860
 gcctccaagc tgcgcttaag gacaagtcgg actccagtgc catccctata atgcgagtc 1920
 ccgacgcgta cctcttgcaa gagaagatgc tagccagcgt ccacaactat attctctctg 1980
 tcttcaagag tcttaggtgg agttttagct cccctgactt actggacccc accggctcca 2040
 cacatactga cacagattgg aagcggttga gtgaccaggt ttggggagca ggctgcctct 2100
 tccgggaagc aactcaggat ggaggctcta tgaagctcag gcgcattctg ctggatatgg 2160
 aaaatgtcgt cggaactcca gaccctcagt tcatggtacg aatctggcgc atatgccgat 2220
 acttgcacgg catctgcacc tcgacaggcg atgaggatca cttaaaagcg cgcttcttgc 2280
 accgctttcg agagctgctg cggacttcca acggcgaggc aagccctata ttccagtttt 2340
 tcgacgcgct ggctctatg gatatgaact gttttcttcg ggctctgcgc atcggaatc 2400
 tacgagcact acatactttt gaacaaacta tcggccctgg acatcccatg attttaacga 2460
 tgtgggtata ctactcgaaa caatggcgag tcgcggaaca aagctacgag aagattatag 2520
 aatactacaa ctgtgcaact caaaccgcag acgcatctct cggttcagag tcggatacag 2580
 cgatatcgat tctccacgat tacacttact ttgtttacta cggcggcagc agaagggata 2640
 atacgcaagc cgcaattcta gccaccaac tatacgaccg aacatatcca cacatgttgg 2700
 atagtccttg caactggaat aacaaaactc aatatttcac ctttgcttca cagatcctag 2760
 cagagtattg gtttctacag ggcattccat actgggcaac ggggtacatt gagaaagcta 2820
 gcagtctact ccaggctctct gaccgagagt gccagatccg agcccggatg ctctcggca 2880
 aactacgagg ctggctaata cgctgggggt cactggacga ggcgcagcgt gtcaaacaaa 2940
 ggcaagtga tttaatggca tccatagatg aactactgca gagggagatt caggactacc 3000
 cgccggatgt atagtcgggc cagttgggtcc gactacggga atatgtgtat ttgccacta 3060
 aaactccacc ggattatgct tggttctctt acccgcgcgc actttgctgc ataggctgg 3120

tagagcacga acgtgaaatg aaggccaaaa tgcttgaagc ggctgaaaca cgtggcgatg 3180
 tcaactgggggt tcaataccat tttccgtttg atgacttcga tgaaaacccc tgaaatgggc 3240
 cctgtgcaat atacgccaaa taagatctac gaatgcagag acatggtaac ggaagacgtg 3300
 gaatttaatc actccccaat attcgtacgc cagcctgtcc tggccgcagg gagaacccgc 3360
 ttgctgtctaa aagagcgaat ggaaagtgtt ggagacacga ctgcaggaac ccctgaaata 3420
 ctcttccagg catagacttc atgtctgata cccc 3454

<210> 2070
 <211> 2134
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2070

aagctctttg ccatgggtga ggatctatgg gctgagtgga tccaggatga gagtatgttg 60
 gccacgtcgg tgaacgaacg catcgcgtga tggaaactctg ccagcggtcg atcgaagaag 120
 aatacggcag caccaagctc tggattatctt acggagagtg ggtgttatac ctgtacaatt 180
 ccgcgcacgg cgactcgagc caaagccgtt ggtcggagga agatcggctg gtgggccgtg 240
 aagtcttcac ctggcagacg atcttggaca catggcagag gggcgctgag gcaacgaggt 300
 ggaggatcca cgacagtcac ctctgtgtgg accgcctgtt ggaattgcaa gtgcgagatc 360
 tctctcgaaa cccgtcccag gataagatcg cgcgagtacg agagctgttc gatatccgac 420
 tgcaaacccc tcacgccaca tgggacttga cattccaggc gttctctaat ttcattctca 480
 cctactacaa cgctaactac gagaatatta tggcagaaac tgcaggaaaa tatgccactc 540
 cgggtcaagga tcagtatgag gctcgcgagg atctcgaaat tcggctccgc aacgccgctg 600
 aatccgggga ccgggctcag gagtgggcaa tatttggcga atacattgag tgggaactta 660
 atcgcaaccg ccggagacga aatactaact tcgaactaat caacgcaata taccaacgcg 720
 cggttttacg attccaaaca gacgcgaata tctgggagga ttatatcatg tttttgatcg 780
 atgaatcaat gcacggcaat gcacacccga caacaatctc tgcgctcgac agggcgactc 840
 gccactgccc tggctccggc actctgtggt cgcagtatct gctcagctcc gaaaggggaag 900
 gacagccttt taccaagatc gccgatataa agcacaaggc aacaagcacc ggtttactcg 960
 atgttggcgg catggaagag gtactgaagg tgcatacagc atgggtgcagc taccttcgtc 1020

gacgtgcgtt tttgtccgaa gcaactgatg aagacctgga cgtggccgag gtgggaattc 1080
gttcggcgat tgagagcgtc caggaacttg gcgagaagaa atatggtcgc tcctacgaag 1140
gtgaccgcgt tttccgctta gagcgcattt acatacgcta cctcagtga agtggcagct 1200
gggacagcgc ccgagaaaca ttaaggggc tcatgggacg tcgtggcaac agctacgagt 1260
tctggctgac gtactatcac tgggaattgg tttcgtggag caagtttgtg caaggtgaag 1320
caacagttga cgctgctccc cgaacaccca atcccagctt tgccacggct gttctaaaac 1380
aagctatcaa gcggacggac ctgcactggc cggagaagat catgcaggtc tacgtcgcgc 1440
actgcgaaga ctacgaggac tcggaggaac tgcagctcgc aattctggag actcgaagg 1500
caatgcgagc tatcaacgcc cgctgcacgc gggaagccca ggaggctgcc gctcaacagg 1560
cagcggcggc agcgaccgaa acccaggagg cttctcagtc ggaaaagagg aaacgagaag 1620
atgaatcgac ggcaaacggc ctcccaacta agagggcgcg agcagacaga gcgtcagttg 1680
aagcggagcc agttgcgctt cgccgtgatc gtgaaaattc tacggttgtg gtcaagaacc 1740
tgctcaagg caccactgag cacaagtcc gacaattctt ccgtgatgta tgtttttcgt 1800
ccttttgcta aatgcattag ctaatttcat atagtgcggt gctattaatg gtgtcaagat 1860
gatgcctggt gaagacggaa aatcggaagt ggctatgatc gagttcaata ctcgagacga 1920
tgcagccgct gcacagactc gtgaccagaa gactttcgat ggcaacacta tccaagttca 1980
cttcggttcc gagacgacct tgtttgtagc caactttccc cctacagccg atgaaaacta 2040
cattcgagat ctgttcagca aagtatgtct ccagcccctt gctcatatca ctcccaatct 2100
aacgtttata gtatggcgaa ataatagaca tccg 2134

<210> 2071
<211> 1826
<212> DNA
<213> *Aspergillus nidulans*

<400> 2071

acgcccata gttggttctg gattgctgga ttgctacctt gccaaagtcgg ctcggttgaa 60
aagaagcata gttgcggctt ggagcttttt gagaaatcga gccgaataag actcctgtaa 120
aatgtatatg aagtatacca acaaacagtc ttattcgccc atcatcaaag tcctcccttg 180
agttagctat agctagataa ctttttcaact tgagcatttg attgacttct ttgcaaccct 240

tttttggcca gctttgcccc gtgggcaagc aatcccacgg tccccaccta agccagccag 300
 tctggtatcg cagccaagag catcagcctg ggcgccaagt gattggcgca tgtctaccaa 360
 tcgctactcg atgtctggat gatgctccat agggcgggga gaggggaaaa ctcaatacca 420
 ttatgcggca ggaggtggcc gccgaccggt gtcccgcttc tgaagacata tagtctggcc 480
 attgccgcaa gcagtgatct cagctcatta ttctttcgcc gactcaggtg acctccaagt 540
 agaccttagg cttgaccttc gaatctgcag acgatttggt tcattggatc tgtccgacgg 600
 gcttatcatc tcagttgtca atggctcgcg aaaagactgc agaccctgga gggatacgcc 660
 ccggccatgc tgacctgagc cagccggctt actgtctccc attcgatgtc gttttgaaag 720
 agctcgggac caacgtcgac gagggactga caaaggatga ggccgcccgt cgccttcagc 780
 aatatgggcc caaccagctc gacgagggcg aggggtgtctc tgttgtcaag atcctcgtgc 840
 gccaggtggc caatgcaatg atgctagtta agcggccac tttcctcttt tcctaacaca 900
 tcatttatat aagagctcct agagtctgat ccaattcgtc gttgcaggtg ctgattctgg 960
 ccatggcggg cagtttcgga attcaatcgt ggattgaggg cggcgtgatc tcagccgtca 1020
 tcacctgaa tattgttgc gggttcttcc aggaatatgc agccgagaag actatggagt 1080
 cgttgcatte gttgagttcg ccaacgggaa ccgtttcaag aggcggcgag accttctcgg 1140
 ttccatctgc tgagattgtc cccggtgata tggttgagtt gaggacgggt gataccgtcc 1200
 ctgcggatat ccggtgagtt aactcttatt caatgatgga ggtacgggga ttgacctgat 1260
 tagactggtc gaagccgtca acttcgagac cgatgaagcc cttctcactg gagaatccct 1320
 ccccgtagaa aaggaatgcg actctacgtt caaggaagag accggccccg gtgaccggct 1380
 gaatcttgcc tacagttcaa gcactgtcac tcgtggctgt gccagaggcg tagtcgttaa 1440
 tacaggcatg gctaccgaga ttggttccat cgcggccgcg ctctgtgcca ctaacagcaa 1500
 gcgccgtccg gtcaaacgcg gtccctgacgg cgagaccaag aaacgctggg acctccaggc 1560
 atggacgctg actggtactg acgcagtggg ccgattcctg ggagttaatg tagggactcc 1620
 gttgcagcgt aagttgtcga aacttgctat cttgctatct ggtgtcgtgt tgctctttgc 1680
 cattattgtc atggcagcca atctgttctc gaacgataac gaggtaatct tgtacgtgt 1740
 tggaaccggg ctgagtatga tccctgectg tttgggtggtc gttcttacia tcaccatggc 1800
 tgtcgggaca aaacgcatgg tggaag 1826

<210> 2072
 <211> 736
 <212> DNA
 <213> Aspergillus nidulans

<400> 2072

```

gctggcgctc cgccggagtg tcggcataat ctgacgatga gagcttctct ttcagctctg   60
atactggcgt cgaggcgggt aatgtgagcg taaactttgc atcgttcgaa gctttgatat  120
tgaaggtgat gggcgactcc tccgccacgg tatcatccgc catggttaat ggggggtgtgt  180
gttggcgatg agtgaggggt gtgttgaggg ggtggtccga ggcaactcag gtcacgtcac  240
aagctgggtg atgagtcctc tggctttcag cagaaaaggc aaagagggac gaaaactcaa  300
gggaaggagt tcaagaatga atgctaattg agaagtctgc aacctaattg aacaaaagcg  360
accttggctc ttatcgcgcg ccaatatgtt ccgacactaa tggtaaaggc caaagcccag  420
acagaaccag gcagaacccc atcgtcagaa cctgaaccaa tggacgaagc tgtcccggga  480
ttacacgtaa tattggctgt aaccactcta gctcccgccg atactggtca taggcttaca  540
ggtcacgtgc ttgatcaaac aggacaaaca cgcgcttgac ctcagctcaa gctccacatt  600
gcaatttttc atcttcgcgt tctcagcacc acaagtttac cagctctcta ccttacctct  660
cctcacgagg atacctcgtg ttcgagtgtt ctcaacttgc tgtctctctc tgcagcaatg  720
ggagtacttt tattat                                                    736

```

<210> 2073
 <211> 5091
 <212> DNA
 <213> Aspergillus nidulans

<223> unsure at all n locations
 <400> 2073

```

ccttcttctc cttggaagtc cttgctaata acaagctaata aacaatgaat tagtacaggt   60
gtaagtgtga cgctgacctt cagaaaccaa ccgttacgtt actcagccaa ggggctttca  120
ccgacatggc ccgtgaacat ttccccaggt ctactccgtg tgctcactg ctccccctct  180
cctctctcca cgcttgagtg ggatcgtgca atcaaaatgg accttggtttt gggcccccg  240
accagaaca gcgaatctag tcacggccgc ccagatgga tcgtccatgt gggcccatct  300

```


aagagcccca gatccaatga tgaatctcag gaatctgac ctcgccagtg gcagacctga 360
cggctgacta tcttggttg atcgcttaga gctgggcgtc tctggcaagg agcaattctc 420
ccgaaggcta tccatacctc gaagtccgct tttttaaggc tgcagagcaa gcgaattgct 480
ggtacgggta cggttcagat aggaaagctc gaagaatggg aaaaaaaaaa tcttcaaate 540
aaagcctttt ctggcacaaa ttggacggcg gagggctaga tgaggttgct ccgccccatg 600
ggcccgctcc tgccaccgt cactgtcttt tctcctaac cccttccgc gcccttcgtt 660
ctacgtcatc tctttttgtc gacttgcct agacagagac cagtcagcca ctgggggtac 720
tgagccacat agactcccat cagagattca gcgtcagttg cattgtaact tagcattagg 780
ggaaagtggc cgcgtccgtg cccgggcagg caacaatgac ttcacctgca cgttggaaca 840
ggataacatt caatccgcca cacggggcct aacacgaaca acttcggact gactccatct 900
acaccgtatg ttgcaagggg gctcaaggaa gccgctgcca cggacgttcc cgcatacgtc 960
gatggaagct tcaatgtcaa cagttcactg ggaaatcgcg aaacttcgac gatgatattt 1020
aaaggcttta ctagggagaa aacaccgtgg attctgtaca aaaaggcaac tggcgccagc 1080
gtgacttgaa tcttggcatt aatatccaac ctctgttgat attaccacac tgcttcagca 1140
tcgtcgcata gtcgtggaat ttttatcccc tccacagc ggattatgga ctcatcgaga 1200
catcatgtga tttcgaattc aattttgcta ctctatatt tatcaagact tttatttctc 1260
cgtaacacta gttttgcgac atgtcaagtg ttgacaaagg cgaaatttag cgtcctcact 1320
gagactactg atcgaatttc tccggcgga gaccagagt cgtcggggct aggtcctgtc 1380
ccaacatgat ggatacgttt gagctctcag ctccatgatt gccgatccat tcgtggtcct 1440
aatctactgc atatcgact gggttccata agcgtggtgg tatactacgt tggagtacca 1500
ccctaccgag cctaccttat ccgtggtaaa ttatcgaca gtactcttat tgcagccatc 1560
caatatcctg tgccgactac ctctgatggg ctctaggagc gcatccgttt gcgataaatt 1620
acggactgtc ctccaacag agtcgatatt cagcttgctt gacaggcggg gaagtgagag 1680
acgcgagccc cttattatta ttagtattat aattattatc agtattattg ctactattat 1740
tccaaggctc gctgcagcct actgcagcta aaatttcagg aatcggagtt gactttggct 1800
ccaggagctg ggtcaccctt gcctagcgtg ttctggttct tcgggatcgg ctgcacaaa 1860
gctctaata tccatgtaca cgtccccgac ctacccttga cttaaagcga cccaactgtg 1920

aggtaagtga caggcgcgtc gccaccagc aggcgagtac cactaatgac gggcacggca 1980
 acgtacagag tacagactgt gcagctcagc tcacctcaga gcacagtctc cgccgttgtg 2040
 ctccacctac cacctaccaa cgagctcagc gcacagagat tgcggatgat cacccgata 2100
 gggcagactg ggcagagctc ccgcggcctg aagggccagt tgatcattct gcggattgaa 2160
 tagtcacgcy accatcaaat gacagcccgt ataaaaacac ggtagattgt acgacgttgg 2220
 ctaggataat cctgcgtatc gaccaggatg atggagcttg ccacatgctg ccccttgtgt 2280
 agtcaccgca acgacattct tgggaactgc attgactgat cgcaaattat attagtctct 2340
 tatatcttac caagcagggt taccgagtgg tgcgcccagt gcgaaacagt acgttgctcg 2400
 gttgatacgg tctaggttcc gtcgtgtctg cagacactcg ggaagcggga agtgggaact 2460
 gctggatggt gccggcgggt cgggtgtccg attgctaatt ctcgatttag tatcttttta 2520
 ctcatgggtt ggctgataag attgcgcagc catagtttga tgaatgatag tggtagctta 2580
 gagacaacct ggggtgtttc aattctatca gcagaagacg agcttgccga tgtattttac 2640
 aggttggaac gactttctgc ggcggttggc ttacggaatt gctcgaatgg ggaatgcctt 2700
 tgcgcacgag gacggccctg ttctcgaaga atcttgatgc tgacctatct tcaggaaaga 2760
 tgaaagcagg tcatgtacga cgctaggtat attgctgatt tctctcgcca ttggacggcg 2820
 aggggccgtg aatcatgttt agaagccctt gacattgatg ccagacgtcc cgtggcgatg 2880
 aattggcctg ggcgtgaatt gatgtggcta ctacaggaact gatcgcatcg tccaattcaa 2940
 aaccgggcta tggatgaagc ttggaataac aattactctg gcagctccct gaaaagcaac 3000
 tctttcccga gctgtagaca aatacggcat caaggctcgc taggtatgat gttcttcaca 3060
 tctggcccat tgggatatag tagcttcgcy ccacggcttc aaccacgcac catgacgggg 3120
 tataccggac aatcctgttc gtttccaatg gatacgacac gactctgccg tctggagacg 3180
 ttggaaaagg cgtctattga ttttgacat accgcttgct tattgctagc atcttgctgc 3240
 ctgtcggaga gtagcccata cacagagcgt agcggactgg cgagggctcg tgataggctt 3300
 ggcgaaacct acgaattctc gcagcaccgc ctgaaaactc ctacaaggct gtctgcacat 3360
 cattgaggat ccgttccaaa tgtcacagaa aaggtagggg ttcgcaggag acggggaccg 3420
 aactggtcag gtaggacgct ggactgtaac gggaggaacg ttgtctaggg agacagttag 3480
 cacactctag aagatcgcta agccgagtaa tggttattga tcggataaca gaatcttttt 3540

gactgtgctt ttgcttcata attattgaag gtcctagaac tctagccggt tggttagcgt 3600
caggcgcagg ataagccatg ccgatctgaa gttgaggatt tcgctcaaaa gtctatttgc 3660
gtacatgcag cgcaaaaaac agaaccaact gccagtcaaa gccattgtct tgttgaaagt 3720
cattgagtgc tcacctacgt tcaaagctat tgatcagact aaacgagcca agatccggga 3780
cgtcgaagga tacgggcaat gccgaatagc attacagtgt cgaactcgca acccactgga 3840
cgtagtcgag acacaccact agttgaaatc tagcctgttt actgcatctt cgaggcagtt 3900
tgccgcactg acggacgggc gcaaacagcc ttgacatata gaaattaccc aaaggcttca 3960
atcaccatga atctttcgct ctggatagat gcttcaaacg acgcgagtc caatccccgt 4020
gtggccttcc cgaagctctg cctgtgggtc gaatgcacgg tgcacaatgc aaccaatgtc 4080
agtagcggtg gcaaatgcgg gttctcgtca cactgggttt ttattattct tatttttttt 4140
ctttttcttt ttcttttgag gaaatttgct gtcgttttaa gggtcaccag agcgaacctt 4200
ttcgaccatg atagtctga tgaacagaga tcgactactc cgtactactg cctagtaata 4260
tgagcccgggt gtcaatattc gacgccatgt ctctgcgtat cccgtttccg tgccaaagag 4320
ggtctgaagg cttctcatct ctcttcgaga acaaataagc ctggactggg atactgcagc 4380
aggcaagcgt ttatctcatc gagagcatca tcactaaggc agtggtggca ttctaagaag 4440
ggatgttgca gctttgcgag caaatgcgg gtagaaatcc aatgaagagg aattgtgtcg 4500
agtagaaagt cataggatca aaatctggaa gtgcgatcgt cttcgcaaca actgtagtat 4560
gcattatggg cgacagagaa tgtccggact tttgtatgga tcaaccgatc aacaattagt 4620
tatctccacc tggaggctgg gatgcacccg aggcgcctac ctctcggaac gacaatagct 4680
gtgggttggt tgtcatcacc tacagaagtc ttcttccttc tgcatttgcc gggtatcgag 4740
at ttgagagt ttcaaactcat acgtagctgc tggtttaatg aacatctcga tgagtgcctg 4800
ctacaagagc caacgtagac aaatcaaggt cagatccttg taagttgccc atggctgccg 4860
gccgaatgcc tttccagcga gtggagatcg agtccgntag ttgtacgggg cttaattttg 4920
atgcattgcg gcatgcctcg atgcagtttg atgagaagct ttattcgtag tcctgccaaa 4980
tcaatgtgca tctcgattgg cactcttcac ttctttttgt tgggaccct gaagagagat 5040
tgcccgaata gtcattggccc ctttcaggcc aactttaaaa gggcatgtat t 5091

<210> 2074

<211> 2379
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2074

cgatatgtag gctccccaga gaaggaactc gtatgectac tcacaatgct aatttgcggt 60
 cagatgtgtt acgccatttg ctgcatttta tgctagaaat tagaactcgt agatattctg 120
 tagatggtga cgaatcgcca gattggggca gggcacatga gatgatattc ttattctgtg 180
 atacaggtgg ataatgaagt aatcgctctc atgatgattc attcaggatg tattctttgg 240
 gagttgagac aagcacccta tcgaatctac tctatctctc caaagcagac aagtatatgt 300
 tctcaataca ggaacaaaat acagtaccga aagttctatc agctatctga gagccccgtc 360
 gccctaaaag gggcacaacc gcgctcttca gctataacac aaaccaaacc agcgggttcg 420
 tcaagtcaaa aacatcgta tacattatat ctccatctgc aatattgggtc ttgtagacaa 480
 gaagccttgg gtcgattact gcaacaatca ctcggtcccg cctttgccag gtcagggtta 540
 atactttggc ctccacagaa tcgtatctgc aagctcagcg accacggcct agccagagcg 600
 agctctttga gccacggatt gagggctcga ttcgaccctg ggactgcatg agtgtgcggg 660
 gctcgtacat ctttagcaca tggagacgga gctacatagt tgcttgatcc ctcgtaaaag 720
 agttggggcg aaggaggacg ataaatcggg actagggggc gttgagttaa ttgataggcg 780
 ctactggag gcgaaagggtg acaattgcag agaggatact ctattttatg ccaagtcaat 840
 cgctaagccc aatatcggtt atttagttct acgtgcatgt gtatgaatgt ctatgtcccc 900
 gtctgttacc tgggaacttt gggttgacga gatatgtctg tcttgtccca gtggttaggg 960
 cttgagaagc tggacaaaag acttgattgg gcaattgtat gtaggatgca ggactgtatt 1020
 tttgacttca tcagctacgg agtagctagt cttattataa atccatctga gcttgtgaag 1080
 gtgacgctca ttattgaaag caaacagttt aactatcaag ccatcgagat aacaggttat 1140
 tgaacctcct tttaggccaa ataacttcct agagtattct accgagtcga tgttgatagc 1200
 cgttatcatt tcgcgcaaga cgcatagtct gctgaccaa ttctacagac cgtccggata 1260
 gccctaagcc tatcgtctcg tggtctacaa ctcaggaaat gggtaacact tctcttctat 1320
 aataactgg tggtcgctag gttcaaggac caataaaaac tgtcttgtct cctactttcg 1380
 ccttctgttc tagctccata cctgcgattg tggggatata cacgcaatga gtcaacttgc 1440

ctccttggct tcaaccatga tgcgatgcat atcccagcct ggttcgatcc tagcttctcg 1500
 tggctctgctc gtctagtata tgggctatat gcaagatgca attagctgct caaagcaaag 1560
 cggaacgcaa aatgcaggta ggatccagcc ccgtccctatc tttattcacc tgaattctgc 1620
 gcttctatat acctgccaac cgttgcgcat gtaatcatcg taggcaagcg tcacctgact 1680
 gtctgttaaa tgttatgtag gttccttggg gagattggat actgggttcg gctccctgcg 1740
 ggaaagacct caaacccata acgagctctg ttttggcatg agcactatgc atgagcacta 1800
 ttagccgctc ttcaatcaag ctaatccagc gctaaactgt aactagaggg atatcacggg 1860
 ccgaatgcc a tgcctatgc taccccaagg catacgacga acccgaaacac ctgactggcc 1920
 gcatgaccac ccttcagca gcgatggatc cgtgccccaa taccctgccg gtctctctgc 1980
 ctagtttcgg ctgatccgt caaaccttgt cctagatgct aactgcatt ttgcttagct 2040
 ggctgggagg tttagaatcc ataaccgcag ccagaagtca catggcacc ctccgagtgg 2100
 aggagggtag ggttacggtc cacccttat gtgtgaattg aactgctctg agacaaccat 2160
 ccactacaga ctagagggtc ggggctatag atcttttctc tgttttgcg atcatcaggg 2220
 cagcttggac cggaattagc cgtcaggcga ccaacctttt gctcttgttg cgcttgcact 2280
 agccacagtt ctgccgagc ggcatagtct acaaagttca ggcagaacc atttcacata 2340
 cggatttagc atcggaatca ttcattttcc cgatccct 2379

<210> 2075
 <211> 3239
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2075

agtagatctt cgatcaggcg caccaggata agtcttctgc gccactttg gggttggaat 60
 gaaagctttg gctgtcttat cgggattctt caagtactcc cgtcgaggac cggctccttc 120
 agcgcaagct cgccaccac acccacaggg taaagacggg catggttact ggggtccaca 180
 atccaagcta gagtggaagg tatagttcta ccgatgtttg ccgggttccg atttctgcc 240
 atttcagggt tgaaggtagc atatacagaa gtctcggttg ggccataagc attgatgaaa 300
 tggaccttgt cagaccattt ggtcatggct tcatgggaca tcatctcacc accgcagacg 360
 atgaccttga gggaaggtag agaagccggc tccataatgc tggcgaggga cggagtgcag 420

aagagccagg aggcgtccag tcgccttata gctccggcaa tatcattaag acgctcctcg 480
tcgctgggaa tacagacaca gccaccatat atcagtgtcc caagtatttc cataactgca 540
gcatcaaaag tgagcgagggc aaactggaaa actcgaatac ctggccttag gtggataatg 600
ggaccgtaag ccatagtgtc actggcaaat gcgcgggtgt cgatgatgat gcccttcggt 660
cgtccagtgc ttccagaagt gaaaatcgaa taogcaacgt ttgtactcgt cgctgatcct 720
tgaagggaag cacgttttgc tcggtaatgg cacactgtcg gttcgtcaac gccgagtact 780
gtgggcactt taccgtgtga ccgagagcag tattttggcg tgcagaggac aattttggca 840
ccagtctcct ccaggatttc ttcagtgttc gagactggat gagccggatc taaaggcacg 900
aaggcgccgt ctgcaatgag aatgctcatg atggtgacga tcatccacat agatttgtcc 960
atgcacatgg ggaccaggac ttcaggcccg acgccgagct gcgagagggt gcctgcaaac 1020
ccagaagcga gggccataag ttctgcatac gacagggtcc catccaaga agctacagac 1080
ggtgctcag gttgccgtat gcgctgttca ttgataaggt catgaatggt atgttccacg 1140
catggtgcag cagactagtt ccatgtcaac agatcctttt tattttccgc gcagactacc 1200
ttgagatcgg agagaagcct gttgtcagat gttgcagttg tcgtcagctg gctaacggat 1260
gactgtgaat tggccaagga gccgctgaac tctccagggg gcaaccacgc cgtcatcgaa 1320
ataggaggta atctcaaccg agtcagccag tcgacattca actgtcagag ggtaagtaaa 1380
gaactcatga tttgtctcag tgctttgcgg tgtccaaatg tcggcggtta gctgcgggtc 1440
ggcggattga atgacaagaa gggtttggaa atcgcaggcg gcggccgtat cttcgttgag 1500
cttcgttatt tgctgcagac cagcgtgctg gtgagaaata actctcgcgg cagtccggtg 1560
gacttggtca agaaactccg tgatctttat actggagtca acagcaaccc gggttggcac 1620
ggtagtgagc aaggggaccg cgatcttcgt ggcgccgacc agatcaacat tgcgtcccat 1680
tagggtttcc ccaaagcaga cgtcgtcga ctctgtgtgc atggaaagga caatagccca 1740
ggcagctctg atcatggcgg gaagggtgat gtccttccgt acagggtga cgttcgcggt 1800
ggcgcatgtg cggttgacg cattgattgt cttggggagt gcgcttttgc tggcagggaa 1860
tgcaggagag gacatattag agagatatgt tcgccagaac tcatcagatg ccgctaaatt 1920
ccgtttctgg agatggtcga taaagagact gtaaggcact cctggatcag acgtagaagg 1980
accaatgaag ttgcggtaga ttccataatt ctctccacc ttgcgaagga ttagggcaac 2040

actccagccg tcgtagagag catgatggat tgaccaagta aaggagcgta cgccgccctt 2100
 ctctgcaatg gtataaccgg ttagggcacc gccggctgct gtggccactc ggctaggatc 2160
 ttgtcccccac ttgatagggtg aaggctttag gacgacctgc acgaaattgg cagtcgccgt 2220
 gtgcaagatt cggttcgca ggacctcagt ttcgtcgaca gttttctgcc acgtgcctt 2280
 gaaagctggg atgtcaatat gtgcgaaaag cttgaaaact ggagtggcga cgtaagcccc 2340
 cggtgctgg attgacgtg ttataagccc ctcttgacgc gcgctacaag ggtagatata 2400
 gcaaataagag gctttcgaaa cttcgcaagt attggctacc tcgtccagca gttcgccac 2460
 gttggtattg ttgggcaaga gcgagaagg agacggggtg agcgtctcag tagcaacagt 2520
 gacctggcaa cacttgacca tatccgccag cacagggaat tggaaaatat ctgcaacgct 2580
 gagagtaagt ccgtcgtcct gagctgcact cacaagactc atggctgtaa aggagtcacc 2640
 gccgagaccg aagaagctgt cgtccgcatt caccgagctg ggatcaaccc ccaaacctc 2700
 gctccataac agttgcagtc tagactgaac ggtaccctgt gtcactgaag tagacttctc 2760
 tgccatatca gagtttgaac tgacacttga ccggcagctg agttccgatg tcaagggggg 2820
 tgggcctaga ctggggcttg tagactgcga gctgtccgga acggtctctc gcggcacatt 2880
 gtcgaagacg gacgaggagt aggccttgag ctggctcgtt gaaaggctct cggccattgc 2940
 gcgcagtcgc cgcctatcga ttttggctga cgtgttgcat ggcagctgct ttactgggaa 3000
 gaaaaaattg ggaaccatgt agagaggcaa actctcctgg actagtctcc taacatgggc 3060
 agccgtgcga attcgagctg gagttatgtc caagagcaga tcatggcttg cggtttcaag 3120
 ggcgtattca ggagtacaga agaagatggc caggcttcga acagtcttgc tctttggcgc 3180
 gataatttcc acgacgacgt ggctgtcttc tggcagagcc tgacgacact ggatctcta 3239

<210> 2076
 <211> 1612
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2076

ccaatatttt gtattcacat gtaatctact tcctattaac caatccctct tcatcaaact 60
 cgtaccgcgg ttcccgatcc tatcttgta gttctatctt ttccatcacc ctgtagtcat 120
 tagatgggga ccttaccag tactttttga agccgactcc ctcaaaacc tcatcgatc 180

ccaggatcat cggtgggggg gcacccctcca gcatacttct cttcagtccc tccagcgcgt 240
ccttaatggc cttcagtttc gcagcgacta gcgtccacgg atacgcgacc gccgcaaacc 300
ccaagctagc cagctcctta gcagaaagat tctccgtcat cctccttca atgatatttg 360
caagcatcgg catctgtagt tcttggaagg agcgcttcat tgcgtcgcga tcaggtaatg 420
cctctacaaa cactgcatct ggcgaatcc ctttaaactc tttcgctcga gctagggcct 480
cgccccatcc atgaatcaat gcgtctgtgc gagcgagaat aaatatatct cgaccctcgt 540
tgcgcgcgtc gcaggctgcc tggatccgag cgtatgcttc gccgcgagat acaacggatt 600
tgcccttggt gtggccgcag ccttttcaca agatcagtat taggcctggg cgaaatcatc 660
agtggaactg tgacagggga cgtacgtttc ggccaggctt ggtcctcaat cataaccccc 720
gctgcgcctg ctgcagcgaa actctccacc gtgcgcttga cattcattgc acttccgtac 780
cctgtatcac catcgaccat gatcggtaga cttgttacgc ggactgtctc ctgaatctta 840
tcgcacatct ccgccattgc gatgtagcct gtatccggga ggccatgtgt gctggagacc 900
gcgaacccgg acaggaagag cattgggaag ccggcttccct cgattagccg cgacgaaaga 960
ccatcgtagc tacatggaaa agcgaggatt ttggatctgt cggcgtagc ttcaagcatg 1020
agcgatcgaa gacgcgaggg ttgaagcgag gggatggccc cgcggctgtt ggggggtgat 1080
tgtgacgtca tttctgagtg tgaggtgaaa gagaaagggg agggagatct cgtcgtggct 1140
gtcattgtag aaaaatattg cagtgatttc ggttcttgta attgcgtgag gacatgaagg 1200
atgaggagag ttcacgcggg gtcgcgggtg cgtcgggatt tctgtctgta gtctgcaggc 1260
ggggaggcaa gctggagcgc tcatttggtg agaacaggat caacagtcga tctctcaggg 1320
cagtcgacgt caaaaactgc ctctttcacc tctcctccta gtccaaagat tttgactaag 1380
ttcagcccac cgtcttacac tgttctcgat atcatgggat gtacacgaaa tttgatatcg 1440
aataacacgg actctggacc aggaaaatgc ttcggggcgt gatgctggca ggctatcttc 1500
aattgtgttg caccattcca tagtgagtgt ggctctccct cttaccacg tggtcattgg 1560
aggtactgcc ttcgactatt gcgaatacaa tctagtgtt acttctcttt gt 1612

<210> 2077
<211> 1806
<212> DNA
<213> *Aspergillus nidulans*

<400> 2077

gcttgatgcg tccgcaggta accttaatgt agtcgcctgt aggcgtcagc acacttaatt 60
tactttttcac tcaggacaca taccgctgtg agtcgcagag actgtggccg agccgagacc 120
ggagccaata tgactccctt ttccggaata ctgaaactcg gatccatagt aaacaattga 180
tgtgatgtca cagctggact tgttgacagt gaatttcagc gggttgggag agttggcgtc 240
gatcgtgtag gaactgccgt tgtcggtaat gccaaaggcc gcattagcca ccctagccca 300
caagacggca gaggaaagaa ggaatgtctt ggacaacatg gtaaaagcga ttgtcgctcg 360
aggtgacga cgatctctgg caagcgtaga gcttaaatca tattcaacct ttctcagggc 420
ctcaacggac ctctgccctt gtcgctaagg actcttcata acccttcctg aagaggttcc 480
accaatctaa atgagacggc tcgaaaagag ccatacctcc gtgtcgaatt ggtcagtgct 540
agccaataa ggcgagtga agcggtgtga ccccatgct cttatacgtt cgaacgaggg 600
cttttgccgg gatttgtgca gaattgcgga gatgggctcg aaagtgggct gttggctccg 660
gtggatagtc tttcctgac aagacccttt tgatatttgg acatcaatct ggaacccttg 720
gcgagtcatt cattgttata tcaacctccg caggagctta atttagttta cgaacgctca 780
atggcggacg gacattcata cgcttaacaa gccctgccga aatgtctcct tctaccgcg 840
acatccgat gaggtcgggt cgattgaggt ctggtgaccg gaggtcaggt tttagtcgtc 900
cgggggtggc tgattgtgaa ccctgtttaa tatgctggaa gctcgaattt cgccctgaa 960
tgatatatgt cgggtgtgtg tgcggtctgt ggagcggcag ccatctatat gagacagccc 1020
aaaccgcaa gaggcccgaa cgatatctta ctgcgttttc tcccaactag aaatagcgtc 1080
acgtctctgt aaaccataac gagaaaaggg tccagacggc tagggcaaac aagttgaata 1140
cggactggtg aacatgttct ctccgccca atcatgatct taatcgctg gatctggcgt 1200
tttgtttgtg aaaggaaata acttgttgct ttccgctgag gttcctcaaa tgggattcag 1260
ttgaaacttt ttacaagcct ttgctagaag gcgtcctgca cagtccttgc agagcttggc 1320
tgggctctag tcgggaacag ccacgagaaa ccgccagctc gtgtgcaagg gaaaactttc 1380
actccacctt cgacgcagcc aaccatcgag cgcagcatgc actgctgatg attgatgtcc 1440
atgagcttgc atggttcagg ggtcaacatc gatttgttca cctgggctgt cgcttccttg 1500
tctcgtcatt ggccaacaga acattccaaa tgattcaatc acattccaat cttcagggtc 1560

gcaacgtggt cggaacaag ggctttcggc accgataaga agttggggta ttcattgtccc 1620
 atattaaaca tcctgctact ggttgatgaa tccaggcttt cagccgtagg cgtgggtgat 1680
 gtgcgctttt acgtgccatc tggtagagat gtcgggagac accaatattc tacacgaacc 1740
 atgggtgcgtc tccatctaga tcaggagagc ttgtgtcgca tgtcggattt tactactatt 1800
 cttgtt 1806

<210> 2078
 <211> 2229
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2078

gcgcgtgtgt ttttttccta tatacaaagg tcatacactc gaactattac atttgatcat 60
 acagcaatgc agatcgtctg gcgcggctcg gccgatccgg ccgtctacga agaagcgcgc 120
 gtgggccggg tgtttaacaa ccgcgcctct gatcgatacc caatcgcggt cgtaaggcc 180
 agctgcaccg cagatatagt ggcagcagtc aagctcgcca aggagaggaa ttgccgcgtt 240
 gccgtacgct ctgggtggca ttcctgggct ggggtggagtg tccgcgacga gtccatcctc 300
 gtcgacctgg gtaactacaa gtacctcggg gtggacgcgg aaaggtgcat agcttctgca 360
 tcgcctagca tgacgggcaa agagatcaat ggacggctca tccatgagta cgggctgatg 420
 ttccccgggg gccattgtcc ggatgttggg ttgggaggct ttctgctcca gggaggcatg 480
 ggatggaatt gtcgggtagg tcatctctgg atctctttga aatcaattga aagtagttca 540
 gtcaactaac ccgaggtgta gggctggggc tgggcatgtg agcgagtga ggcccatcat 600
 gttgtgacgg cagagggcga actgctgcac tgtgaccaga gtcagaacga ggagcttgac 660
 tgggcagcga gggggtcggg ttcagttatc aatcacatcc caaaagccct cccctttcac 720
 tgccggacga tgggctcatg accgatcttc ttctcgcaat ctgcaggctt tcccggcatc 780
 gtcacacgat tccatttga aatcctcccg tatccgaagc atggattccg ctcatctggc 840
 tacgtctatc cgatcagcaa gtaccatgaa gcgttcagtt gggtccttgc aataaccccc 900
 gactttgacc gcgataccga gatcacctg gtaagcatgt acccagaagg cagcgagcag 960
 atatgcctct tcactctcct agtgactctc aaacacaccc catcggaggc agaggcagcc 1020
 ctgcgtccag ccagcagtc gcgtcctcct ggtgcaatcg aggagtgggt ctgccgggaa 1080

gatagtctgg agaaccagta taccaaccaa gccaaaggcca accctaaggg ccaccgctac 1140
tgccgagaga acgcctacct gcagaacgaa gccgatgtcc ccagcgtgct cgaagaggct 1200
ttcaccacac tcccccatcg caaagccttc gcgctctggg acgcaatgaa tccatgcagt 1260
cgccgccagc tgcccgatat ggcgttgagc atgcaatcgg atcattatct tgctctatat 1320
acagtctggg aggaagagga agatgacgcg cgggtgcatgg cctgggtgaa gaacgtcatg 1380
aagaggggtgc agcggcactc tgtggggggcg tatttgggtg attctgattt ccaggaacga 1440
cagacaagat actgggctga aagtaatggg cgccggttaa tggatatccg tcgtagatgg 1500
gaccctacag gcaggatctg cggatatctg gaccacggcg atgcttcggg accgcggggg 1560
ttagaaaacg ttcatgaatg ggaagtagag gtgccggcat ccagctata gtatagtata 1620
tttcattatt ataaatacac gacgactaca gaccagttt ggatatatct gatcgtgcct 1680
ccatgaacta gcataatc ccatataact aaaccttgga aatatggcta cttagtatca 1740
ttgtccaaag tgacgacaag aattatctat gtccaattgc ccagaaaaaa aatatagaaa 1800
tttagaatat ttgaaaaggg taatcgggaa agtggaggac tgtcgggtag tctccttgag 1860
tcccgcgcgg gggcatggag gagatatcta cgcaccta gactggctca cgtatctttg 1920
aggtctcaat ttggaatcta ccgctgctta cacagttata tcgtatatac tgagactggc 1980
cactcgcgtc agtcttgcca tatccactaa aatttacttt caccatgcc atcacagtga 2040
agtcgtcca gggcaaagtc gccatagtca gtggctcctc ctccggcatc ggagcagcca 2100
ttgtgctga gctctcctct agaggcgcca acacggctgt caactatccc ttttcaaata 2160
ttcatgatga agcagccaca ctggtctcct ctctcccttc gcctgcaatt gctgtagagg 2220
cggatatgc 2229

<210> 2079
<211> 3041
<212> DNA
<213> Aspergillus nidulans

<400> 2079

gtacttggtta atcatgataa cccctccac tgcgtccagc cttccgcgaa ggactcctcg 60
cgccacctga ataaccagcc tcttgaagca tatgagaacc tgtcttctgt tagatgattg 120
gcggtgctaa ggtagatgga aaagggatcc gttctgcca cccgcacgc gcagcacggg 180

aattgagcag atgttgaaag gtttggctcc tgacgactgg cagtcgaagt ttgtaggaat 240
ccctgaatt cagcagtgat aactcaagct gtcggaaga aagatgagcc acaccaaga 300
acataactct tggtgaccct atactttcag tccaagctca actcgggtccc attccagcac 360
accactctct tcatttgccg gtttgtgctt ttctgggttc cgtatgttcc ttttgttatt 420
cgttgtagg attttctcca tctgtcatta ccatccaatt tggctctggc tgtcgtataa 480
agcaatggga tgacatctct accgtagagc ctacgtccta acaaagccc agtatctcga 540
ccacccaaag tcaaccatag cggtaaggac accatctatt acggacacag actcggtgag 600
aatagtagct cgcgtcctat gcagacgct atgtgcgcgc cggtagagca ggacaatgcc 660
cagccacca gactttacc caataaatct tgtcgagaac gtttactggt cgatcgagag 720
catgagaaca acgacatcgc ataggaagcg ttgtgacggt acatagtcta gaaaatggtc 780
aagtgtattc gagctgtaa agatgagtg tctcgatgaa gtttgtttt taaacaaggg 840
agggttcact ctgccaagga acggtgttag tgatcgctct gctgtggacc tggctgtcaa 900
aacgcagcaa attaaaacta aattaatcac gccaaagcaac tctatagggt atagagtatg 960
tcttgtctta cgtggtcttc gactggatcg gatcggcaga agacacggcc acgcgggctg 1020
acccactggc tagacttatt tggctctagc tggcaggaa tcaccgctta gtcatgatgc 1080
gtccaggctg gatccggcta agcttcggag taatccatgg tttggggcag tggaaactgga 1140
ttgatcagga accgaaggcc gaactacacc caggcaaatt tgacagctcc caaggcatca 1200
tgatttccag tccggaaaag gggttcacc cgacctcgac tgaggcatac aagccgtctc 1260
ccactatgtt tcaagatcac ttccatccag tcggctgctt caccaccgcc tcccaatcta 1320
tccccctccg acagcgaacc gccaggacgc catcgccatg actctgatct taccctctg 1380
gattttgttg accctcgccc tagtcgcaat cgccgacgag cagaccgact gcaacccct 1440
caacagcacc tgcctgctg atcctgcgtt gggcaccgag catacctggt ggttcaactc 1500
cacgctcgat gatgctctct ggaacatgac aaccggtacc cctgactata catctgaagg 1560
cgccgagttt tcgatcaaga cggagaacgc ttcgacctg ttgcagtcga acttctacat 1620
cttttccggc gtggtggagg cgcacgtcaa gatggccaag ggcgccggga tcatcagcag 1680
cgtggttctc cagtccgacg acctggatga gatcgattgg gagtgggttg gatacaatac 1740
gagcgaggtg cagtccaact tctttggcaa ggggacacaa cgacaagcga tcgaggcgga 1800

ttccatccgg cggcgggatgc ggataccgag ttccacaact acaccaccta ctgggatgag 1860
 aaacgtctgg agtgggtggat tgacggggag ctgatgcgga cagtcaacta ctctgagccc 1920
 ttgacgggtct acggcaagaa ctatccgcag actccatgcc gggctcaagat cagcgtctgc 1980
 gccgcggggc tcccgcgcga gtccgatagga aatattgaat gggctggcgg ccttggtgac 2040
 tggctctgacc tccctttcac aatgaccgtg caacgggttc gagtcaagga cttccaaagc 2100
 gccaaagaat atacctattc tggacactcg ggttcatacg atagtattaa tatcgctcagg 2160
 tcagtctctg ctgtacatga caccaatttc agaccgagta gctaaccctt acagtggaaa 2220
 ctgcaccgcg aaaatagaga ttaataaggc gccttccaag tcactatccg agaagtggga 2280
 cgagcttctt accgcggccc atattggagt atactgcggt gctgctgttg ccggcgcctt 2340
 ggctatcgct ggattcgtgc tcttctgcat ccgcaaacgc cggcagggcc gcctggaacg 2400
 cgcgcttgcg gaaggatcac agaccacgtc ggccaccgag atggacactc tgaagaaaca 2460
 atggaggcag agcgattgga ctgccagcta tagaccgctc aatcaacgac cttaaaggag 2520
 tcgccttcgg ccttttcttt tttcttttcg acaccatgaa tagacatgct tcataggggt 2580
 gaggatctta ctatgtagat agacactgta gttgttggtt ggaccttttg atagaacact 2640
 gggcgaggcg ttcgaattct gatataattt tgcgagcaca ggttaccctg acggcatagg 2700
 acattggagt cccttcgagc gcgtgctggt tcagaaaaaa tggaatggac cagataagtt 2760
 ggaggacacc ttggctactc tgggctggcg ggttgatag aatgttgag aacaaaccaa 2820
 taatcggtcg gacgaagtac gaaatcgaga aactggaatg gacttgtaga ttaccagttg 2880
 catgcacccg ggtgaacata caggagactg gcccgccaa gagcttaaca tgggcaacaa 2940
 actgctgcac cacggagcgg ctctctttga acccgaccgc cagactataa acgggccccg 3000
 aaggcttttg ggttttggcc ccagagacac tgtgactgtt c 3041

<210> 2080
 <211> 1363
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2080

accgacgaga caggccttgg acatggcgat tgagatcgtc aagccaggtg tgccgattcg 60
 agagtttggc aggattatcg aaaagcacgc agcctcaagg ggccttgccg tcatcaagac 120

atggggcggt cacggtatca actcggaatt ccatcctoct ccttggatac cgcactatgc 180
 aaagaacaag gctgcgggaa catgtaaacc tgggatgacc ttcacaattg agcctattct 240
 caccctgggt gccaacggag agaagtactg gccggatgat tggacgaatg tcacgatgga 300
 tggcaagcgg acagcacagg tcggtgagta cacctttcca gcaggctgat ccaggcttct 360
 atactaacat gaatatcgac agagcatact ctgcttgta cagaaacagg cgtcgaagtc 420
 ttgacggcca gacaggagaa ctctccggga ggcccaatcc ccataccgga ggttgtaaatt 480
 ggagttgctg acggagttgc gaacggagat gcgaacagag atgcgaacgg agctgctatt 540
 aacgaaagct gaagaatgag cggcgcttga gtagattagc cggtcacaga ggggataccc 600
 aggtgataag gatttccatt gtctgcagat tttgaagctc atgcttcttg acctgaacca 660
 cataattaac caaggacctt atataactcc ccattcacta cccagtccca gcaacaaaca 720
 tgcaatagac agctttaagt cattgggggc gcggtcggcg gtgcaaaatg ggctctatcg 780
 agctttgatt gccttaaaga tttcaaacc gggtgataaa ctctggtacg gcacacctca 840
 ggctccaaca ctaccagatg taatcgctga gcattttctt ctcgtcttat cctacttctt 900
 gtatgcaatg aaactgctct gccaaactgc caaagggta agagacacct agcccgcgat 960
 gaaagagtac tattaatctt gctactagct ctgcacgacg cggatattca caattatgcc 1020
 ttctcccttg cctcgatcgc cttgtgctta cccttgtttt tgtgaaagta ctccctggacc 1080
 ttggctctcg cgatttgac tgccatggca tcctccaagg tgcttgggac atcaacttcc 1140
 cgatccagat ctccgtaaac ccataactct accaactccc aagcacacgc cgtaaaatca 1200
 tgccggacct cgttttcggt atcatgcgtt tgccctgtac tataccttcc aaggacgcaa 1260
 atgccccaac ccggctcctg acgagcgact gcacctctcg cgcgacagtt tctgctggta 1320
 tggcagagtc tggacgatac ggcattggaga gggagatgaa tgc 1363

<210> 2081
 <211> 3483
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2081

gggtttgagt gtgggatgaa gccccggggg aagttggaaa tgatgttccg agccgtccag 60
 aaccctagtg gagatagtg gaaaaccttg gaacctatgg cagcagtggg acacaaagcc 120

tttatcgacc ctttccaaat atggttaagg ttttagccag tcccagggtc ccgtaggctc 180
 aggaaatccg aatacagggt tgcgccacca gtcaggacct cggttcttgg attacgcagc 240
 cgtgacgtta gcgaggetca agcggttccg attcatacag ccccggatta tttgccgata 300
 gtacctcacc tgattttcgt cgttccacag tggctttgta gaggtcaggg tccaaaacgg 360
 caccggtagt ttaaagttgc tccaaaaagt ccaatagaag cttgggcac tctcgtgaa 420
 gacaagccgt tcgtcccaag gccttgcacg acagattccc ggctcctgac gtcgtgtcaa 480
 tggtatacct tcacgccgt tccctcggca gacatttgtt ggtcactgaa tcagccggct 540
 tcggtgggtt tagcaggga tccagctcag ttgacacaga acagcgctac atgtcgaaac 600
 cctcttgctg ctggtcttgc acagatccat ggcacgtac accgcggtct ttgttcagac 660
 gacccgatat tgatatcgtt ggggaatgcg aaacatggga acgtagtcgg gaaagttggc 720
 aactgtttt aggtcttcgg ccatgccttt cggaggatag cggtcgagaa ggacgggttc 780
 gaatctccgc ttcaggggat gcatggtagg ggagatttcc aacggctggg gtgctggaat 840
 cacagaattg tagttgctga ggcgtcgcga ggttcgaatc gatgctgcaa attattagct 900
 tgcttaacac ctaatctgtc ccacctgaga aactcacctt ggcgcgcaac cgacggctgc 960
 ctcttcatac tgttcatgtc tcggaatgac atatgtcgtc gcacgcttcc gatactcgat 1020
 cgaagtaaac cagattgttg tggctcctcg gacacgatct tctgtgtgctg taatctggac 1080
 cgaggccggg acgcgggtgt gatcgacccc gcgctgagac tcagggtccga cagaaacgtc 1140
 tctctctcgg aggcaaactt gaccaacgct ttatcaaagt cgaattcctc cagacctagg 1200
 aattgagaag cccgcggtga cgcagcactg ccgttgccgc ctcccttgat tgtcatgcta 1260
 ctgcggttgc tgtgcgtacc gttggcattg ccattggcgt tctggtctgc atcttcggac 1320
 cggaaggaga gacgctggaa ggagccgcga gggccaatga ccgaggagct tcgagagagc 1380
 aggccgtcga agcgatcgtg agcatcttcg gcgtcggcat cttcctcaat gatatcggtg 1440
 accgcggggc cgggcgcagt ggtactgctg gcgattcggg attcgtcgcc tagcttgctg 1500
 aatgtgtcga gaatctccga gccgtcaaca ccagcgatcc agaagtagtc tgcgagcggg 1560
 ctggctgacg tcgtctcggc ggcagaagag gatgtgggaa agggcatgtt gaggtgagat 1620
 ggtcgggtcg ggtctgcggg gttgagatca tgaatcgttc aaggaaagtc gtgggcttcg 1680
 tcacagcatt gagtcgggaa accaatcaac agatgaatcg ggcggctcgg caacgacgga 1740

ggggagaggt tcgaaagtga gttcaacgat cagggggcga aaagaacgga caggaccagc 1800
 ataagtgtgg gattgcgacg ggatcgcgca gtcgggctgg cggctggtgg ctgcaagtag 1860
 tgcaagtggg caaatctaca aggcagatag ataattggaa aggagagaag gtaaaaatag 1920
 caaagggaaa aggataggac ggccacagag ataaaggcgg agggggcgag aagtgggtgg 1980
 ggaggagaag agacgttggg gggcgccgat ctggatggag agaaaaagga ggtggagggc 2040
 tttccctaca cagtagtagt agtactacta gtacctaggt caccttcttg aaccggctgc 2100
 aactaccga taaatatagc tcatgatttt cttttgactt tctctattct tcttcgcttc 2160
 ttgctcggt gccctgttta ctctccagca ttttcactct gctgggaatt gctttttcgg 2220
 caggttgctg agaaggggca gaatggtagt ccagcccagc cagccagcca gccagccggt 2280
 cgacagccct ggccgagtcg cagcagcaag gacctcctgg cggcctggct tactggatag 2340
 atgctacgac agagctcgtc tcttgagtc ctgactggta ctgtgcgaca gtttcagatc 2400
 cgatgcagga agaaaagcaa ccgtggccag cgtgtccatg cagtaccctg ccctgtaatc 2460
 atggccccgg gccacggac ggggtatcag aagcaaaagc aaaaaagcaa gcaaaagcaa 2520
 agccaaagca gagcaaaagc agagcagaag cgttctggac accttagcac cgctcttgtt 2580
 gaggccgact actgcaagtg tgcgtcccta gctgcagcc accaaccacc cctctggctg 2640
 ggaacctaa gaaacctgct ccgcctttca ccacgttgag tctgtgacta agtacgtact 2700
 ccgtataact ggtgtgttat aacctccatc actagcacca ccccgctcca tcagccagtg 2760
 ctgggacggc ccaacttcga agtggggtct actgctagag tggactctgg agattgaacg 2820
 actgttcgag ccaaccatgg atcgatcgtt tcgaacaata tggaacaaat tatggctctc 2880
 tctcagccga cgaagcggaa aataagtacg aatgacgacg atgaccgagt caaccagtct 2940
 atgagcgagc cgtccaatgc cgtccgctc acagagagtc aagagtcaag agtcaagccc 3000
 agatgccgag gcagcccgtt tgtctccaac ccgtccacgg agaccccatc gatgatgcct 3060
 gcctaaaaca gccgctccat atccagctct tggcgaccgc gtcgaccggc ggcgaccagc 3120
 gtcgacaaga acacgtctgc ggcaactctg ccgaagacgc agcatacgga gtatgctttc 3180
 gattccctac acccgctttt attctgacat atttcgagca gaaagcatct aaccgggggt 3240
 gcgatctgtg atctggagtc ggtccggac ttgctggcaa atcaccacga tcaactgggct 3300
 ggatcatgaa cacttgactg tagctttctc atagagaacc ccacttttag cgtgttggt 3360

acactccggt ttttttttac cgagttttta taaatcacgc ccccccttaa aaaggaaaaa 3420
 ttggactgcc ccatctttgg gtggaccttt ttttattcat cacatcctgg tttgttcata 3480
 tat 3483

<210> 2082
 <211> 2196
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2082

agtcgcgagt tgtatTTTTg accatcccgga ccgacacctg caggcaccac agttagtccg 60
 accttagctg ggtctggtgc atcgttcgat tgggtcccgga ctcggtggtg ttgagtaacg 120
 gagagcccgcg atcgagaacg ggcgacataa ccaatgcagc gatcgagacg ataaagacga 180
 actggctggg gatcggtcgg gagcggggta attccgaata cttcaccact ccagattaga 240
 cgattaccaa gacctgaaaa gggaaatcca atactcactc gctatgtgaa agcgtcacac 300
 cgctttcgaa tggtttccct ggacgctcgg ctgcactgct gataaaagcc tgttctggtc 360
 gtaccgagtg ccggcagatt aaacaggcga ggaacaggta tagctcagaa tgatctgctg 420
 tgtatgtatc atggataaca cttgattaag caccatcatg cgatagtcga ctttgccaac 480
 cagagccagt cgtcttggga aagccttgcg cgttcagcgt tatcttcaac tcactaaaga 540
 gaaggcaaac aagccaagaa atagcatcat ggactcgcgc tgggtcccg caaaccaga 600
 acacattgcg ggaccgctct tctgatccgg ggttggtcgg agattcagcg tacgggatgt 660
 cgtgcacatg tgcgttcgtg gtcgccgagg ttatgcgaag atctgaaaca cgttggagat 720
 ccagaatcca gggaattttc tgtatatcat cccaagcctc tccagactat gatggttaat 780
 aacgtcagtc acgatcaatc gggaaagagt cgcgagttgc gagtcgccag tggtagcagt 840
 gtggcggggg ctaggtacct gacgttgagg gtaagatcgc acataattcc cgctccacca 900
 ctcccctcga gtcgtccaac aaattcggtc ttctggccaa aatttctgt gtggaagttt 960
 caagaaacca gattgttccc taaagtagcc taaaagtagc tattgcgctg agcagaagca 1020
 gagacagtgt gtgatcagac aaggtagac atcggaatag gataggaccg atagatagaa 1080
 actaccctta tcgtaagcca gcgttgcccc gccatcccaa ttcggttacg atttttcccc 1140
 agagtccagt gacctatctt cttctggggg aagggtggat taccaatata cagtggacat 1200

aaaaaatgtc tcttactggc tcatccatgg aagccggctg accttagcgc tggctcagac 1260
cgtoccaaat tcccagttcg actcagttcc cctgaggcgt gttaatcgat tgcgggctgc 1320
ccttgtgccg tcgaagagcc cgaggttcgt cgatcctgtc ggcgggggac ttgatttcat 1380
atgctttgga ctcttaggag ggtcagcttt caccaggcga ggcgtagagt taaatcgacc 1440
gggtcgccct ggtcctcacc ctccaacaa ctcaactcct tctaacattt tctctggaac 1500
actttggtct tttatttacg atggcttacg tcggtcacac ccctccagga tggctcggca 1560
acctgtcggc ggagcaggaa acgaagctgc agcagatgtg gaatatcgtc ctcgctcctt 1620
tggacgctgc ctcgctgggc gccccgagc aaccgattga gaaccagagc ggagaggccg 1680
ggaaatcgcc gtcaacactg gcccgcaccg atacctttgt ctgagccagc ggcaagagcg 1740
ccttcacgac gcacttgtcc cagaccctca aagaaaccgg cctgaccagt aacgagatca 1800
agtcgatcaa ggagattctg cacgatacca cggcggagga gctgcggggc ggcttgcctga 1860
gcaccgcaa aaacgataac ccagacgctt tattgctgcg gttcctgcgc gctcgtaaatt 1920
tcgatgtcgc caagtcgttc gatatgatgc tgcggtcgat gttgtggcgg atcaagcagg 1980
tttgcgtcga tgaaaaggtc ctgctcaata ccgagttgca cgctctccgg gagtccaagg 2040
ataagtcgaa accccatgaa gccaaaggagg ccgaagggtt cttatcccag atgcgcatgg 2100
gcaagtgcta ccagcacggc acggacatgc atggccngcc ggtgggcgct ttgcgggtga 2160
agctgcacaa gccttcngct tagagcactg aggctt 2196

<210> 2083
<211> 532
<212> DNA
<213> *Aspergillus nidulans*

<400> 2083

cacttggcag actccggatc ctccagagcg cgttgtcctg aaacgcgatc tctcccatgc 60
atcctccccg gcagctccgg aaacgtcctg gcagctttcg agaacaatgt cgcagacgga 120
caacacacat ccaacctccg gtccctggatc cgcctcccaa ccgccagcta tggttcgttc 180
gcagagtcaa caggttccag tatcgtagca acatcctacg gcgtccatgg cccaatatcg 240
acactctcct ggataccatc gtcgccactt gcagaacgct agcgagtact caccggccga 300
gttcacgaag caatatttgg gcagttttga gggtcagtcg agcgtatctc caagtactat 360

ggcgtttcca gcgagtcctg tgcaggttgg ggggtcaaat ccgggttcat ttgccagtca 420
 gttctttcag gggcagatga gcgtaagac tctctgacta cggcacccgc tcaatccgtc 480
 cctatgaccc gcagcggtag aacagactct ctatgtggac ctatgggtat ga 532

<210> 2084
 <211> 4123
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2084

ggtataggat taaggtgaac cctatgaagt aacgcccagc agcaggggaac aagaatgatg 60
 ttgggtgcac ggaggagtag ccaaccgata aagatttaag cacggaaaag aacaggtaaa 120
 tagtgatggg ccaaaaagag gagccccgaa agggtgacaa aagacacggg agaataagg 180
 gggggtagat taaccgagag accaaaaaag aaaaagtctg ggggtggaga gtttagaccag 240
 accaatcctg agacaaagga agcccgcccg ggcagtggag acgctcatga ttccagggga 300
 ccaggccctg aaggctttct tgggccaccg aacggacgcc ctgcgactgc agttcgtgta 360
 ctactcttc gggcatttgt cttcttcga agttgcgact ccatgttccc tgggcttgcg 420
 cggcctcctc cccaatgtga aacctatctt tcaggtagct cgtctctcca ggacgtgccc 480
 gagaccagaa acgggtaaag ttgtctttcg acccagaagc aagaatatga ccaagaggg 540
 gccagtccaa agtccagata gttgcggcgt gcgcatactg tatccggtgg gctgggtaga 600
 tgacttgagc gggcgtgttt gctgggtcag ggctgtcata tggagcgaca gtaggtatct 660
 ggcccgtgg cagattaggt tcatccagca ggtaatggta taaggatcca tcttcgctac 720
 cggtcgaaat caaagagcaa tggactggat gccatgtaag cgtagatata ggtttttcat 780
 ggccgcggag aatgcaaagt tcccgcacatc ttccggagatc aaacacccgc gccgtctggt 840
 cacgcgatga cgttgcgaga aggttggtgt ttaccgcga gaatttggtg gcggtcacgg 900
 tgttcttggt gctatggagt gttgtcaagc aacgggcggg acgggggtcc cagaatttga 960
 cctggtggtc cttcgatccc gaaaccagga gaccctttgt cggatgccag tcgcacgatt 1020
 tgacatccca gttatggccg gtcaggacgg tatcgcatgt ccttgctgtg aaatcgtaaa 1080
 tcttgagagt cgtgtcatcg gaagccgaaa ggaattttgt atcgctaggt gaccacgcta 1140
 gatcgcgcac ggcgatcatg tgtgcgtcgt ctatcgtctc gacgttattg aaatttggtc 1200

tccagtattt cacatcgctt ttctgtccac cagagatcaa ccagtcatta ctgtgcgacc 1260
 atgctaagga cgtgaccccc gcttgcaatt gatcatagtg tgccatagatg attagcctcc 1320
 gaatcccca caagaaactt cgacctacat ccatgaccgt ctcaaaatta aaggctgtcc 1380
 cattccatag cataaactcg ccagtgtgtc cgccagtcaa caagcgcctt ccttccggtg 1440
 tccacctgac gaccgtgatt ggcttttttg actttccgat ggattgatgc agatgtcgta 1500
 cggggatcga gtctaccggg gagtgtattc gtgccagcgg agggagcatc tgcgatagca 1560
 aaactgttag ctttgtgcct tttcaatgta gacaacagac actcacatcc accatgtaac 1620
 tggcgcttgg tctttcagtc tccatccgat ggccgccctg gtatttcgga cgccggttgc 1680
 gcatccattg taccatcgat gatccataat cggttacgag ccttgcgagc ttttagcgat 1740
 gtccaggggg agcggcttcg gtaacatact aggtcgacga gggccttgaa tgccgccctg 1800
 ggctctgccg aacggctgcg agtcattccc accgtcgtca taataggcca ttgcgataag 1860
 aggttggggt agcagacaaa acgatggacg aagtctgcga ccatggcagg gtggaggcgg 1920
 agagcttgac gggccgacgg gtcacggacg cactgataag gcgaggtcgg tctagtcagc 1980
 tttggcagcc aagattaatt tcgaatagca acgtcgtcaa atgtagctag gatgcttga 2040
 ataatgctag aacagttgca gcgatttgag acgcgagacc aggcgcgaag aatgattggg 2100
 tcgggacaca gctgcctccg acgctaagcc gcgttggcca cgacggccca aggcctcgaa 2160
 agtccccggc caaatgtgcc aactctcagt cgctggaaga ctggatccag aggtccaggc 2220
 atgcagatgg aacaacggct cttctctccc ctgtctctt agtctcgccc cttgaggcct 2280
 atgctcgaac ttacgacag tattatgaga agcctagata acccggcgt actcaagttc 2340
 ttctcctctt ctcatgtcc aactctgctc tctgtctgta aacttgcgcg ccaaaccatc 2400
 tcctattgtc aattgacctc tcgtgggtctg tcaatctgaa tcgtgatata tatccgatgc 2460
 ttcgtcatcc ccactttatc cgcagggtcg agtagatgcc acagcacgtt ctgcgatttg 2520
 atattcggtc gcatctattc atcatttatc tttatcctta ctgtctcgta tattcaacct 2580
 gcatcgtaa cacgtttata gagggagatg gccgtcgagg gttcgtcgcc tgtggccgtg 2640
 tccaccaacg gactggcac tgctaataat accaatcatc ttaatggcca ttctctaat 2700
 gggtaaaga aaatggctac cagaaagaca gccatttatc gacatgctgt ggctgttcac 2760
 tcgcaagtcc agcactcatg cctcagcagg gactcgacca aggctacgag ttttattgga 2820

ttccggaacc tgatggtggt cgtgttgggt gaggatatcg tcgtcttgac tacattgata 2880
 ctatgctgac tctcgatagt ggccatgaat cttegcctag tgattgaaaa cttccttaag 2940
 gtgagcttct tgcatatgac gcaatggttg ggctcgttta acaagccgta gtatggtggt 3000
 ttgatttgca tcagatgtca tgactatcgc aaacaagacg ttgtgatcgg agcgattctc 3060
 ttcgccctgg tcccttgcca gttgctatgt tcgtacttca tcgagttggc tgcttctagg 3120
 catgctcaac gcgttatcgg tcgagcaaag aaacaggaca aggacaggat cctgaacgag 3180
 tctaaaagga cttgggtcgc cattgcgctg ctgcattcta ttatcagctt ctttgggtctg 3240
 gctgcaacaa gctatgtcat cttctactac gtcaaccacc ccgggatcgg cactgtctgt 3300
 gaagtccagg tgatcatcgt gtcgctaaag tcgtactcgt acgcactgac gaatcgcgac 3360
 ctacgtcgcg ctatgctcgg ctctccgtcg gcggactctg atatcccaga actctaccgg 3420
 tcttgtccat atccgcggaa catcacctcg ggcaatctag catatttctt ttgggccccca 3480
 acgctcgtat accagccggt ctatccccga acgcctcgca ttcgctggtc ttttgttggga 3540
 aagcgtttat tcgagtttgt ttgtctctca gtggttatgt ggctactttc cgcgcaatat 3600
 gctgcccccc tcctgcgcaa cgcgaccag aaaattgccca cattagacat tgcattctatt 3660
 ttggagagag gactgaagct ctccactatc tctctcgtga tctggcttgc tgggttctat 3720
 gccctcttcc agtcactgct gaacggactg gctgagatca tgcggtttgg agaccgcgag 3780
 ttctacacgg actggtggaa cagcccaagt tttggcgtgt actggcgatc ctggaatcgc 3840
 cctgtgtata tattcatgaa gcggcatgtt tacatgccgc tcgttaccgc gggctggaac 3900
 ccaacgttgg caggtaccgt cgtcttcgcg gtttccgccg tgctgcacga gatcctggta 3960
 ggagtcccta cacataatct gattggtatg tttcctcgga cacaatccta aggctcttgc 4020
 tgacgatgtt aggtgtcgcg tccatagcga tgatgttcca gctcccggtg attcttctga 4080
 ctgcgccttt cgagagggtc aaatcccctc tgggaaaagc tat 4123

<210> 2085
 <211> 3605
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2085

gccaagtaa ttgcatctga tctctttgac gaagcgattc acctggccag cacgtttcaa 60

gtggcgggat ccagctaaca tattggcatt ctagatgtca ttgctgatat ctgcttggtt 120
 ttatatccaa attctctttc aggaagacgc tcgaagtaca agtcttcgtc ggtttgtgtc 180
 ctgagctgtc ttactgtttc tgatatcgcc attcatcttt ctcgatgtca atataactct 240
 ctcgaggagc agagtcttgg ggcagggaat ggagagagca ggccagttta ggccaatata 300
 taaataagtg gtgtctaaat aagtgggtgt gtgtgggtaa ttctaacggg cagatcttcc 360
 catgcgtgtc cataggcctg atcgttcgac aaaaggcaca aagacaacta atcagggata 420
 tccttttctt gccacaggac tctattcgaa gttgccggcg gatgacctta acggacggat 480
 ttctggcaat gatgggcctt cgggtgctgg ggatgagatc ctagaggctg gaaatcagct 540
 gtaattatta gttcacaat gcctcaccgc ttccttggga gcatagatga atgttccagt 600
 tccaccggg cagactttat ttatatactt atacttacta tcttcaatgt aagtaacaac 660
 ctgttgattg agaaattcga atgggggttag ggtcgatata gggctttgtc tgcaagaaaa 720
 tcgagagtct ggtgagagat cgctataagg cagaggagga gagcgatcag gtgaatgaga 780
 catggtgaag attgttaaca aaaaggacga attagctgac aaacttcaag gtcaattttc 840
 taactaaact ggatcctgga cgttgcaggt gtagccaggt aagccgttct atagctgagt 900
 tctcagcaat tcgagagaaa aagtatcata ttccacgcca taccaggaca acattttcac 960
 ctgtaataaa atctacaggt caggaaaatt tgtcaaataa agaacaatac gaaagagAAC 1020
 attgattgag tgcgagctta cgaacttaga gaacaaagcc atgttaaatg tctcaactta 1080
 tatagccttc cgctagtgga attccaatca ctccacacc aagtgtcgg ccatatccgt 1140
 tacatgttca agactcaatt attaattaac ctagcctggg aaggttagt caggtctgct 1200
 ggctcggggg cactgcctat tactgactag gtagacgaac cgcgaactgg acataaaagg 1260
 acagaaaccc tccttgcat tgcctaata tcagattcag ttactatat gctagacgac 1320
 ccaactcagc atacttcaat ttccaagccg aaggcaacga ctatcagaac gatgccatcc 1380
 ctggagcacc taccgaacga aatcatagac tccattgctg tccatcttga attgaacgac 1440
 attcgcaatc ttcactttac tagccgatgt ttagccctag ttctttcagt tttctcccaa 1500
 cagtctgccc tacctaggat cagcggggag ccacttcaag tccttcttcc gacgcaaaca 1560
 agtcgacctc accgaacatg cacttcgga ttttgaaaca aaaactgatc gcctgggtcg 1620
 ccctgggtgc cctgggtgcc ttcttcaaga cctgggtcctc gtttgggttg tgaacaacac 1680

aaagtggctt gcaaagcggc ttaaggactc gaaaaatgag ggaacagaag acacgccatt 1740
 ggccagaaga acaagcgaaa gcacaattgg acctaagcat ccttatgcag cggcaaatat 1800
 aatctgagag aatgcgcgag tcaggaacag acgtgaaact gctcaccaaa gcattttgca 1860
 acctcattgc agacggccgc aaccctgggc ttcaatcact gtcgctaaaa gtggtagtat 1920
 atcgagtaga tgccgagcaa agacctctc ctgatactgg gggcagctgg atgcttattt 1980
 ggcgagctgc gggtagcgca ttccacaccg caccgggggc tttggttgcg agtagaacgc 2040
 tggttgaaag actcgatata tataattgcc agcaaagctg tagcttggcc tgcaccgagc 2100
 taagtgccat tgatttcgag tgcaaaggcc tggcagaaga cactatcaat cagctactca 2160
 gaccgcatca taaacgtacg gaaagaggac attggtgata cgggcaactc tgcagacgaa 2220
 atcgaccatg atgcatctgc cctcgatgat tttagagaag atgatgatat cgaggtggag 2280
 gcgtgcgatg agataaactt tcttagtctt gcacgactgt tgaagctctg cagtggctctc 2340
 gggaatccgg aactgcatca ttacgcaatc ccattggatg attaccctta ctctgattta 2400
 catggtgacg tgttctgca gcacatagtt gcgacggttc agctgcccaa gctacagcgc 2460
 tatacacttc gaagactgcg tgttcgggaa gtggacctgc tgggaattctt gaaagaaaac 2520
 cagcctgcc atcgaagttt ccagatggac atggtcaggc tggctttggg aacattcagc 2580
 tccatttttg actactgcac gagcgagcac gccgggctgg aaaggctcta ttttaacgac 2640
 tcgttcgctc cgggtagttg ggtcatgcgt attatgatag ggaccctagg aagcctagac 2700
 tgataaattt tgacgacctg ttagcaata ttttgatag gataggacct gaggtcagac 2760
 ggccaattgt gattctttcc taggtatggg cgcagactt gagatcagtc tgggatccgg 2820
 aggtggaggg gcagcgacgt gtagaatatg ggccgtttaa tctgttgaaa tatggtcagt 2880
 aacatcatta cctaggttgt tcatgatagc tacatagata gttaagttca ctgcagttct 2940
 gtataaattt tcagttgtag atcatatttc tcttggcgta tatgtgttta gccgcagtca 3000
 ttccattact gctagctatg tagaagttct gcattttcca ttgctatgga ccaagggag 3060
 tgtccagagg ttgcaatgca atttcgcgac agtatctccc ttctacgcc aatttggtga 3120
 agaatccaag gctcctaaat ctgtttccac tgtaacccat gaatttagta gactcaaggc 3180
 atgtgccact atctaatatg ctactcatt ctgcgatgc tattgaaggg tcagtactta 3240
 ggtatttact tttaggttgg acaatcctct aatgtotaat ccatttgaat tcaaggcagt 3300

atatgctcat tagagaagtg ggcataaatt actgagcaac tactcgtgct agacgcgtcg 3360
 tcgactttta taagggcggt tggctctgaa ctctcgtg gacaaccctt attcgcacat 3420
 gtaccttcat ctccatgtca agcacacctt ttgaattcct agctgaggtc atcagtacct 3480
 atcctgcata ggcaaaagga tgaatagaat tggggagttg agagaagtgc ggtacggcgt 3540
 gacattcaac cactcaagcg gataataaaa aaaaaaaaaa cgaaagagga aaggagggca 3600
 aagaa 3605

<210> 2086
 <211> 4689
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2086

gcagcccgag gataaatggtt ttcgggatat cggagactac atgacaaaac gctatagaga 60
 tttgggcata caaggagacc atgagagtat atgactgggc agactaccta gatcaagcaa 120
 ccttcccaac gccattgagc gtcaagtaca catccgttcc ccacccccac aggggtctgaa 180
 cggcaatact accaccaaag tactccgcat aggcgcggct caacgggaga ccatatccaa 240
 ggccagcaat gctgctcagc tggccactat tggaagaaat cgtgttttagc gcgtctatcc 300
 cgctgcttc gcccatatcc aggtcagaaa acgtggtgaa gctgtatgac cagatctggg 360
 gcaagacgtc cggggatatg ccgccgccgc ggtctcgaat tcggagggta atgctttgcy 420
 aggatggagt ggagaatttg atggactcgt ttgcgtctgc agtaccaaca actgtatcga 480
 cgtggaatcc gacgtcgtg tccgattgag cgctgtgtc tagggcgtct gctggtttac 540
 cgttggtgac tggctcatgt gcttgtaa atgattgccagg tacatctggt gcggcgccga 600
 ttgtcacttc aatcggctcc tgctcgtttc cactctcgat gacggccctg aatgcattct 660
 tcaatagctc ggtgaggatg tactccacat gcacagggac atgcgcgaaa gtcgcgtccg 720
 gttgtccgtg aatctccagc cgtgggcgca ccccatatct cagttcgcaa atttctccaa 780
 cgaattcctc gcacgaccgt acaatacgag ccggttgcaa agcggtatcg attaccccca 840
 tatagtttga cggcgccgca tccttccgcy gctgctctcg tccttcggct gatccgtccc 900
 cagcaggccg cgacgcaaaa tgaagcgcca ggtgttgctc tgctattaac cgcgtaccaa 960
 tccgcgctcg caaatgtgta tccaggaacc gcgtcacctc agcgggatcg atgtacttac 1020

gacattcaag aaagccgctg gctaggatgg ggatcgtggt ggaatgctg tggacgaggt 1080
ctgctagtac ctcagcaaat tgattctctt cctccagggt cgtgacctgc cgcttttgcc 1140
aggggagtag cgttgacagc gaatgaacgt aattgccgta aatcttgag acatgcgggt 1200
ttgcgacgac aataaatggg aggtttcgaa gagcttcaat acgggaagcc agtcgggctg 1260
ggagaagaga gaggggtgaag ttggcgagg caaggagggc ttcttttgat agtggcggac 1320
ggccgtatct agaaagacat cgtcagatcg cgctctcaat gggatatctc cggattcttc 1380
acttcagcaa atcagctaga gtcaagggtc gacgccgact agctgcaaga cgagcgacct 1440
catcatttgc ccggggtgta agattttgtg tggtagtagc ggtggctgtg gtggtgagtt 1500
tgggatgact ggatgtcgca aaaagacgtg ctgctaccat ccgactacgg tggcgaagg 1560
cgcttctccg aaggtcacga cctatagaca gtgtcagaaa tgggatcgtt gccgccatag 1620
caagcacaag ccatgctggg ttttaggtca agagcagttc ggaaagcttg tgaaattcat 1680
ttgtcgcccg cggtgaggat ggactcacgt gccggcgctc agtgcggtt gatcatccac 1740
tcgacacgaa tgtttctcag caacattcca acctacgttt tcaatctgga atcatgcgtt 1800
gttctcatta ttctccacca cgaagacgat gtttgatgt cttagcttcc ctaggatact 1860
atagcgggtgc ttgggaacat aacctagcct ccagctccag ctagtatctg tgtttaccta 1920
tcacggctag aacgtcctag ataagataac ccaatggcac gatagtgggg attttgaatg 1980
tgatagcgtt tatataagag agaggagggg cagcgatcac attacaatca acagaacgg 2040
actcgccatt tcctacatct caggtaccaa gtacgtcca actgatcgca tcgtgattca 2100
gttatcgga cctcaataaa caggcgcttc aacattgcat aaaaactatt ctcgatgaat 2160
tcgggtgtatt ctcttgatc aaagcataaa agtcagatcc gtaactcata cattagctca 2220
gtgatgggtc gaaacagctc agaaggcagc gtatttgctc tattgctcag agtccatgaa 2280
gagcgctaga ccccatcac tgagtcttaa cctcccatc ctgctcaaca tgaatgtgtt 2340
cgcttgattc gaagactgaa acgaggctcg cgggggtattc aacgctagta gatatgtcag 2400
ccggaatttg ttctggagac aggacgacaa caaggagctc actcacgtga aacccttgat 2460
cagggtgtac tcgtgcttga tggttcctcc cttctccttt gcagcctcct tggctctgtt 2520
gtgcaaaaag caggtttagc gaatgcttcc gatgatgcgg cggaaggag gctcacttgt 2580
gaagctcctc gatgggggag tctttcttca gggtaacctt ggataggag gttagtgggtg 2640

agcctggacg agtgcacgac agggcgacga acgttgtaga gaggcacgt gattttgagt 2700
 tgtgggatga gtggacaggg agcagcggtc gagagatatt ctaatgagag caagtgtagg 2760
 ggaggctgga gagtgggtga tcgtagattg aaaaggggtcc ttcagccgaa ggtggggaga 2820
 ccgggcttat atgtatgtct ttcccgggga ggggtgactc gagaggtaat ttccctcatt 2880
 gtaagccctg aagataaggt gaaacaccaa gttactgcc aataaaagc gtggctatgg 2940
 ccataggtag ttgttgctta ctctatctag gtggtatcgg cgacgttctt atgcctgatg 3000
 taatgataat aattctgcct gaagccatct acgtggtagc agaaggcat ggaaccgggt 3060
 taaagatcag acgggcttca aggatgctgc tataatgctc atattattcc cgtctaacca 3120
 atttcatacc aggcgtata acaaagtac gactgccaac gcttgccagg actgtatcag 3180
 tgctgtgatc acccttgccg ctgaggtc cctgcagca gcagatgacg tacgagcggg 3240
 cgctgcaagc aaagcaaagc cgggacacac acgtgactga tgaacaagca tatgtgcaaa 3300
 atgacgacga ttgtatagtc aagtaaccg gctgaggcta aacttaagt acttagaatg 3360
 cataaccctc tctggccaga attttgctt cagttaaaca gcagacaatc tcgtaaacct 3420
 ttgatttcga gatgaaagg aggtccagag cagcagtcta gtggaatgat aatgaataga 3480
 acgcaggaca gcagtagcgc acctgaaata aacaggcagt gcagcccagt ctctaccac 3540
 tttggccacg gccttgccgc ttgtgggctt cattgccttg ggcttggtgca actacaaatg 3600
 ctgcgggtccc tgagctctat caaggtacct gatctacgc cagtccacgc ctatcatctt 3660
 tgcgagagga atttgacag tagaatgaac atcgaccca ctgaccgct ggcgccactc 3720
 agaacatagt gtggccgtca cgtagcccg ctgtacaaat tatcttgggc gcggtgctgc 3780
 cacaagcgac aatgtcataa gccgcggcta tatctactgc tgttttactg cgcgcgacct 3840
 tcttgccggg gatcaggact cgggtagtat aactcgggca tgagaatagc tgcatagtac 3900
 tgacttgacg tgatcctgag acgaggatca ggcattggac gacaggccgg ttggtacagt 3960
 ttgaaagccg ttgcgcttag gtgcgtgcc tgcagagccg cctcggtggc gtaccaagc 4020
 gctcatggtc ggcgagatgg ccagatctgt tgctgattcc atctcctgca gagcgtggac 4080
 ggatagtcga taagaagagc agatggccga caagagctga tatcaagcg tctggactgt 4140
 gatcattgcc gaatttgaag ggggttgatt gttttatgcg ccgtactgcc cctgaatttc 4200
 actcggtcag gtccttaaag ctgctgctgc tgccgctgtt tgtctgcatc ttagagcagt 4260

taattcagat ggtaacggct aaaatcctag cacaatggca cgatagacaa tatataccgg 4320
 gcgatggacg aagagagggg tcaccgctga tatttagagt cataatctac caagattcgg 4380
 tgatgtgcaa gttgtttcgg cgttgaggca ggcgatcatc atgaattcct tgtgcttaga 4440
 cttgtcttcg tctatccaaa gcagtaatgt tgacgaggag acgccatggc gcttccccag 4500
 aacttgaag cggctttcat attggcatgc agtcttccat cttcgagata gcaagagttt 4560
 gggccagca gtacctata atatgaagca ggtagagagg ctgattttgt aggaggtgag 4620
 ggggtggcttt gacaacctcc gaggtcgtcc tccgccaaaa gaatgtcaga tgactgaatc 4680
 caggagata 4689

<210> 2087
 <211> 3401
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2087

aaaagtacgg ggtcacaatt tcaggttaac ctatggaaag attaaagaat ttccaagggt 60
 gggccgccac acgtgaccca aattaggtag tttccagga atttccgggc gcaaaaggca 120
 tgttaactta acttaccaag ctccaccct ggtccaagca acgtgtaatc gagaagtatt 180
 gcaaaaagca tggaatcatt gtcgaggcct attcgccaat tgttcggaat tataaggcca 240
 acgatcctac cttgtcgcgag attgccaaga agtacaagaa gtcgacacaa caagtctga 300
 tacgctacgc attgcagaag ggatgggtcc cgttaccgaa gactgataat tcagagcgca 360
 ttgtgtcaaa tgccgacgta ttcgacttca acatcaccga tgaggatatt tctgtgctgg 420
 acggactgga ccaggaagt gctggagcca ttgtggaggc tgttgagaat gagtagatcg 480
 tttgtccaat actataataa tgcaattaa gagtttaata gtccggtcgt tgcataagaa 540
 acgcattgac agactgcagc gtgctgcgtg atgggttcac gtcattgttc gatgacacga 600
 tccaagcaag acgttgctcg atgaactgtt tacttatcgg ttgcgtttga ggtccgacaa 660
 actcacctac aacagtcaga gtaagggttg aatagtgtg gtagcgattc aacttaccgg 720
 catcattata gaacaggcag attatagtga gcaagggtcc agcagaaagg tccttcccag 780
 actcgacat aacaagcaga gactgtgacg gactcgaggc caggtgcaga ttaacgaaat 840
 cccgaacctt gtctaaatga ttccggagggt cccggccgcc ctgctttgag gatatacagc 900

ctagattcag acgcttgggt ttctcttccg tagtctctgc gctgctattg caatcaataa 960
ccaggtcata gagaccattg gcagccaagc taggatccgt tcggctgaca tataggttct 1020
gagacggcgg cgataagtgt cgcttcctgc cccgaaccct gtttacggct ctctgcac 1080
aaatccgcaa tcacctcggg caggtcttct tctgcccgtg tcaagagcgt gaatttgtca 1140
gccccaaaata cagctgggtg aagaccgtgg gccaagctt cgctgtcatc ccctgcacct 1200
tgatatagc caccttcgga tatttcagcc ccatggaccc gtttcgaagc cgagcaaaga 1260
acgaaaagat tgtacgttct tcctttgctc aggtctgttg ggtggaagta tgtccgggtt 1320
gccaagcaa tgcgtattgg ctccccagc tgctgcttga gatcatccag atcaagttta 1380
agactctaca actcgatcag cccacctcgg cggctggtgc tcttttcgta cataccttga 1440
gtgaatggac aaaaccgtcg atcctttgct caatctgcga ctctcagag gcacctaaagt 1500
agttcggcgg caattcgacg gaatgatatg cagtctctga agggaacaac gctctgttaa 1560
agacggcaca ccagataggt atagtctttg acaaggcatc aggcactact ggtgggtccgt 1620
taagatagag cgaaagagtg gctaaccgca gcaatatgcc aataacgagg taaattactt 1680
acatttgcca cgacgagtgg agtcactat aatgcacctg catgggtcaa accgcgatgg 1740
ttagtttgag agtcgaatta acaccgcagc tcgttaagaa ggcattgatg gctcactgac 1800
ccccctgggt ggccgggcaat tggtagaatc tgcaggttta gtctacgaaa gctgaaatcc 1860
cactggccag tatgtccgtc ggtgctcttg aagtaagcgc tcccagactt gacatcgggc 1920
gggatatacc aactcccgca tctttcgttg gcgatcaagg gtaggccgta atggtcagca 1980
acctcacgga caaatgcagc gtcagcctcg atagagcgga gtcgggttgt gacggaaaagt 2040
gcagatcgtc gcaaggaggc tagtgtcttg gatacagata gctgctcaga ggaggggaag 2100
tgaagcgccg atacggacac ggggaagtct gaattggcga cactacccat gtcgagtctg 2160
cttgtcttgc tgcagaagag gaatcaaggg ataggagaca gagccatagg ataacaggta 2220
aggagtgtat gtagttagag tctgtccacg gccggttgta taaaatggct gaactaggat 2280
tattctgtcc gagtcaaagc gtccaagtcc tgccaggctg cgcaaggcct ggcgcctggg 2340
gattcgaacc aatagaatgc acacagtgtc agcctgtaaa gtggaccaca ggactgggtc 2400
cagattgagg catcgaccaa tatttgatcc gcacgtgaa gtatgcccc tacttcgtcc 2460
aatggtgtac tacgaaacga aggagacgac tgctgcaagg aatgtatcag aagaacctga 2520

tgcgtaccga ctctcagccg ccaacgaggg atctggccag acctgaagaa cgcaggggtg 2580
 gcgtcgaagg aacggttgca ttgtccatcg actctcgata attacgacgg ctacgtagaa 2640
 ccaagactta agagctccct tacaccggaa gatagtgcac aagatcaagc gctgattcgt 2700
 ggctcagcct gggctcaaca ctacggggac gcttctaggg tctgaggtat atactgagtc 2760
 caaccaggcg tcgctggaac actgtactcc gcatagcagt agtttgtcag ggataactgc 2820
 tttgtcttat aacgacgcgg cggtttcagt caccaatttt ctctgttttc ggcggaacatt 2880
 gatgctattc aggaccaatt ggttcggatg ccaacccgac tataacgaga accgcctatg 2940
 acaaagacac ggcccggtag actgaacaga cggactatcc acaatatcca gaagtacaaa 3000
 aaaaataaaa aagaagaaaa agaaaaaaag aagaaaaaga aaaaaagaag aaaagaagaa 3060
 aagaagaaaa agaagaaaaa aacataaagg aaaaggagta tggatgaatga tgaaagtgat 3120
 tcgatttggg tctcccatg aacaagcggg tttctgcgcc tttccatata ggctgcggga 3180
 ccagtctcag gctccattc aaacagcggc aatcccaatt tgtattgcat gaactttacc 3240
 agaatcggcg tgctaaggaa ggcagtcttt gataggccta gcggtgcgat tttctgcgcc 3300
 agtggagtcg cgaggccgc cgtctctaga tgagctgcgt tgcggtcatc aagttctcaa 3360
 cgtcacagta tgaccgcagg ccccgctgat ccgcccacgt a 3401

<210> 2088
 <211> 1853
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2088

ctctcttttg aaaaatgggat tggtgccaag ggcatatagc tgcaagatgg cggtagcatg 60
 gtcgaacttt attgttcccg cccggttcac cgttttggac gggaaatttt gaagagcccg 120
 cgggtataact agctattata gactggttta cccgaactta catgttctct ctgttctctt 180
 ccatccgcta gtgtaccgga cactcatcag ggcaccgcac gtgggggaac acgtctttca 240
 cgggctatca ctactgttt catccattga gcggggcaga ggtgcaacaa atctccgctg 300
 aagtagcatt gatcgatgcg tcgagattgt tcaggacttg ccgtccctgc atgccagaa 360
 gccgcctcc cgaggaaaac cgtggtgggt ggatcgactt actggtcagt tggactgata 420
 acgacgactc agaccctgt cttttcatgt gccgaaagc cggcggtcgt tccagaataa 480

gcaggggtgg cgcggcgttg attcctcctg tcttagtatg cccatggctg ttgtgtcgag 540
tcaaatcgag tggtcgatgc ccgtagcat agcgggctga acagactgtg gtaatttgac 600
catccttcag tattctcacg cgcaaatgt cttttattaa cccgatgtgt caacgaatat 660
acaaagggtg cgtcgaccaa aattgatgct gtcgagtaa ccatcaattt tctctgcctg 720
ctggggagcg gcaatcttgc acaacctcac actcaatatg tcgagatata ccctagacag 780
ccaagcacca gcagtaattg tgctgactcg cttcttggtg gtaaccttga tcctgggaac 840
gctcgctcgg ctagcgacga aatgggtgaa attccgcacc ttctttcggg acgactacta 900
cagcctaggg gcgatggtga gtcaacctgg gaagtacagg atgtgtgatt gacagtcgag 960
tagctagcct ccatcggcca ggcaatagct gtctcgatcg cagtgaacga gggatatgga 1020
acacatatca aacagctcag tgaaggccaa gtagctggtg ttctcaagggt gagcaccctt 1080
atcttcatat cgcaagcagt cctgtctcct ggctttccgc taattgacaa ttgcccaact 1140
aaggcccaat aactgccaa tttcttttac atctttggga tcgccttctc acagctttcc 1200
tttcttggtt tcatccagca gctggcacac catagtcgtc gagtttttta cgccctgcag 1260
attgcgatcg ctctctggac cgtatccagc atcttcgctt ccgcattcca atgccatccg 1320
cgtcaatggg attacattca tgaccggtgt ttcaatcgcg tatggatcaa accgtattta 1380
aatggatatt gggggcgggc taacgattga ccaggaggca tggtttatct acctggctgc 1440
gtcgaacatc gtcaccgagg tcgccattat tgtccaaagc atacacataa tgataaaagt 1500
ccaaacgaca tggaagcggg aatcgaacgt aatggccgtc ttcttattca gagtcctgta 1560
ggaccctccc atcttgcgt cgctcagaac agagaaaaac gaaactgacc ataatcgtct 1620
cgacagcgtc cccgcgactc taattgccca gtgcgttcta acccataaca ccattaattc 1680
ctccgacca actctagcga catggtcgat agctgtctgc gcgcaactag ccctctgcct 1740
aagcgtcgtc acagccagca cgccacaatt cgtccccgtg ctcagacgcc tacaatccag 1800
tgggatgaga ctcgatggaa tgaccgggta caacacctcc agcaaccgcg agt 1853

<210> 2089
<211> 2979
<212> DNA
<213> *Aspergillus nidulans*
<400> 2089

ttgtgccttt cgcgctgttt gtccgctttt gctcttgctt ccccttccac tcttccctgc 60
 aacgagcttt tctaagtg tcgttgctac tgtggactac cggccggcaa tttgagcgag 120
 acgattctga tttccctaac ggattcaact cttgctcgca ttctccaaac cgcgtccacg 180
 accctctctg tccggttagc aattggctctg gcatccaaag accgtctctg gtgctcttag 240
 aaaaaagttc gtctcgtgtc cgctttccga ccatcgcaac gtacacggaa gaaacacgcc 300
 tcaccacca aatcgctcgc agagaaggaa caaccggaa aacgccagtt gcgaccgctc 360
 tttttcgtc tctttgtgtt cgtttccgct tgtgtccctg atacagtgtt gttgatttgt 420
 cccctcatgc ttttcaacta agagacatca actgcattaa aaccagagcc ggggtcgtt 480
 gagcaacgct cttctctccc cccaggctca ggggtgtggc gacgcgtaga cggttcgttt 540
 ctttactttg ccttccgtca ctctatctga tttggttgct gactgggggtt gtctactgtt 600
 tttagcattc accgtctacc gccccgtccc tgaactgggt ccatctcccc ctcttcttca 660
 ccatgccgtc tttctacaac accggcctcc cggcctaccc tcttaccccc cctcacatca 720
 ccggtgccgg taggatggag aacgaacccc cttctacgt cctcggctac tcggccgctt 780
 tccctccccg ttatacccag agcggctgtg aattcatcga gcaatattcc cagcagtcac 840
 actgttacgc caagccaccg atgaatgcc aacagcccat gactcgtatg cgcaccggca 900
 gagacatgac cgcgttaagt caatccatgt tcggccccgt tctgctgcc aacgtgctgc 960
 cccgatccg caacaacgtc caactgccgc cgatggacca cgcgttccg ccgcagtatc 1020
 gccgacaaga cccgattgct cagcctgaac aggcctcaa ggaggagaaa cctaccgggtg 1080
 gcgttgccgc ttatctggac tatgagatgg atcagatgtc cgactttgtg gctgagatgg 1140
 cccaggaat gtatgacttg tacatcacca agatcaacct atcagatatt gacttcgcgc 1200
 gaagcgtcta cccaggatca tctgtccgc cccagttccg gaaatacgtc ttccagattt 1260
 tgtcctcaac acgcctgccg agttccacca tcttctggg tctctactac ctgtctgtc 1320
 ggatgcgtat gctctcttct gccaaagattt acaacgctgg cagtggccag gtctaccgca 1380
 tgctcacggg ggctttgctt ctaggcagca agttcttggg tgacaatacc ttccagaaca 1440
 agtcttgggc tgagggttagc aacatttccg tgagtgatct gaactctatg gagctcgaat 1500
 ggctcttcgc ttttgagtgg aagatccatg atcgcatcta tgaccagcag gacggattcg 1560
 cttcatggct ttctcactgg gagaaatggc gtgccaagtc ttccatcagg gctcacgaac 1620

ctcgacgctc cctcgctccc atcgatacca acatcaccgc cagcaaccgg gtttcgaagc 1680
 cgcttctctc tcccgaaggg ccgattcccc cacagtatca gcgaaacaac caatacgaga 1740
 actcttgggt taaccagca gcatcagagt attccccgcc atctgctcct cacagtggac 1800
 cgacaactcc ggactactac tcagttggcc catgggggta ctcttctaac cctccaccgc 1860
 catattcgag tacctggatg cctcatcatc agtacatgcc gccccctcgt tcgcagccgc 1920
 catcctacca ccactcca tcctacgggt tcccgtttcc gcacgggtggg tggacgactg 1980
 gccatggtgc ctctgcggt tgctcgact gcgcaaaca catggaacat tacatgtgtg 2040
 ctaacctcgg ctccatgcaa ccaattctcg ctgcttgatt aacgttacgc tgcatacgat 2100
 acaatgctgt tttcgctatc ttgttctgtc tagattttcc ttcctttgcg tcttccgatt 2160
 cgttcgatga taccgtctta tccttttcag tcccatcgc gttgacagtc cggctttttt 2220
 tcggtctcag ttacatgcag aaaagcacc tggttatctt gtctcttggg ccgcctgaac 2280
 ggaaagaaaa gtcaaacag aaaaaaaaaa gtgtcaagca gcgatattgg aacgactgcc 2340
 acatcttctg ttctgagatt ccgcatgcat ttacgatatg acaccttttt ctttttatac 2400
 ccgatttgat atgatttcgt tttcgagaga tctcgtcaag tcaaaagcag cgagatccag 2460
 cggcttctct tgggtcttgg agtcgagaag tcacgataat ttatgatttt cgttcacgc 2520
 tttctgctaa tgccccttgt tctcgatctt cacctatttc gattcttctc ttcataattt 2580
 ctggattttg gcatttcac tcggcagatgt tactcataga tcgattcact tccccatcat 2640
 aaacaaccat tccccattta cccggcggtg caatcatgct ttcggtttta cgttttgcat 2700
 tgccgcatcc ctccgtttcg gttggtttat attctctttt tctgcctca gtcgatcaag 2760
 gttatgcttt tccgctgcat gtactctgac ccttgcaact tcaaaatcaa gggttgggct 2820
 gatcggacac ggaggacctt tcttggcggt aacattatc tttttgtct cttttattct 2880
 acgacccttc atgcatgttt tataccggtt ctttttcgat ccaccacaa aaaaagtgat 2940
 actcccctta ttcccggttg tgatcttttt gtcccctgt 2979

<210> 2090
 <211> 3480
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2090

ctgcagaatg tccgccaaac catctgcgcg cgtcagggttc ttcactatct ctggcaggga 60
 gggaagacat gctgggaccc ttaatttttc tacagggttg cagggtggcgg agtcgcgggt 120
 ttcaggaccc gcgactagtt gaactcctta tttcgggaaa cacccttgca aagtcacagt 180
 cctgagtctc taagtgggtc cagaaagcat ccctaagtca atgtacggag acctcgtgtg 240
 ggtatagata ataatgccaa gtgaatgcct gcgtggtttt tcctgcacgg gccaggagga 300
 tgaaaccgag cgcttataga acgttttgta tacgtttccg cccctagatg gaagcaccta 360
 cggagttaa cagatcaact ataactctcg agacaaaggg aacttgtacg cactgataca 420
 taaggtcgac ggctaccagt aaaagaggaa caagtcgata agtccatctt tctatcgttc 480
 gcttcgcagc tcttttcgtc atgccgttct tcaaacgagc ctccgtggtg taccttctct 540
 gctctttgac gccatctctt gccttcttca aagtgccatg tagcacgccg ctcgtcatac 600
 aacggggccga tcctatcgtg caaccggcg ttgcatcagg ccatgtgcat acaataatgg 660
 gcggatccgg cttcggcttc acgatggact ataacatgac ccaaacatcc cagtgcatt 720
 cttgctcggc cgtcaggat aagtccaact actggatctc ctgctctat taccacgtg 780
 agaatgggag tttcatacca gtgccccaga atgggtggagc tctcatctac tatttgtgag 840
 ttggggttct ctgccaagc ttacccccgc agatcacatc agtctaacag acagtgaaga 900
 cagcgtcctg acccgacgac tgacggcaca atcgtcgcac caccgctgg cttccgcatg 960
 gttgcaggga atcccttcga ccgccgaac aagggaaca tcgcagctca agcgcgcagc 1020
 tttgcttgcc tggactatga tggccccggc acccctcaga cccatgggtt tccaaccacc 1080
 aattgcccga atgggctgcg cgcacaggta ttcttcctt cgtgctgga cggggtgaac 1140
 ctggatagcc ctgaccacag gtcccatgtg gcctatccga cccaagagta cgacagcggg 1200
 ccctgcctg catctcacc agtcggatc atctcgatct tcatcgaggt tacctggcac 1260
 actgagcagt ttgccgatat gtggtatggc gataagcagc cctttgtgtt ttcctatggt 1320
 gatccactg gctatggctt gcatgcggac tttgtaagtg tcctaaaagc cgctgccaac 1380
 gaaccacaac cactaatctt gagccatgat acagatcaac ggttgggaca tcgacgttct 1440
 ccaagacgcy atcaacactt gccatgacga gggcggtgat attcgacagt gcgagccaat 1500
 caccttgca gaggactggg tgacagacgg gtgcatcctt gagcgtcaa tccacgagca 1560
 gatcgacggc tggctcgatg cgctccccg ttgaaaccg atccagccc ggcccgaaga 1620

tgccaagcct gtcacagggt gccgtgcacc cactgctatt ggcgagcctc tgcattacta 1680
 cactgacctc acgagcagcc acggatggga gtgggttgga tgcacacagg acaacgttgg 1740
 cggggagcgc attctgaccg gttcgtccgc cgggacctca gatatgacgc cggcgacctg 1800
 cgttgagaaa tgccttgccg atggctacag cttcgccggc gtagagaatt ccaatgagtg 1860
 cttctgtggg gatagcgttg gggaggataa aatgccgaaa gttacaccga tggggaaatg 1920
 ttacagcct tgcgtggcg acggtctgca gaattgcggc gggatatgggt tcattggatt 1980
 gtataggaaa tgcgagggcg agtgcggcaa tctgcagtac cctgtggttc ctactaggg 2040
 ggcagcccg ccagatgccc aggatagtag ccgactctga tcgtatggcg atggccacca 2100
 acaagttgca tataagcttg aacttcatgg gcattaatct gattctacgg atactctatt 2160
 tagccaaagt tgccattttt tgctttttgt ttcagcggaa aagaccattc aatataaccg 2220
 cccatttcc tttttttctt attccatacc tacagatact gtgtacagtc agagcccttg 2280
 ctttattaaa caccagcagg gtgctctgtt gaattggcta ccattggctt catcttagga 2340
 cccgaacca ttgagtacaa tagagatcct tggagcccag tatttcccat ttcttaactt 2400
 gtctaaacaa aagatacccc tcccctggca cgccaagcgc gagtgaatac cccgcaatgt 2460
 ggctttcttt atgccggcaa cagctccatc ccctgtagct ctcccagcga tactgacatg 2520
 gcgggtaata cggcaggctt tctgatagaa ggagttctga gccgttggcg aaacatactt 2580
 gatatcaaca ctggctagaa ataccgatag acataacact gggtaatcaa aaccgaccaa 2640
 ataggtccgt gcctatatta gtggtttggg ggggtttgga aagttggggg ggtaaaaaac 2700
 ccactaggaa tatgaaatcg caaatgctcg cattattgta ccagaccgct gcaatcttaa 2760
 agtccttctc agttaattgt taaagaacac gctacaaacc taatatgaaa cgttggaatt 2820
 aaacctccta aatgtcatac ttctgttaca cagcatatat ctattaaata aatcctctac 2880
 ccatccaatt atttactaaa tcaaaccatc tttccctcaa atccatacta aaagatagtc 2940
 ccatgactta accattttcc ttaataccat tgtccactta taataaaaca ctttaaacct 3000
 ccttaaacaa tattctaata ttatcatatt cataaatcat atcttcggat atcaacttac 3060
 ctccatctca tactacacc caaatccttc tataaaactc attaatactt ctacccttta 3120
 aactcacca taataacccc caccctgcaa ctctctctat aaaatcatca ccctattaag 3180
 ctttatctct accatttact cttatacatc ttaccacat tttttattc catttacata 3240

atacttattt caacaaatct tctacaaatc cacttttctaa ctatatacta atctaattaa 3300
aattccttca ccattaatgc aacacactcc acatctttca atctaataaa atcctattaa 3360
ttcattacat caaatcttac tcctctcact tctgataaac cacttctcta actcttttaa 3420
tatatattat tttatgatat acatctattt ctagaataat gttcttacta acatatccac 3480

<210> 2091
<211> 2388
<212> DNA
<213> *Aspergillus nidulans*
<400> 2091

tgatctcggc gtgtcgttag tcgacccggc cgcctcatt cctgtcacta ggcagctaca 60
tgacctatgc tagtcttctt cggatgcgct cagagttttt cccaacatg ttccaatgg 120
ttgttcggtc ggacatgttc tcgctagaga cacagctgtg agggaatctt tgagtctagt 180
acagggtaaa ccgatcgaag gccaaggaga tcagcgccat gtagggttct tggcgccctg 240
ctcagcgtat cacgcggctt gtgtcgtgac ccatttgttt gtggaggacg aggaggcgct 300
caacggcacg ggattgctgc atatctttct ggatgactgc ggaatgtag tgaggcagtg 360
gcggacagat aatgaggag gggactatga ttttgatggg acgtggaagg aggggtgttg 420
gagggaggat ttttatgctg ggaggggaga gttggggcct gcttatcgtg ctggagggat 480
aagggggccg ccgtattcag ttttggggta gtgctgggtg tatctgcggg ttcgggggtt 540
ctgcttggtt aattgaccct ttacaggtta ggcattgctg ggtctggaac tgctacgtat 600
atactacca ttaggtgctc tatcgagagg ccatagagca atttataact gttatgatgc 660
atgaaaacag aaaaggaaag ttttcgtgct acacaaatgc cctcttaacc ctgcttcata 720
tcttccagat tgagcctagc atcggtccc aatcaatata ttcagggaga ggccaccaca 780
tatcctcgtc aggatccatc tcaacgcctg cgtatgtatt agcataagct tttatggaat 840
ttttcatggc aaagaaaaga taatggaaaa catactctca atctcccacc ctccatgctc 900
attattagta ggctcctctc tactacgctt actccacctc cccggagtcg gatggtcggc 960
gtactgattg ctgacgaagt tcactttgca cctggagtac cccgggcgcc ttctaaaacc 1020
tgccaaataa agtcagcttg atcctgctca acccaattga aagctgaaga ggggaacaca 1080
taccaatact cagcaacatc ctgttctgcc ccttgctcgt gtgaagcag taccgaattg 1140

taggtgccaa agtggtagat atcaggctgg ttgaagaggt ttacagcgca gaagacatgc 1200
aacgctgtcg tgctgttagt agtgcccagc tcaaagttgt tcagcgccat gctgccctac 1260
tggtctggta tgctgttgac actggttgct tatgctagag cgaaggtgaa gttgcgcttg 1320
aagttgtggc tgaggggtgcg gccagaattt tccattcct gcaaataatg atgtcagcat 1380
gtgagtgagc ttgttattac cctggagagg tatagcttga acaaagtctc tgggtactca 1440
cggtttcatc aataccctcc gagtgaggca cagcgtgggg gtagcgagct aggcgtccga 1500
atacagacgc gttgggatca ccttcgcgtc tacctgggtg ccatcgctcg tcagagggct 1560
ggcttttgag tatccgtttc gaccagagct tccagtcctc cgtcacgat cggagtcctt 1620
ggtcgaaata cgccacgttg gtgtagagag tgctcagtat gcctaact gttagtcatg 1680
tgctgcctga gagacaacag acttgcataa ttagcttacc attgcaaatt ccccgagagt 1740
ctgaaaccac tgaggcatgc aattggccat tggcgtctt tccgcctct cgtactcatt 1800
ggaggtttct gtgggggtca tgggcttcgg gcacctacg aattcgccaa ctcttgcgac 1860
ttgggtccac ggcatctcac tctttcatta ttagcccta gggctgctgg cccgggccct 1920
ttaatggccg gggagtgggc ttttggggac tgtgccgcc tccctctggg ggctctctag 1980
ggttcccatt tacttcgacg acttgtagcg gttaggaatt cttttccgtt gtcttatcac 2040
ggcctcggtt cttttaagac ttaccgcttg tctcttcagt gtccggcggg attacctatt 2100
gtctgtccca ggtccttata tgtagcttc tcaattattt aacgttttcc gcccttcgat 2160
acaaaataaa gaccggcatg ttcttcccc tttcggtaaa tgtgtttggt tgtagtggtt 2220
ggaattttga ctatatctct tatatatctt gctttttgtt ctctcaacat cccccctatc 2280
taccctcttt catctattgt tataatttta tatgttgtaa attatTTTTT tgattgtggt 2340
tgttgtggtt ggagttttta tatatatag gtggtgggtc cctcccc 2388

<210> 2092
<211> 2216
<212> DNA
<213> Aspergillus nidulans
<400> 2092

cctaccagga tatgaccag ttcaaagttc gcctcggagt ttttcttcgt tccgatgact 60
cgggctgtat gcaatagctc accacagcat gcagctgcat gctgacggcc caggaccgtg 120

ctgccttaa ctcaaccgca cgttcagtga ggggcatttc acgtcttaca tctgcatata 180
 agaccctgcc ctccctcgac ggtctcagaa gaccctgcgg tacgaatatt gctccttgac 240
 agcgcaataa cgaaatcaaa atccagagac caaacttcga aaatgacctc accgaatcca 300
 ggccaactct ctgcgggctc ccttccccca ataaccgggt atattacggg tcacgacgct 360
 tccgaaaaag ccacgtcca gtcttccaac cctgccgaat ggtcttccct tgagcacaac 420
 accatggcat tcaactgtagc ctacacgacc tcgtccttcc cgggtggacct agtcgacgac 480
 accgatatca aggcacacga gcgcacatg acttccgata aactgggggt agtgaatccc 540
 ggcggaacag tctgcagagt cgtggacttt gcgccaaagt ccccgccgct tatgcatcgg 600
 acgcagagct tggattacgg tattgtcctg gagggagaga ttgagatgca cttggattct 660
 ggggagaaga ggttgctcaa gaaaggggat attgcagtgc agagagggac aatgcatgct 720
 tgggtataatc cgagtgcagc gcagtggacg aggatggttt ttgttttgca ggagtgtgag 780
 ccgcttggtg ttgcggggca ggagctcggg gaggatttga cccaggcgaa gacagatgat 840
 attaagccga gtcgttagtt ctgctcgtct gctagtgcgc acggtcgact attagcagac 900
 ttaacatgac gtacgatttg gactatgata gtgggaatgc tccagcaaaa agcatgaatg 960
 tgtttactga gatagtacgt tgggtgcgttc tatttgagat atatacatta tccagctatg 1020
 caatcttgat gacaatcttc ccaaagtgtc gtccattcgc caagtacttg aaggcttctg 1080
 gggcatcctt gaaggagaaa accttggtca ctactggctt gatgctgtgc ttctcgtaga 1140
 aagcaatcat ctctcgaac cggtccttgg gaccgttgat gatacccttt agcgtcacat 1200
 tgcgagatag agcgaggaga ttcacattcg ttccgtcttc gggggcggtca accttcccg 1260
 tcaggtatcc cacacagtcg atgaggccgc cccaggcaat gcagttaaag ctctttttta 1320
 atgtaccgcg accaccgacc tcaataataa tatcagctcc gtggttgtca gtcagcttta 1380
 atacttcttc ctcccagtta ggagtcttgc ggtagttgat cgtgtagtcg gcgccgagct 1440
 ccttagcctg cttcagcttg tcgtccgacg acgaggtgat gattgctaga aacatagtgg 1500
 ttagtttcca tctgcccacc agaacgaagt gaggaactta ctctttgctc ctgaagcttt 1560
 ggcaatctgc aaaccgaaa cagatactcc gccagtcctt tgaagaagga tatactcccc 1620
 ctgcgccca ttctgacct tagggcgcat accgttgatt gacatccaag ccgtcaccgc 1680
 cgcatggga agagtggccg cctcttcacg ggagaggtag ctccgtgccc ggacgagacc 1740

gtgggcggga aacgcacgat actccgcaa gaccccggtg tggggaagac caagaccact 1800
ggccatcatc ttctcaacga cctggccagt ctggtggtca gggaggaaag tgcagagtac 1860
cctgtcgccc ttctgccaac ctgtcacacc ttcccctacc tcaacaattt ctccgcacat 1920
atccgagcat ggtacgagtg atgccttgtc ctggctgacg gatttgtggt ggccatatag 1980
tccgcagcaa actgtggttc attcaattag cctgagactt tttgtatctt gtcctgagc 2040
ttcgacgcac cttcatagtc gcggtagtta agtgacacgg cggaaatgcg cacaagtacc 2100
tcgccaggac ctgcggtggg cttgggagct tcaactgatt ggaggctatc aagccttgaa 2160
gggacgtcgt cactgctgaa ttgaagacat cgtgtagttc tcttggggat aatggt 2216

<210> 2093
<211> 3110
<212> DNA
<213> *Aspergillus nidulans*
<400> 2093

tttttgactg ccccttgtgc tctaaaggag ctaaacaggg taccctcttt ggcaatggcg 60
aagttgagca gaagcccaac cctgaacccg atggactagc gatgaagagt ttaagaggca 120
ccaaaggttc agggtaagat cctgctctgt catgaacgaa ttctatatac cccaagctat 180
ccactatcta ccaaggtagc tgtgttatgt atatctttgg ttcgtcctac tcccgtgccg 240
tcattatccc gacccatggc ctagattctg ggccgaggct cagatcctgt gcaacagcta 300
cggaaaggte ttgaactcgc gatgcaaaga agtaattaca tcaccacctt tagtacacta 360
aggcacggta cgagatgctg gcttatagtg tctgggctga ttttagtgat aaagctagac 420
gacctctata acaggaatga ggccaagcta atgctgttgg actctattag attcttcttc 480
cgaccgaggg tcactatggc ttgcgaagga atttacactt gattgatagc tctaacggcc 540
ttctcagata attatatgaa tcttattccg ggccattttc tatccagaat attgtgttcg 600
ttcatgtgtg atatgagaag agtagataaa aagcgaaaca acgtcatcgt ttgctaccct 660
gcttagtacc ttttcacgct ggatctttta ttacagttac tccccacttt ccttcgactg 720
aaccacacct acgcggtcat ttgctagaac ctcatagtta ctgtatttct ttgttcgcct 780
tgggccagcg gcttcacccc accgcagcat tatcactactg gaacctcaac tcttcccttc 840
gtcggtttcc acgcacagta atcgccccac ggtcccgggc cctgctaata ggcggtcatt 900

cttttctcac tactgcagca accggttgca gggagaaaat tctgaccagc gtttcaactc 960
 agagtctggt tttggaggag ggtgcacata gaaatcagat ctctgtctttc ctccgcgcgg 1020
 gctcttcgcc actcggacgg tgctgtgac ctcttggggc agctgctcac ttccggcctcc 1080
 gttagccacc agactttctga ccttgctgtct ctactcctt ttgacgctga tagcgcagct 1140
 aaatccagtt ctctctattc gatcatttcc ctccagttaa tccagtcgcc tctgcgcacc 1200
 aatttacgcg agcccgaatc ctaaaaagac aaaagatcgc gaaaccgagc ctccgcaccg 1260
 tgcagtcaaa ccgcgagaat acagcaaaga ataccggggg tatagatctc tatgtcgaca 1320
 gccacggcgc ccctctgatg ttccgaccgtc ccatgtagca cgâaccatcg tcgttccccc 1380
 ttagcctcat cttactccg tactcaaggt tgcgccgttt aaagcagtcg ctctaaacg 1440
 gccgactggt actggccgct gggccgttga ttgcttggga aactatgggg gctgcttcat 1500
 ataatccga tggttagtta tatgccgtta ttctttcctt ccctggact tctcctattg 1560
 ttccatttgc ggggcagcaa caaacatcag acttgatgg gtgcgagacc gagacgaacg 1620
 aaacgacatt acaggaatca aagctagagc gcaataacat aagatggaag cagatgctgc 1680
 ccggtctctg tctttgcttc aagcttgctt tctgcctgca cgttcgattg agactcggaa 1740
 caatcctgag caccgcgttg catatttctg gatttggctg gaacagtcga aagatgctaa 1800
 cgatattttg aatcgcaggc gaaccaagtc ctttatcgtc cccgttggga cgattgtcag 1860
 aatctccgga ggacgagtct ttcatgacac ctctttcggga cgaccaaacc aactcgtcaa 1920
 aatactctgt ggaaaacact tcagctgggt ttgatgtcct tccaagggtg gtaaatcacc 1980
 atcagcggta tccccttgca ttatgggccg gcaccataat gctattgtat gaaccataat 2040
 cgagactaaa aaccacgatt tgatatcttt ttcagggtccc cgctccttga gcagcatgaa 2100
 catggacttg gcccatccgg tctagatcgt atacgtccc aaccgccgtc tcgggtcttt 2160
 acacttccaa acatgtccac ctcttctatt ggcgcgttga gtccccgaac cctctccct 2220
 tcaccgcgat ctctttcatc atcgagagcc aactcaatgg ctgtttcgtc tagccaagat 2280
 ataaatacgc tggaagatct tcatcggttt ccctccgaat cattacatto tttttctttt 2340
 gcgcaacaat ctgaggagct attacacact cgccagaaca tctgaagag atctatagac 2400
 tttatgcgcg accgcttcaa atggggcccc ggtagcacga cgggggtcgc cagccccccg 2460
 aaccgtatgc gcggcgatac ggacacgcag gcgatgggtg atcttatgtc ccagtccagc 2520

atcttcgggg ctctgttcgg acccatgacc ggacctgccg atttggaag cgacaatgtt 2580
 ttgacagaa catttaccga tcttcagcga cactgccag aagccaagga ctctgggcag 2640
 ccgccatcgc aactcccagc gcaacctcat ttaacctcca gtcagcaact acctcacgaa 2700
 agaagagggt taaagtccgc acctgcatcc aggcgcgtaa gcttaaaacg tacattcacg 2760
 gacgtcagtt ctgctatacc tcagcgtcaa ctgatagaac ctctagcaca accatatccg 2820
 acagcagacc ccttttcccc gctaggtacc ccgatcattg gctctgtttt tocaactcca 2880
 gccttgacac cccatagcag caaatggaac cctgtctcaa ggccgttttc cgaactgaat 2940
 ccaaggcacc ctggaccatc ttagcggcga atgacttatc atgtctcgta tttggcggtg 3000
 cacaggctga agttcgcaag ctgagtatct tagaggctgt acaagaggat cgacggcaat 3060
 gggtcgagtc aaaactgcga aatccaccac cgatgctgca gccaaagctg 3110

<210> 2094
 <211> 3017
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2094

aagaatcgcg tttgactacc gcaccacgcg aatgagacct ccaaataag ccttatagcc 60
 cgagcgtttg ttttcagggt atatcgggtg gccaaaagtt agcgttaagg ggcctttcgt 120
 cggttcaagc gtcaatgcct cgacgtgcga cagcctcaac actgagacgc gatcaacgcg 180
 tttctcttca gccagcgggg ttctgccggg cggtaagac aatcaagtcc acccacagct 240
 cgtccaatca gcagctcgga accgataagg cactttttcc tacctaaatt tcttgagcac 300
 aatcgatcca tattgatccc tcttctatca tcggccagga agtaatcgga ctctaccggt 360
 atcatgtcct cagattcgac tactcaggcc gcttccccag ccgaaggctt aaacccatct 420
 cacacatacg tccccaaaca gggctatgcc aacgaagacg gcgccgtccc cgctatggcg 480
 gggcaagacc taacacctga agacgaagat tacgaaggcg atgaatacta tgatgatatc 540
 ttcgaggagg agctagatga aggagacttc aactcttcaa accctgcaga cctcacaaaa 600
 gcctacaatc gtcaaaggag agtcaacgag ctgcgggccg atccgaacgc cccaaagtgg 660
 acatatccca aaacgaacac acaaaagcct accgtcaaca cgtatgcac cgctgatgat 720
 gagataaaat ctctgactcg acatgccgct aaaatcaagc ttgacaatgt gcagtccggg 780

ctggcagtag gcggtggcag cggcacccgat agggcggata gagccacctc cgagcaggtg 840
 ctggatcccc ggacgcgcgat gattcttctg caaatgatta accgcaacat tgtttctgaa 900
 attcatggat gtctgtcaac cggaaaagag gccaatgtat accacgccat gctacagccc 960
 gaggacgatt tcgacgcagc gccaatccac cgtgctatca aagtctacaa gacgagcatt 1020
 ctggttttca aggacagaga caagtacgtt actggagagt tcagattccg ttcagggtac 1080
 aacaagagca acaaccgagc gatgggtcaag ctgtgggccc agaaggaaat gcgcaacctg 1140
 cggaggatat acgcgctggc attccttgcc ctgagcccat caacctgcca ctccatgttc 1200
 tagttatggg cttcgtcgga aactctaagg gcattctgcc ccacgcttga aagttgttga 1260
 cttcaatatt tccgacccgg aaagcaaatg gcgtgagctc taaatcgaca tgctagggta 1320
 tatgcgtgtg atgtaccaga cttgtcactt ggtccatgct gaccttagcg agttcaatac 1380
 tctctacat aacgataaat tatacgttat cgatgtcagt caaagtgtgg agcacgatca 1440
 cccgcgcagt ctgcaattcc tgcgtatgga tataaagaac gtcagcgatt ttttccgccc 1500
 gaaaggcgtc ccaaccatct ccgagcgggt tattttcgag ttcattcatt ctgccgaagg 1560
 cccggccact gtgacggatg aactgcgtga tgctgtagag aagcttttct cactcgaacc 1620
 cgaggctgct gacgaggtcg atactgctgt cttccgtcaa cagtacattc ccagacact 1680
 agatcaagtc tacgactatg agcgtgatgc ggaaaaggta aacgctggtg aaggtgatga 1740
 tcttgtgtat cgggatcttc tagctcggga gaaaccctca gctcccccg acgacgaggc 1800
 cgagaccggc tccgaagtta gcggcggcgt ctctattgca gagtctggct ctgaagatga 1860
 ggaagaacgg gatcctttcg agaagaaacc tccgcgagga aagcgtttcg aggacaaaaga 1920
 gtctaaaaag gagcataaga acaaggtaaa agaggagaag cgcgagaagc gggccaacaa 1980
 gatgccgaag cacctgaaga agcgtctcgt ctgcgtcgtc tctaggaagc gcaagtgggc 2040
 aactggacct tatcactcaa tccatgcata ttgaccgtgc gtcaactctg tctctcagct 2100
 gcgtctggtc ccattctggt gacattcgca tctcaagcac atgaaccgct aactacccc 2160
 aaacaagtag atcggttccc cattcggcgc atgccatcag tccccggcag aggacaatag 2220
 cgccctcgac gcttgtctag gcgcccgcaa aatatattag atctcaagat ctccagttta 2280
 gagccacaaa aactaaatca gccatagaag gtattcatcc gtacggatct tccgagtgt 2340
 gaagcgtatt cttattttct ccacacagct ccatcatatc cctccatcaa tgccgtatac 2400

ttctcccat ccctaacca ccctttgatc ccgccctcca acttccaact cttgggtctca 2460
 ctctcctcaa cgccctgctg ccgcaggtaa tccgcaaacc acccagccgc gcgtgttccg 2520
 cgaccttgag aagaccctaa cacaacagga acaatcgag gtcagtcacc gactactctg 2580
 agccatggaa aactaataa tgaagaacgg cgacaagaga cataccacaa tagaagatta 2640
 cgtttttttaa cccccggact cttacgaggg ttaaacaact ggcagaagtg gatccagact 2700
 ttgtgcagca gaatggccgg gcccttgatg gtcacactca aaacaagctc gcgaggtgac 2760
 cagccgaaat tggcccggtg tccttggtat cggttggacc atataaaaat ggcttggagg 2820
 gatccgtttc atctttggat gtaaaccctt tctatatctc ttttcacat gaatcaaata 2880
 aaacttttct tctgattatt gcttctgcc aattttttat atttattaat ctcttctctt 2940
 agttcttata tatacatctc tcattcatta ataatttcca aaccttttaa ttttatcatt 3000
 atcttatctt taaatca 3017

<210> 2095
 <211> 1073
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2095

ccactgttat ggtccactga aaacagatcc ttcttttgat tttctcggct gacgatcttt 60
 gtacccggtt tcggggctga tgtttgagat gggcccggtg ggaactcgtc tccccgcat 120
 gacctctaca gcgcccgcac actacagcta ccactctccc acctccagcg acagaggccg 180
 gtcaaggcag aactcggatg ccatggacat ccagtccttc actgaacgag agccggcgac 240
 cagatacgcg gttgcgggcg gccctgcgcc ctggaatcgc aacgggtctc cgagcatgag 300
 ccctatgtat agcaagtaca tctctcttac ccctccgttt ctttctgctt ttctaccacc 360
 ccatccctct ttccagtctg agtccaggct tgttccgctt gaagtggcta atgtgatcct 420
 cgtcttctct ctttctgtgt ttagcaatt ccgagcgaaa ccagtttcat gaagagaacg 480
 gacgcaccta ccatggcttt cgcaggggaa tgtattttct tccgtgcgat gagcaagaac 540
 aggatcgctt cgacatcttc cataagctat tcacggtagc gcgggtatcg gagagtctga 600
 tctacgcgcc ccatccaacc aacggccggt ttctggacct aggatgtgga actggtatct 660
 gggcgatcga ggtagcgaac aagtaccctg atgcgtttgt cgctgggtgt gatttggctc 720

ctattcagcc tccgaaccac ccgaagaact gcgagttcta cgcgcccttc gacttcgaag 780
cgccatgggc catgggggag gattcctggg atctaacca tctgcagatg ggttgcggtta 840
gtgtcatggg ctggccaaac ttgtatcgaa ggatattcgc acatctccgt cccggtgcct 900
ggtttgagca ggttgagatc gatttcgagc ctcgatgtga tgatcggta ctagatggaa 960
cggcattgcg gcattggtac gactgtctta cacaggcgac acgagcgagc catgcgagcc 1020
aatcgcccta tagctcccg c gatacaatac aagacctgca ggacgctggg ttc 1073

<210> 2096
<211> 2160
<212> DNA
<213> *Aspergillus nidulans*

<400> 2096

tacgcttttc tttgtctcag gcacccctctg tggagtcgct tcctttgttt gccctctggc 60
ccatcgatc tcgttttgtc tgtccagacc cgcggcttaa gaaccgctct ctagactgtc 120
tccagagtgt ccagagtctc cagactgagc gctgcaacaa gggactgaca gggactggag 180
acggctgtca tagaactcta atctccagct gctacgtctc gcgactccat ctggaacgag 240
gaaagggtggg ctctgaatgt aacatcctca gttagatctt gaggccagaa tctggcggtta 300
atthttgctg ttccagaaaag ggaaaaataa ataaaaatca aaaatcaaaa aaatttatta 360
aaaaaataaa acagaaaaaa gtcttggaac tgatttgctg ccaggccggg agcgtgcctg 420
gggatttcca atcgaccctg cgggtgtcca gagagccagg cttaaactgtc tccggattag 480
ggactctgcc agcctcgggt tcaaccgtcg ctgattgggc tcagtcgcct ctctgaagtt 540
tggaagtttg gccaggcact gcaggagcct ggagggtggg gggatgtgtc cctcctcgt 600
ctggcttttg ccagtcactg gtggtgacca agtggtacag ctcggcctct ccttagcct 660
ttcgtctac cccgggcacg tcccacttgc tttccactc cgtgagtttt tctctggccc 720
ccaggcccag ctgtcagttt gagagtcaga gatagcgta ttagcctgga atctctgaat 780
gggaccatct gcgcctagca tttaggtaca agcactaatt ttcgctctcc gctaataata 840
tggctcgttt cttttcgtgc gactgagcgc cccctctct cagattcgcc atactcagga 900
gtttccctcc atcaaccgac cctactccgt cctcagccag gaataataat aataatatta 960
atcctgacca tttcaggtcc ggtaaattac cagtccgctt ggtgtttacc ttcgtttctt 1020

ctttcttttt ccccttctcc acctctgtcc tctggagtta gccaaaggcta gccagtgaag 1080
 cgggctattg ttctggcctg aggatcacct cacaaccgac tgaccagact ccctcaacac 1140
 cacttactta tactactgag ctectctgca gttctgaaca tacacggcat atgtttcttc 1200
 ctacctagag cagagtccga gtctttccac gatctctcaa ggtccctcta ttataactaa 1260
 ctgctcgctt cggctccggt cttgactgtc gtatcaccaa gtcgcacctt gaccagctta 1320
 ctaggcatat atattacccc tctctatta ttcttctgg cgttctatta ttattattcc 1380
 tcccgctgcc tcgctagtga tatattatgt tccagcctca aagtcagcac caacagcacc 1440
 gtgactcccg tcgatccgtc attcctcgac ctcgtttctg tccgtccaga ctgcagacca 1500
 gaccagaccg tcccaaccg cgcctcctg gccttaactt tctgtgata accttgtcct 1560
 tgtaacctcc gatcctgtct gtgattcctt tttcctgtgg ctctcttctc ttccctcaa 1620
 ctttcttccc tcgtctcatc tcaaccctcg tccgaccctt tctctctcgc gtctgtgct 1680
 gtggccattg agttggccac tcgaacgcaa ctcttttctc atcagcctct gcttctctta 1740
 tccggctcac tgcccttttt ccaacggatc ctagactctg gttcttgtgt cccgttcctc 1800
 gggccatatt cttgagttct tcgtcgctgt ctggggccat cccacaatt tctaaacttc 1860
 ccgatctcca gtctctccgc gccctctaatt ccgcatggc tcttggcagc ggccgcgatt 1920
 tcagctgtcc ttgggatgag cctcattgtg gaaaggtaat ccgctccctc ttggtaattt 1980
 cgccactcgc taattgtttt cagtcgttca atcgcaagtc agatcttggc aggcactatc 2040
 gtatacacac caacgagcga ccgtaccaat gtacctaaa ggactgtcat aagagcttca 2100
 tccagcagag cgtattgacg gtacattccc gaacgcacac gggagagaag cctcatgtct 2160

<210> 2097
 <211> 2333
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2097

ggggaatttt aattocatgg taaaacggta aggatttcct taacaggtaa agccattacg 60
 ggtcttttga aggtctgggaa ggctcaaacg ctgggattac gggctcgagcc ggctcatgc 120
 attacgcagc ccttccaggt ctctgggta gggctggccc gtggttggat ccgtgtgctg 180

gtgcccgagc ataaattccc gtaatgcgac attcatgggc taaggctcag gagcaaattc 240
 aggtaacaag tgttcgacaa gttcttcaga ttatttaacc ctccggagat cggatgagtt 300
 tctgtctctc aaaagaccaa ccgggttgat atgtatgac tatagaacga ttgtcagcca 360
 ggcaaaattt ggtaggggtg atcatttctg tacggacctt gcggtatgat atcctcaagt 420
 cgcgttatga gctgattgta gttgtcaccg tactttgaaa gtaagccaac tatggtgtag 480
 agttcttgcc gcgtttgagt gtgcatcaca gggatttgcg ggactataga gtcgtgcgaa 540
 ggcattgaaa gatctggaaa gaggtaatta tcgaagagct gttctgtgag gttgctgtgg 600
 atgaatattg ttaactacat agacagcata tgagagaagt gccgactcac aaggatatga 660
 gagtgatgtt agctgaggca gaaatatcca agcaggactt caagagccga gaaaaaccga 720
 ggataatgtg atctacaggc tctctaccaa caaactgcaa caggttagcg aagtatatcc 780
 tgaaaaacaa caatcatgca acaaacctcg ttcgttctgt ggctgagcat aatgccgctc 840
 cattgcctga gatattcact gaaaatcaag tcatgagggg atttctccgc gaccgatgtg 900
 aatacgatat aagcggcctc gaaaaactcc tgagactgcg ttgggaattc tagcacacgt 960
 gagaaagtac ggacaaaagc atcccatatc gttgagagta tatcgatcct ggtgggggtc 1020
 tcagagagcg caacttctcg tgcttcttgt gcttgcgggg cggggaattt tggtttcttg 1080
 aactgctttg aaggactaca gataagaaaa ataatgtccg atattccctt tcgaataggc 1140
 tgatgggact cctcaatgag tagagagaac aagagccggt cgaacttggc ttggtgcttt 1200
 gttgcatccc agaagctggg gtctctaaga gaccttcga ggaaaatagc aaaaatgcag 1260
 cagacaagtc tttgtatcgt gagttccgac atttgggggt tgcgcaagcc ctgcccgacc 1320
 tccaggatac gaactaactg agtaacaaaa gctgtagaat ctggaattac gggcacatca 1380
 ccagacacag gcgctttcac tgattttagt tagccataag gctgatcgaa aatagaggtt 1440
 tgggtgcgat ggcttaccg tcagagcaga gagcagacat tcaatcaagc tggcagcaag 1500
 ctgaatgctt atagggtgagg ttcccaacgt ctccaacaat tcaccgagag tcagggcagt 1560
 gatcacagac tgaacactat gagacacat tgattcgctc ggggttggct gttgaatata 1620
 attattagta agtgatagtt cgacaaaaca taaggtcaca tacctcaaga gcttcttgct 1680
 gaagagattc agaaagtgca ttgacagagt acagaaattt atacggcctg tccatgggaa 1740
 acatattttg gtcggtttca ctaggagact tgaccatata cataaccttc tctggggcg 1800

gaaagacaat aagaaactca tataatctgtc acaatgatca gccatacttc attggtaaga 1860
 gcaacaacgg tattaagacg cacctcccga gcgagatggg cgtcaagatt aagaagctcg 1920
 tataaatcgt caaagtgctt caacacctca ttatcaaccg aagtcaaggg ctggaatttc 1980
 cgtccagccg tgccacggca gctcgggtct ctccggacga tcatcaatcc tgatgagagc 2040
 ttcaaatccc gaagtacctg gtcaggtttc tcgagaaggt ccatcctttg tcccgagaat 2100
 atgatcataa gcttggagaa accggtcatt tttacgagcg tttcatggag ttcagaagcc 2160
 gttgacaaat ctccaatgcg tagcgagcga accttggatc gtgaaccacc atcaaacgcc 2220
 tggtagcgta tatcgatcaa ttgcgctttc tccggctgga aaaatatact gggaggtgaa 2280
 ttttgtggtg ggctatactg gggtcgagaa cgtaaggctt taaaaattnc gaa 2333

<210> 2098
 <211> 2981
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2098

atcctatcac gaacgtactt tttccaccaa tttactatca caatttgca tctgcaatta 60
 accgacaagg ccacagtatc caaggatggc agatcttgcg aagactccct ttgtacggga 120
 gctcgcctca agcggtagat aaccttctct ctggttagatg cgaatgctga cttacaaaact 180
 gcagacaaaa aaatccgcga caaagccacc gactctctca tctcttctct tcaatctaag 240
 accaacctct cctcctcga gcttctcaaa ctttggaag gcttgttttt ctgtacgtcc 300
 tcgctataca atccttctag gaatcgttgt tgattgatgt ttatctgaaa caggcttcta 360
 ccactccgac cgccccctta cgcaacaagc cctcgccgc aacctctcct atacgtcgt 420
 tccctctctg cctogaacaa cagtgcata gttcctccgc gcattctgga taaccattgg 480
 gcgcgagttc cactctatcg atcgctccg tttagacaaa tacctacttt tgattcgctc 540
 gtatgttggc gttgcgttcc agatcttctt gaagaacccc agctcggcct ccactaccac 600
 aaacggtact ggtaccggta ccgacaccgt taacaagaag cgcaagagag aggactctac 660
 gaagtccaag aaacgctcaa agtccaagtc taagagcgcg caaccggcct ctgacaatga 720
 agacgaagaa aaaaacaccc atcccaactc agaatctccc tccacaacct ccaacagcga 780
 ctggacagac cttcagtcct atatagaaat cctcagcgaa ggtccccctc atcccttaaa 840

ttctgatccc tcgcagccca aaccggatga ggagaagggc atcatcccg tgcgccacgg 900
 ccccgacggc ctgcgctatc acctgttgga catctacgtc gacgagctgg aaaaggctct 960
 tgagtttgac acggaatctg gaaagcctgt gggcgaggtc cccgctgaga ttctgatggc 1020
 gccgattgaa aggttgaagg ctgagagccc gcacaaaccg gtcagggtaa gggctgcgga 1080
 gacgctggct gatgagagaa tggttacttg gggccttagg gagaaggaga agaaggagga 1140
 aatgaggag gagagtagtg gggaggaatg ggggtgggtt ggggatgatt aattcattca 1200
 attagagcca gtcattcgac ttagatcatg tgtatgtgtc tatgtattta taccctttgt 1260
 taaaagcagt catttttggg acgtctctcg ggttattgaa agataacact agacggctta 1320
 acaaaccag taactgagat caaaacgatg tatatgtata tatacgtcta tgcgcgtcgt 1380
 gtcttaggat gtaggataca cagtacacaa tacacaatga atccacgcct agcagctcgg 1440
 aaccgaaagc cctaccgaag ccaaattga cgtcaaataa gaatataaca gttaaacct 1500
 acagaaccat gggaatacgt caagtcaatc aaaaagacg ttgtcagggt gggatatcat 1560
 acaaggaaag acagcggtag cggcgggcca acatgtagcg tctatgccag acgaaaggcg 1620
 acgattaggt agctaggtga cgagggtata tctgctcgcg tgcttcagct tgatccggca 1680
 tcaacagtca caaaagtcaa ggccttgggc agccgcttca tatagggtggc cagtcttgga 1740
 gaggactgtg cctagaccct tgtggatttc gacctgaaa gcttcgaagg ggattttttc 1800
 tccatcgacg ctgatatacc cctctttttc ccttggggtg agtcggaaag cgagtgcctt 1860
 gcggatctcg acttccggca tatcgaagaa tgtgccctcc gggacttcgg acatcatttt 1920
 caagatgcgg gtacgaggag ttttccgtc aattgtgacg atgtccataa ggccatcggt 1980
 gggcacggac gccgggaaga agttggtatc ctctgatact atggccatgt tccccgaaa 2040
 gaagttgcca attgtgtctg ctggtacgac gggccagtct ttgggaagct catcgagaac 2100
 ggttccatac tcaagcttgg gaagaccttc ggtgtattcg gagtctgac gcgagggatc 2160
 tgggtggggg ctgttcacat atgcattata atgatgcttt atagagcttt tgcgtccat 2220
 taccactttt atagcaaggt cacaagggtat tattgctcgg gacataaggc gcattaaaaa 2280
 gccgtaggta aagcggtgag ccccatcca gcgaatgtgt tccgtgcca gatctgagtc 2340
 tgcgatgatg ccgaaagact gtgataagaa ggacagagtg cgagtgcctc cctgcgtaac 2400
 ggacatgaga tcgatgggca tgcgcactcc cttgatgatg gtcagagctg cgatggaaac 2460

gctgcccgtt ccgcaaagat tccaggccat tgcattcccc gaaccgcacg gtaacatggc 2520
 aacggctagc tttctaaggg cttccccggc gttcggcttc ctgcgagacc cgttgaagac 2580
 ttcatacggc agcccatccc ctgagcagca tacagatggc gtcaaacgca ttgacatcga 2640
 tttgctctgc aatctcagtg gcatgtcccc caatgtgtcg tttcttgac atccagctca 2700
 cagtgtgcag ccgcaaagac aggtcccgcg tatgttcgat acatttttagc cgcattgtccc 2760
 ttgccgccca cggggttgat cagggacttt aagtcgctta taacgctgcg catgncgtat 2820
 gcanagctag taagtttgac atccattgct cgaccctcga tntctcttca gcggcgatgg 2880
 ggtattgcag agcggtaacg cgatgtcatt ttgcctgggg ctgcggtang tatggtcacg 2940
 ccactgacat acctgtttca gccgtataca agaagatgag g 2981

<210> 2099
 <211> 3082
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2099

ccttgaaaaa tgcgccttga cagattgcag tcgaggggcy cttcccacca gactgtagga 60
 ttatgattcc cgcactagag tgccgctctt tgagatgttc atagaggtac gggctggcgc 120
 cgagaccgcc aacgaggatg ataccctgct cttgttagag atgctgttaa gatgggtaag 180
 gtatatacct tgacgtcgag gccttggtc cttgctttgt agacttggcc gtcgacgagt 240
 ttgtcgattc cagcaaaaga ctcagtaa at gcattctgaa tatgggagct agatcgcggt 300
 agacagagac acaatcagga gatttgagcg taccctgaga aatggattcg tcccttcttg 360
 atgaacggct cagcactcat gtgcgtccaag ctgtttttcc caaatgcttc tgctgggtata 420
 ctcacaatat actccttttt ggagctttgt ggtttaaact gtggctta at ggcggtgttc 480
 cattctccct tgaggatctc ttttaatacca gccttgctga gatgatccca gcgacgtccg 540
 agtcgtgatt tgcattcggtg ttogaaggct tcatcgataa agataccacc acacagacca 600
 cctagaaagt ttagaaagaa taagagtaaa gggttgat at acttaccagt tccctcgacg 660
 gcttcgtgca ttgcgatggg actgaccgag gctatctcgt aactgatcaa gtccctacgac 720
 cgtgagctag gaggtgaagt tggagagaag caacctacaa cgggtgccacc acccgcatcg 780

cagataacat agacatcacc tggctgagtc ctacgaccag gctcaciaag cgtagataat 840
gctgcagcct ccggtcggg aacaaagcta agcatagtct cccagcggg ccgactgctc 900
aagattccag cttgtcgagc agcttctctc attccctgtc ttgcataacc cttccagatg 960
gcaggcactg taattacgac atggaaccgc aacgcatcaa tgacatactc accacgagac 1020
ttcttcaccg actccaagat atgcgcccac aagaggcgga gataatcggc gatcaagcca 1080
actgcagtct tgccagtctc cttgagcctc ttgcgtccac gaagaaggaa ctcggacgaa 1140
cgagtctctt cactcaggtc ctcgtctttg acaagaagga gcttgaacca ggggactgga 1200
tctgcatcat caggaatctc atagcccag aaaatctggt cgtcttcgta aaataactca 1260
gttggcgctt tgccctcttc tctgcccgtc cccggccaac tggatgatgag attgatttga 1320
tcgctagcga aatctgcgac cgttgcccat gcgacgccag aataacttta caattagaat 1380
cagcgcgtgt agagtgcctt gggactcacg ttgtgccaaa gtcgattcca atgaccatga 1440
catcgtcttc gtcattctcg cttggggctg caatcttagg gcgtagggt agaatcccg 1500
cagaaggcgt aaatgtcatc ttgatctga atgatgtggt ttgaagaagg caatcacgga 1560
agaaggtagc gtgaactcct taagtgttc tggaagaaat ctggctgcac ggccgtgtta 1620
tatggaagcg cgctcctaac cccggccgtt cagcctcgtg cagcaaattc caccttgag 1680
ccgggaattc ttaccaagtt tgatgcttct ccatgctaaa gatgcatgag tccacggatg 1740
gtccgccagt ggtaggccca tgtgcagcat gagcagtctg aggagtacag ctttcgctc 1800
accttggtta gacgatgca tggccgctgg ttggctgctc aaacacgctg ataccgtacg 1860
acaaggctga agcaatggt accaggatac gagggctaag gcaatgcagg ttggtgcttt 1920
gtgcaatatt taccgacgag tggaccaat gattgagctt gccattgtga ggccggagct 1980
caaacttctt caaggctgcc ctggccgtca ttataatcta ttgacggga tacacaacat 2040
aaggctacta gtcgattggt tctcgattcc tgcacagctg agcagtcagc cactggtaat 2100
atattctatc cctccttga ttctaatct gggacagttc agtggaaatg gccaaacctc 2160
gtcgcaatca gctgagacaa ggctgagggg tctcgcaatt gtctaacaga tttaccctc 2220
atcaaactca ccacattacc aattccacca gcgcaaacg taaaacttca cggttaactcg 2280
atcgctcgc gcaacatgac gcaaacacca ccttcccaca gcgttgacga cggccagagg 2340
cctgataacc aagatacaga gatgccagac gcagactccc cagaggcct cgcagatcgg 2400

cgaacagata tatcggggag agttcatcat ccagcccaca cggccgtatc ggggccacag 2460
 caattagtga aaagtgcgc ggcacgtttg ggggaagcct gaggtgaaag cctcttgccg 2520
 gccnccgct ccaccacatc gcatcctgag gatgccagac ccggcgagcaga acccgaccga 2580
 cgaatactcg gacacaacgc aaccagtggg aaatgccgag gttgacccat cttttaaaga 2640
 cgatgaggcg gcatgtcgag tacttgagcaga ggaaatgagg cagaggatcg aacagcttga 2700
 gagtgatctt gcaaagtcgc cgtcgccgga ttctgtccgc gcgctagaac gttcgcttca 2760
 ggcagaaaagc gccagcgag aacgactgca gcaagagctc cgccagaagc acagcgaatt 2820
 agacgtgctg cggaagcact ggaagcaagc tgcgctagag ctggacaagg cgcggtccca 2880
 gagccagggg ttctatcaag tgacggacaa ctatctcatt gagctgacaa cccgcttgccg 2940
 ctataatcgc aagaattttg cgtttcaata ttctgacggt gaaatgaagg ggcagagacc 3000
 gagattcgac aaaccgaaaa tatgggataa gtacatgcaa acaatcactt cggatccctt 3060
 ggactgtgag gttctcatgt ta 3082

<210> 2100
 <211> 2785
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2100

tacgagtcac ggctattgct agcagccagc cagtatccca ggcttaaggc cacctaggaa 60
 gcctgctgaa actatggatt gcaaaccagg cttgtccaag tatcttgctg gggtaaacag 120
 tcttcacact tgacctccg atattgactg cggagagtat ggatagggac atttacacgg 180
 tcgaaaaggc aaattgacaa aaatattgcc agttatgctt aatggcaaac ccttggtgga 240
 gtggcgatca acgaagtact aaagattcgt gccctgattt cactgttaca actataaagc 300
 caacttcgat ctcaactaaa ttatctctc cccaaccctt gtccaaacct cgacgtcctg 360
 gaagttcctg acggttcccg tgccgcaaaa cctgtcctga gtgtccctcc agtccctgtg 420
 gactgccgtc tccggcctcc accgaaacgc atacttcagc ttctcctcaa gcacgccctc 480
 cagcctctgt ttaatggcaa tccccacagc cggcatcacc ataaagccat tgccagaacc 540
 tcccactgca actgtgagag acttgactt cggatgctga tcaataagga attggcggtc 600
 cggcgtgtcg gcgtcccagc agattcgccg aaaggcaaag gggcgatccg ctatctgggg 660

gaccgtatcg cgaaggaact gccgtgccgc gtgctcggac tgtagtggga tctgatgttt 720
ggcgaatgga atggacttag ggaagtcatt caagacctcg gaggtgggaa tgttgacagta 780
gccccgggtgt tcgtcgacga attttagctg ccccgctcag tcgggttcct agcagccata 840
cggtcagtag cgtctttgtg aaaggcagtt ggctaggaac gtacgataaa gaaaccggaa 900
ttgacgttga atagtacagg cagatccttc caaagcttcc tctcctcctc cgtcatctgg 960
atatgcgcaa gtgtccaagc cgtcggggcg aactgtttct caaagtcaag taactgggtca 1020
cttcacgcgc cagcacagag aatgacgcgg tctgcacgat gctctttttc gtcggcggtc 1080
tttgccgcca cgatgtcgtt ttgggtcatcc gtgtagagaa ggctcttgac acccccttcg 1140
tcacccgtaa caaacttcac gccagccgc gaagcctctt tgtaggccgc ttctagcgcc 1200
cccctcgcaa ataccatcc agcgccagcc tcgcggaaga aacctttcca gccggaaaag 1260
tcccctgtca ggacgccccaa cggcattgta gctctgaaat ccgcggccga gttgagtaac 1320
cggagtttat ctctgcaggt gctaattgtac ttgtcaacat gaggcattgc atcgctcctgg 1380
ctcgcggcca taataaaacc tgttgggtgg tagaaggggc gaaatacggg gtcgggtcttc 1440
caggcattgg cggatgatctg gtgcatccgg ttccagacgt attgctcggg ggtgtctgtg 1500
tcggacgggtg cgcctagctc aagtttagac cgggagcgct tggattgaag tatctgcaga 1560
taaacgcacc ctctccatg attttgttta catcatttcc ggcagcagag ggtgacggta 1620
tcggactgcy ctcaaggacy gtgacgtttt tgtagccggc tcgcgcaagc tggagagcgg 1680
tgctgcagcc ccaggtaccg ccaccgatga tgagaataga tgagtctttg gtgagttgag 1740
acatagtgtg tgtctgttat tacctgaccc tctgagtcgg gaggggaggt gacgaggtgg 1800
tatttaaccc tcagcgcttt gcagaggtcc actgcccac tcgtgcgggcg cctatcggtc 1860
ggcactgtgg gccaaaggaa ggtcctgccg agacttgata gggcttatca gggcagctca 1920
cagtatcccc aagcgacaat gttggaggtg tgtcgcggat gccatgcac caaaccggag 1980
ctcttggcct gtaagagacy accacgcgag gtcaacggcg atatttcata gataggtagg 2040
tcaatggctc ggctctaacc gtgtgatctc cccacttcc ccgcactgac gacctgccat 2100
gcaggcggtt tcgtgatcc caccctcaa gccttctgga tggctggatc aagctctaga 2160
aagagcttag cctctctctt ggaccttct tgcaaatatc ctttatcgct ctatcattct 2220
ccttctccgc attgctgata cgggatactc gtggctgatg ctctcgggtt gaagtatggg 2280

ggtattttaat ccagctacgg ctccctgtag aaggggactt aagatgcttc aggatagttc 2340
 ttttaaagtc aaataaatat cgatcatgga cgacatttcg cagtcggaag ttccaggaac 2400
 catctttatt gtggggagtg agtggcacca tacatatcac caagcaagcg acggcccacc 2460
 ctaattccaa tactaacgcc tcacagcgga tgcgacaaaag ctggggagaag cagatgtcac 2520
 cacatcgaac gatatcgtgc tcgttcctcg cccactcgag acaccacggg accccctggt 2580
 acgctgcgtc ctaccccctg tctcaacttg ttggtagctc tgtcactgca gactgacaag 2640
 caaatcagaa ctggccgaag tcaaaggaac tatggacgct cttcttagcg actctcttcg 2700
 cgaccgtcgt cgcctatgcg aaaacaatct tggcgcgccc tggacggagg tcgccgaaga 2760
 tattgacgtg acaatgaaag catga 2785

<210> 2101
 <211> 3682
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2101

tggttaaagc tcgggttacg tatagaacaa agaggaactc cggggagaat ttaaaacatg 60
 tttcaaaggt gaagcgggtc cttccagggtg ttttaaaaaa gggttacgtt tttccttcga 120
 agagtattcg caaaagaata cgctgtcgag gaaaaacctc tgaagacccg aattaggatc 180
 gaaaatgatt taaaagagcc agtttagcta aatgcgggat ccctagaaga agggatcttt 240
 caggtggtct gctgaagtca tcccataaaa agtgtgccga atcatgcctg accaaccaca 300
 tgcttgactc cccgccggtc ggaacaacgt tatcccgtec aagtatatgc ggcttcagta 360
 agcaagaggt ccggcaaaac tagcattgga atgctagaag tcaataattt agtttatgca 420
 atagttgtaa aggaatagtc tgtagaagcg gtatgtagct gatcgttttc atgtttgtgc 480
 ggggtggggca cgaaatctat gtgtggtagt tttgtaaata atctggctac ccaatcgaga 540
 ctatgtacac acatcgaaag agagcatagc gtatctacat ctataaagat atttcttgaa 600
 cccttgacag tccggcatac cagctgtggt ctccctgcag agacgcttga cggatagcgt 660
 acaactcgtc gatgaaagtc gtagcaaagc ttccagggcc gcggacggag tctcttgca 720
 cggcgcttctc ggcagcaatc tcatacatca gaagagctga gagaaccgca aggaacttgt 780
 cagttggatt ggccgcgatg aaacatccag ccactgtgcc gacagcgcaa ccagtctgaa 840

ttaagttaga tatgtgtttc agcagatagg gcaaagtcaa acatactcca gtgacctggc 900
 cgagaagtgc atgtccgttc tcaacggcaa caatcctttc gccatcgcta aggtaatcca 960
 cggcgccggt caagagaacg atgttttctg gtcaaagtta ggggcgattt gtagacatgt 1020
 gcaggaatgc atactttctc gccgagcaag gtcacggggc aaccgtgcct taccctgggtg 1080
 gtcaagcgta ctaggtccgc tgtcaacacc tcgttgctga acgctagtgc tgcccgcgac 1140
 ctggcggatt tctccttcgt tgcctttgat gagatcgaag tatcccccg ccatgagctc 1200
 cttgacaacc cctcgtcgaa tctgggtcgc accggcgcct actggatcat acaccaccgg 1260
 gttgccggtg tggttgtacg ctgcaatagc cttgaggtac tcggaaggac tctggctagt 1320
 cagagtggcc atgttgataa gcaaggcacc gtcaaactgg cacaagtccg tggcctcgtc 1380
 gccatacggc gacataatcg gcgatgcacc gctacactgg ttagtaagcc attaactcga 1440
 tgctagcgta actcacatag ctaacgtgac attggcgacg aagttggcga cgacgaagtt 1500
 gatcatgttg tggaccaacg ggtggatttc aaccattttt tgaacaatat gcggtacctt 1560
 ctcgagcaac cctgcaacat tgcaaccaa aggtccgtcc gccttgcgta caaatggcgg 1620
 cggagtcgcg atggcccggg caagctctgc cgccgccgct ctgggatcat ctgcggccat 1680
 gatagcgctg acaatagcag caccattcaa gctcttcgg ggagaggcag actggtacag 1740
 taccggttga acgttgaga ggttgatccc accaatacaa acagttcca catcgcggcc 1800
 agattcggca atggagtcaa ggatagcctg cgtgccagct gtgccaatga tgtgcttgg 1860
 gtttgttttc ctgctagata agcatatatt ccattttcta ggcacggaac tcacgttgg 1920
 gtagcgaata acgtcccgat accaaggtag tccgcgccc cgcgaacggc cgctgcgcc 1980
 tcttcaatag atgaggcgct aatgccaata attgcatttt ccggtagaag cttctttgct 2040
 tccgaaatca ctgggaatct cagcttatta atccaattta gcagaaggga acatacccat 2100
 atcatcctgg ccgagatgca cccctcagc tcccacagca agagcaacat caaccggtc 2160
 gttgatgac aagggcacac cgtgggcctg agtaatccgg tgaagctttc gggcagtttc 2220
 gatctgagcc cctgtgtcgc tctttttgtc ccggtattgg acgaccgtta cacctgcatt 2280
 gccaagcgtc aatagagtac aacaggagg gaggtgtcgt acctcctttg acggcttctt 2340
 ctactacagc acacagatcc cgccccttga ggattggggg ggtggagtct gtgacgaggt 2400
 agacggaaag atcgagcttc attttgtctt ctgacctatt acccaggctg caattgcctt 2460

cattgatagg aatgtgtagt gacgttaaac catcatgcct gtttaggaaa ggcgtctcgc 2520
gtgcccgcga atgategtca catgaccaga taacggaaga aaaaatagtc cgagcgggac 2580
gacgacttcg ctcttgcggt gacttcattc cggactcgag aataactcgcc ggtcctcgaa 2640
gttctccaac cactccgacc aggctgtaag tatactccgt gcagaacgcc agtctcctca 2700
ctcttttata cggtgagtca ttttattgct ttgtttcgct gctctactct ctctacgttg 2760
tctcctgcag taagggatca tttctggaac caattatccc catcgtctca ccgagcagta 2820
tgaacgctgc gcggtagtcc tgaccacact aatgcggtaa gcagtcccggt gaccgccaca 2880
gcccgcacatc gggatatagct cctcttcacc atgccagctg gccacggcga tctgacagcc 2940
atggacgacg agtcttctag agatatcgct cctcgtcagc tcacgctgcg agaccgggtc 3000
actgtcgcga ccttggtgcc gttccattcg tatgcgcata ttcccaagtc gctgattgtg 3060
tacttatgcg accaattgaa ccgggagatt gaaaaggcg acacttatgc tatggtcgac 3120
ccgatcccag tacggcattt tgcgccgtac tggttctcga actttggcgc gatcatgcta 3180
attggggaca tcaaaaatgt caatgatgtc caggagatgg acggcaatgt gaattgggcc 3240
aaagtctgtc ttgggagttt caacgtcagg ccaaactacc cggggcgaag tagccatgtc 3300
tgtaacggca tgtttcttgt cacggatgct gcgagaaata aggggttagg tcggttaatg 3360
ggagaggcct atctagattg ggccgctcgg ctggtttgtg ttatgtcgcc caaaaccgaa 3420
gtgctgtgtt gacaagccag ggatacacat atgccgtctt caacctcatc tatgaaagca 3480
atgttgcttc atgccgactt tgggaaggtc tcgggttcaa gcggattggt agagtgccca 3540
atgcaggccg agtggtgtcg agccctggag aatttgctga cgccattatc tacgggagcg 3600
acttgggatac tgacggcgaa gacccgtta cgcaagaccg gttcgataaa atccgctact 3660
atctcaaaca ctctaaatac cc 3682

<210> 2102
<211> 2829
<212> DNA
<213> Aspergillus nidulans

<400> 2102

gggatgatat agggcagaga tcgagaccgg gccgagacga cggcgttgag cgtggaatcg 60
gcggaagaat gctgggagcg acggctgtca gatcggctct aggactcggg ctgcgggtacg 120

atgccaggaa tagaacgata tggaggaata ttgggtttca ggaagagcgg tgggtcccgc 180
tgcaaggcgc acagggatgc agcggttctt atggctcgtc aggggcgcac gatagagtct 240
gcctagttag ttgggagacg agttgaatga gcatgctgat tgtctgacag aagaagaaag 300
gaagcgaaga ggacgggtcag ccttaaaaaa ccagctgagg agcgggtctga gtctaaggtc 360
ttggaaaacg aaaggtgagg tccgttggtg cttggtggag agtaaaaatt tgttagggag 420
ctagactagc tcggccagtt ccaccgtctc agctagtcaa tcagcgggag gccaatccga 480
cgggaagtcc ctcagcagac cacggcagct ccactctccg gtatcaggaa tccaagaatc 540
aagtgtttac tgtttgggct gatgcctagt cgagagaccc cgtacctct atgagggtac 600
tcagtcttgc caagtctgtt gagtcacccc tattgtggca aacatcccgt tttcttgctc 660
tgcgctgac tgacgttgag gatgctgtta gttcttgctt tatctgccac agctgtcgcc 720
atgtgccagt cgtcgccgat caattggctg gccaaaggcag aagtatcggt cgggccttag 780
gagtccaggc tgacgggggt cctgctacaa gaacgagcga tggcgagacc aaccagcgg 840
gttgaaagaa gaatccttgg ccccttggcg ccccttcttg ctgcaggaat gggtagcat 900
ctagccagct taatcgctat tctggttgct tcgtcgtctc atcgtctcaa gccgctcgtc 960
caacaccgtg accgctagtc gtgcccaggc cggtttttta tctacgtcga ttgtggaatc 1020
gcaagtccaa ctttaccag gccgtcacac ccgagatcgt cgatgcgcac atacattcgg 1080
attgcgttcg ggattgcgtt gggacttgaa ggtgaggact ctaggttatt ggacggagca 1140
ctggcgaccg gtgatatccc gaagagaggc ctgggtcattt cgcaacttga agacaggggg 1200
aatgagctct acacaaagaa tgggtcgaaa acttgcaggt caagttttct aggatggatc 1260
cctaattctag tacaacatgc gatagagcac ccttgcataa accagctgca gtttctgac 1320
tgtttcttga tctgtttctt gatataatg gttatggcgc aggggtctctg atcgctgagc 1380
cagtcgctga tactttaccg cttcccgtaa caccatgcct tcgttcaact ggctagtctc 1440
cttctgaag agtcctgcc atgggtgttg gctctccggg atactgtaac cccctgcggc 1500
ctccaatgcc gtcgtctct cgtctagttc ttttcgcgag acaaggatat ccacggggcg 1560
tttgttgagg tcgacggga gctgtctcc gtcgcaacg agtgcaagat tgctccagc 1620
agcggcttca gggctggcgt tcaggatgga cggcgatccg gaagttcccg attgtcgacc 1680
atcccctatg catggcagcg acttgatccc ctgtcgcaac aaatgccag gagggtgcat 1740

attgaccacc tctgcgggcg caggataacc tagtggccca gtcccgcgca tcaactaagat 1800
 actcttgtca ttgataggag cctcctccaa tcggcgatgg tagtcctctg gcccgtcgaa 1860
 aacgacaacg gccccttcaa aggcattggg gtcgtctggg ttttccagga aatgctgccg 1920
 gaactgctct gatatgacgc aagttttcat aatggcagac tcgaataggg taccctggag 1980
 gtgcacgaat cctgctctt tcataagggg ctgctgtac ggcttgatga cccgctcggtc 2040
 ccagctgtga tgccctttca cattctcagc gacggtatgt ccgttgcatg taagaatgtc 2100
 tgggtgcaac ttcccagcat ctaacagctc cgccatgata gccggaaggc ctcccgtctg 2160
 gtagtactcc tcgccaagaa attctcctgc tggttgcata ttgagcagaa gtggaatgtt 2220
 aaaccctagt tgggtcccagt cgtccaggga gatatcaacg cccatatgct ttgcgatagc 2280
 attgatatgg atagggggcgt tgggtgtacc gccaatggcc agtattacag caattacat 2340
 ttcaaaagcc tcccgctca taatatcgtc agggttcccg gtgcggtgca ccaatttcac 2400
 aatttgtaaa cctgtttata cccactgag ctggttccaa taggcgcggg atgccgccga 2460
 tccttgcaag gccatccaag gctttgtccg cgcgtcatgg tcgagggttg cccattatac 2520
 aggcctacc gtgggccttt tgcgtagtaa aaacttgatg actgtttcca atcctttaaa 2580
 aaagtcctat cctaattata ttgcccctgg gttattttcc gcaaaaattc tcgcccttgt 2640
 gttttttgcc cttttaaggc ctttcataa tcggtttttt gtaaaaaaaa aatattttgt 2700
 tctcttgtgc caactacgtc gttgtttata atcccctatc tatacttatac tttattattt 2760
 actttattaa taacttttcc tttatcactt aaactttttt ctctttttct ctccctctct 2820
 aattatata 2829

<210> 2103
 <211> 3213
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2103

cctctggaat ctggatcagg ttttgactct ttgacaagaa aagaggccac gctccggtca 60
 gatttgctcg gtccctaaat tggggccgtc gcaggcgccg cccggctgga cttgaaagac 120
 cctgctggaa ggtccgcggc atccatggga tttcattagc ccaccaggca caaaagaggg 180
 tcattctatg catccactgc gctccgcca ttacggccat ggttggttctt ggctgtcgac 240

cattgggcga gacgcccaatt ggattatttc ggggtccattg aaggaatgtg ccgctcagct 300
ttacgagcat cggccgattg attctcgttt cggcagcggg ggatgtatat tccgttgctt 360
acataattgc ccctaccgct gattgcagga gcgtagccac agtttgcaat ctacgcgaga 420
cgagggcaat aagatatttt gagatactgt caatcttagt cgagattact ttttagattt 480
tagtcagtgc ataagctctc catgcgccat ggaatcataa aactgtgcgc aagttcgtgg 540
ttgggcacgt gccagcctca cgctatcca attaggaaat catgaaacat tcaggcaacg 600
acatcacaaa aacagctggc cagcttggct gctcttgctg acacttggcg agaaaacctt 660
gtatgaatga cactgctgct catgttttcc ccctcttgag gttcttctc agctccaatg 720
cgcccttctc cgccctaaga tagagtctg cgggtagcaa cagcattcct gcttctgaca 780
cgagacacca cattcttcac caaacaggat tgcattgcca gccaatcccg cagtcgggac 840
cgatatggtc gcgacagtga tcgcatcgt tcccgcgtcc aaccacgcag aagataccac 900
gtatccgagg acgatgacga tgacgacgat ttcgacgaca acccacgcga ccgccgttac 960
agacgagatg gctaccggcg cgcgcctgtt gattcacgag cttacgattc tcacgacgat 1020
tacgaagtag ttgatgtgga ggaggaacca cggagatacc gatcggatac agagcgacgg 1080
cgggaacggg ccagggcgct accgggcacg tcacctcgca aacgagaacg cacacgggac 1140
tcaggcgggtg ggcacagacg acggcgaca gaagagagcg atggcagcca ggcgccgcaa 1200
gcccaccggg ataggaggtc acgcacaaga cgggatcgcg gcctggacga tgaggattta 1260
gaagacgctg cacgaagact ccgtcgccgg gaacgagaac gcgagcgaga acgacgcgct 1320
gaaacctcta agcacaagag tacggactct tcgaatagtt cggccggggtt gttgaatgca 1380
aacgccttgg ctaaactcag agcgcagcat gaagagtgg accgtcagga acagcgctcg 1440
gcagaaaaag aagctaaagc ggaaaggaaa agaaggcgca aacgacccgc agtcgaaggg 1500
cagatgcgca ccctcgatcc gtttctgat gaagtcctc ggggtcaatc caaaggctcg 1560
atcgtatcgg gggcctacct tgaagaaggc agggctccag atatggaagt cagactgcgt 1620
gggggcggaa gagggccacc gagggagaga cgatgggaga aagatagtga tggtcagccc 1680
cactgacacc gttctggaag cggaagaaat ggtggtggat tggagccatt gtgctcgta 1740
tcgtggtcat aattattgtt gtcgcggctg ttgtatcgaa taataagaaa agcgactcag 1800
attccgactc agattccaat tcagggtcat cagattcttg gggtggtgat aaatcgctc 1860

taaatggact tgatcacgac agtatcccgg taagcctgac ctgccactcg tttgcgaaag 1920
 accgttatac taacatgctc tagaaatccg cccaaggcac agtgcttgac ccatggacat 1980
 ggtacgaaac aacagacttc aatgtaacct atacagacga gactgttggg gggctctctg 2040
 ttatgggctt gaactccacc tgggacgatt ctgttgcgcc gaacgaaaat gtaccgccac 2100
 ttaacaagcc atttccgtat gggtcacagc caattcgtgg tgtaaacatc ggaggattgc 2160
 tgtctctcga gcccttcac acgccctccc tatttgaagg ctactcatca gatgtcgttg 2220
 atgagtacac gctaaccaca aaactaggcg acaacgccgc cagaaagctt gaagagcact 2280
 acgcaacctt tatcacagaa caagattttg ccgacatggc tgaggctggg atcgaccatg 2340
 ttcgaatccc attttcctac tgggcagtaa accccaggga agatgagccc tatgttgcca 2400
 aaatctcgtg gcgttatcta cttcgcgtca tcgagtactg ccgcaaatac ggactacgag 2460
 taaacctcga cccgcacggg atgccgggca gccaaaatgg catgaatcac agcggacggc 2520
 aaggcagcat tcgctggcta aatgggtgatg atggcgacac atacgcccag cgctcgctcg 2580
 aatttcatga aaagatatcc aagttcttcg ccaggaccg ctacaaaaac atcatcacca 2640
 tctatggcct aatcaatgag ccgtacatgc tttccctgga tgtcgagaaa gttctcaatt 2700
 ggaccgtcac agccgccgaa ttggttcaga agaacggcat taccgccaaa attgccttcc 2760
 acgacggttt cctcaatctc agcaaattgga agacaatgct gaagaatgga ccctcgaacc 2820
 ttcttcttga caccatcag tatactatct ataatgttgc ccagatcggt ctaaccaca 2880
 ccgcaaaggt caacttcgtc tgcaatgatt gggttggcat gattggtgaa atcaattcca 2940
 cttctgaagg gtacgttcc ttcctttctc cattcgtgta cgtcgcagat tatataagat 3000
 actgacaaga acaaagctgg ggtcccacaa tctgcggtga attcacacaa gccgacaccg 3060
 actgtgcgaa aaacctcaac aatgtcggcc gcggcaccgc ctgggaaggc acctattctg 3120
 agggcgactc gactatgtac tgcccacggc cgaacagagg acatgcagct gtaccgaagc 3180
 caacgcagac ccgtcagaat actcagatga cta 3213

<210> 2104
 <211> 1318
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2104

tccgctgttt tcattcctcc ggcactttac cgacctggc cgggaaaagg atagactcgc 60
 cattgggacg acggcagaat gttctgtccg aagaaatcta gaaacgctct attctcatat 120
 ccaagatgca ctcataccgc tcgattccat ggccgcttgg ttggtgacc tctctgggtc 180
 tggctctttc ttttccctc ctttcagcac ggatgatttt atctctgcgg actttctggc 240
 ctccggctcc gggcctaact aactctcggg acaattaaat gagctcatga tggaagtgtg 300
 tgaaacctcc aggtccatgg agctggaggg ctctagcact atgcagttgc cgctcgacac 360
 tacgcagctt gttccccctt ttacggtctc taatgttggc atattcgtct cagtcttctt 420
 ccactccctt tactggcatc tgccagtcgt gcattttccc acgtttgacc cgggcaatat 480
 atccaatccg ctcttactct caactttttt gacaggcgca acgtacagca attcactcaa 540
 cgaagcagcc ctattacca gacttctcga tgtcgtgaa gagtatatct tccgaaaggt 600
 caccgccttg tcaactcagt ctggtccacc gattctcgat cctacgagca actggagtac 660
 gatacaactc attcaagcag gtttgatcat tgaaatgctt caattcggtc aagaaagagt 720
 ggaaactaga cgccgcattc gaggcattcg tcattcctagc ctagtttctc tcatgcgttg 780
 cttgggcatt ttcaatctga agcgatcaaa gccttctaca gttgttgatg gtgatgatac 840
 tttgcggaaa tcattgatcg cagaggaagt ctgtatacgt cttgcatcgt ggacctttct 900
 tgctgatgga ttcttcacgc tctgtttcaa aaaccgcccc gcgatttcca tcttcgagct 960
 cgactgtccc tttccctgga agacagggct atgggaggca gagaatgcat ccgccttcag 1020
 ccaggtcgct atggaccatg aagaggagct tccgctgcct tctgtaagag aagcagttcg 1080
 attactactt gaaagtccga accccggccc cgtaccttct agattctcac tgtcagcaga 1140
 acatctgcta atcataatct atggtaagct ctcatgcaat cgcttcttcg ataccatgct 1200
 aataacccaa atcccagcgc tgaattctct cgctttcatg gctagagttg atttctttga 1260
 ggctgtatcc gttggagaaa ataaggcgtg ctgccagtaa ctggaaacaa atatggga 1318

<210> 2105
 <211> 555
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2105

tacatagctg tttcatagtt ccagtgttgc tgtttccatc gcattggatg gcccgagtt 60

gtgcaatcta tgtgaggatg ataccagtga agactcatcc gcgcgttttg cgactttcgt 120
 tgattgttat cgtacaatag cccttgctta atcccagcac caccgcgtac ctacaggctct 180
 ccgagatcgt ggtaacattc atgcaggtag caagagtgcg cggatcagtc tggaccctgg 240
 cccaggctga acatgccgtc caagctggca agctcagcat gacatcaagc cccccacgtg 300
 tgcacgggc gtatcatagg cacttcgttg ataaacagag gacagctggg catcgcttct 360
 cccgatgcc aaccgacagg ctggcggcct gggctctctc actccagcgc agagctgcta 420
 aggtccttga tccaataccg gcgctgaaac gataccccct tgcgaccttc acccggggct 480
 tttccgctga cgtaccgat cgaaggaccc attccactaa gactccggat gtcttgcgga 540
 tgtctcaagg acata 555

<210> 2106
 <211> 1102
 <212> DNA
 <213> Aspergillus nidulans

<400> 2106
 gacattataa aaagcagcag aggtgaggag aagcgtccg tcaacacagc tgataataat 60
 ggccagtgtc tgggccaagc aggcgtgat caaccaagta gtgtctccgc ttctgctttc 120
 cgagttgtcg caaaaagagg ctccagcctt tgagcactct caccaatgat gttgtttcct 180
 aatcttctga agaaatgtct catataagac caatagctgg ttcttcgttt tcaggcctca 240
 ggattttcac gtcgtggctg gtgggggtgt cttgtgccag atacgcgaca agttcgcggg 300
 gaggaaggc agcagacaaa ttaagcagtt aatcgtgttc gaatgatcga catatgaaat 360
 gaagcagttg tagaggatat atgtcatata taatggacta ggacagacta gtaaagtgtg 420
 acgtctgctg ttgctgtgaa gagaaaagag tggcgagcag gagaagttcg aaccccgaaa 480
 tatgttttgg tcacgtccaa gttcactaaa gatacaacat tgccattgat atattgccca 540
 cttggccccc ttgttttatc tataagcaga caaatctcag tagtccaatc gcatcaatgt 600
 gcgcgagact tcagttaccg ccataaggat ataaaataga gacatatattg cctaactaac 660
 taggggttgg ttctacgta tcccaactgg ttgcgtcctt caaaaaacca cacttgggtt 720
 cccgatatgt cggctcatgga cacaaatcga gaatctcctg tcagtaaacg acggtgatga 780
 cccatgagag gagtctcgtc tggcggagct ctcggaaggc caaactccaa gccccgagaa 840

gcacagagag gagtcacagc gtagggatta gagatccaga tactttgctt gccatcatca 900
tctctgaccc agtagagaat gccattatca acgttggcca tagacaaaga gtcagccacc 960
cgaagatcga gcaatgctg tatacaaaact tgttctgttt gtgggtgata agtaattggt 1020
agaacgaacg aaagagcaga tgaggacgag acatagagga accccatgtt tttgtagtac 1080
tgtggttaagt ccctcgccaa gt 1102

<210> 2107
<211> 1407
<212> DNA
<213> Aspergillus nidulans

<400> 2107

gtgatataatc gtatatacct gcgaggaggc caagataactg atagcaggtg aagtagcatt 60
tttgaatggt atcatatata gtatagtcac acatgggttg gccgttaagg tgtcattaga 120
aacggtattg cgactgtcca gcccgtgga cgcacttatt taacttagca tcagcacctc 180
tgcttgtgac atgggatcca cagtgcggca cgctactgtg ccgttggtcg cgacgtccag 240
tatcacgacg tgacatgagg gtgctcaaag aagcgacatc acacactact caacctccat 300
aagaacatca ctcatgatat gcagaacata cgaaaacttg cgtacgctcc acttccccgc 360
atccttcagg aggctgcat aatccagcag gatacgtctt gcagactgat acccaccttg 420
aaacggtaca ccacggaaat aaacagtgcc tgcattccga atgaagttca ctgccggatc 480
atccgacggc gtgaatgtct gaggcccgcg tggttccata aaactggtga atccctctgt 540
cccgacacgc tcccagtcga tgtcatcaag gagttcgatt gacgtccgc cgactttag 600
ctcactgggg ttcggtacca tgaagatgta gaggccgagg acgagggctg ctgaaaacag 660
agagaaaacc gagggaaca ttgtgtgatc tgatgctttg cggttggtca tcgccttgta 720
gatgtgtgcg gcgtgaaggc atgctcgtct ggcagctggt gtctgtgacc aggttgcaat 780
gtcatctagg gctttcttgg cgggtcctgg tctgcgcg cggcagcta gatcgaatat 840
ttgagtatct gcggttaagg tcatgcatat gttgtgccac atgacggcgg cgtaggatt 900
gagccgctcg agaacctgc cgtatttgtc tgcaatttgc agctggagtg agggtaaaca 960
tctggcgcgt ccatccatgg catacgtatg gcaaggtgca aaaggatagc ttgccctatt 1020
cgaaagaagg cgggtgataag cttctgataa gcggagctgg accattgcta gaacgccgtg 1080

aatacaaaaa tcgtcgacag ggctttccaa gacgggcaag gtgacgttct ccgaaggtgc 1140
catgactgtt ggcattagta gacgtttgcc gctacggacc aattgaatcc atcgcatgga 1200
gccgttggcc cggaagagac ctctgttgca gggtagaatg agttggattg agtcgggaac 1260
gataatggga ctggctgaga ggaaagagga ataccaggaa tccaataaga gaagcccagt 1320
aatcaacctg actggtcagt atttggtaga ataaattgat cagtcgacat accgcttgac 1380
ggattcaact ttgctccagg tttgccc 1407

<210> 2108
<211> 439
<212> DNA
<213> Aspergillus nidulans
<400> 2108

gagacatcac gactattccg taaatgattt atgcaattta gaaaacatta tgaagatgaa 60
caaagtatga agacgaggct gggatatgtag gtcccgtgac tagttcggtc acgaaatacc 120
acgtgagaag cgaagtatga attgggcgaa ctccggccaa cagctttagc acgtgattcg 180
tategccgct gtcggaagcg ctattcccag tacggtagac cccgcgatta ttctttctgg 240
atagaggcaa gaacttgact cactgctgct caattaaagt gaagactcct ttctttttga 300
atgtccgtga aatcacaaca gaagtaatat cgatacttaa aaatctgctc cttttataca 360
cggatatagcc gttctttacc tatctcaatc gaccatgtcg catacgtgtt cccaaaagta 420
cctcagtacg cgggggtgg 439

<210> 2109
<211> 607
<212> DNA
<213> Aspergillus nidulans
<400> 2109

aatgacgagt tccggctagc gtgggttaca agccctaaag tggaggccct cgcttagagc 60
acagtggctt agctaatacat ccgccccgat ctcaaactcc tcaactttggg aattcaatcc 120
gttgctgagt gcaacgaaca tcatccgcca acgaccgtcg atacgccgac atcaagatgt 180
gagttcatct cccgaagtcg atactcttat cctgcgaacg aaatactgct ctttgatgga 240
cgtctaaggc gtgttaagcg tgccatggac tgttgagctc gaagcgatgc tgcttcgtct 300

cctccgggat agaatttctc gaaaggcctc atgctgactg cgtgtgtttt ttctcgatt 360
acaggggtcaa ccttcgcacc cagaagcgcc tcgccgcctc cgtgggtggc tgcggcaagc 420
gcaagatttg gctcgacccc aacgagatga gcgaaatctc caatgccaac tcccgccaga 480
ccatccgcaa gctcgtcaag gacggcctca tcatccgcaa gcccgtcacc atgcactccc 540
gttcccgtgc ccgtgagctc aacgccgccc gccggatcgg tcgtcaccgc ggtctgggta 600
agcgcaa 607

<210> 2110
<211> 2319
<212> DNA
<213> Aspergillus nidulans
<400> 2110

aagcctggaa tagatttcgg caaggatatga cattctgttc aaagtatcag gatgttctga 60
ttgctgtttc ccaccaactg ccgttggaat tcttctgctt cgctgagcca tagctccacg 120
ccagattttg catgcggatc aaagtttcag ggtgttcagg cccaagaaca cggttgctgg 180
cctccaccac cgcccccca aactcctctg ctttgtttag atttccaagc tttttgtaga 240
ttgaagaaag gagggcgata ctgcctaatag tatctgaatg ttctggcccg agcacacgct 300
tgctgatctc tacaacctgt agccccagtt cttctgcttc ggtcagtctc ccaacctcag 360
tgtaggtgct ggccaagtcg tgcattgctgt ttatagtaag ttgatgctct gagccctgca 420
ttcgtttgcc agttccaaca gctgggcca aatctcttca gcttctttgt actttccaag 480
cccttcgtag gccagggcca tgttggtcat agtttccaga gtcattcagat gatctggccc 540
cagcttctct ttgtgaattc ttaacactgg tgtctgtagc ttttctgggt ccgtccaccg 600
tccttggttag caatatataa gtgctagggt tcccatagcc cgtaccgtag tttcgatatc 660
agtttcatcg tgtagagacc tttgtatttc cagatgtcct caaataaaag aactgcttca 720
ttaaatcgtc cgtctgcatt cagacaccag ccaactctct ggaccatctt aggtattcct 780
cctcgaaaag cctacttcac tgataaatga gagaacgtgt ggcagatatt cccgccaat 840
cgctcgggtg gtataagtat gagttgggaa gacctcatca aagcgaaaag ccgttggtga 900
taactgctga cgaaagcggg actgtgttct tagccagttt ctagtcgaaa ggtggaccag 960
tcgatggaga cttagcctgc caccttgctc attgatgaag gaaaaggcct tcagaagacc 1020

aactgcatcg gtggatttct tcttggaac tctctcgagg agtagggatt tcggatgtcg 1080
cgaggattaa tgcaagccat gaatagcaga caatcaggct gttgaacttg ctgaaatgaa 1140
atcaaccacg ttgtagccac cgggttctgt atctcattat acctccagtc atcccccaag 1200
tcttcactta acaacttaat catttctgat tcttggctct gcaagagctc gaggtaatca 1260
gagaagtcga tgctgttctc attgatgtat gctgctgctg ggtgatcgtc aaaggaagaa 1320
aagctagctg ctcaataagt ttaagtgcc ctgcttcacc gtcgttgagg agggttttgt 1380
caatcagtga cttctctaag atttgtaccg ctgcctgtgg atctggtttg gagacatgga 1440
tcacattagc ggaacgcaat agcacagcta ctttctgatt ccgcgtagtg aataggatat 1500
ggccttgctc atgctggggc agataatcgg tcagcgggat tgatccgact acagtgtctc 1560
gaggccacat atccaagcta tcagcgttgt caaaaatcaa tagccacttt gctgtctctc 1620
tctgactcag gtgggctttc actttactct ttgcatctgt tgccttcact ccgtgtactc 1680
caagcttttg tgctatgcat atatacgctt gctcgacgct ctcatggctc gtgcacggga 1740
cccaaaaata tggaataaaa tctctttcac gcatgcggta ggcagtctcg agtgctatct 1800
gcgtctttcc aacttccgcc gagtccgcag atcgcgactt tcgatggctc tgaagtcata 1860
agttcttcaa tcttggcgat ttccgcttcc cgaccaacga atctcagggt tttgtgaaag 1920
ggaaccatcc agcgacgttc gtcttctttc ttgggtgggc ttaattcggg ctgcttgtcg 1980
tgcttaggga tcaattcgag aaaagctttc gcatacgcg cggcagcaag agctgaataa 2040
ccttgccatt gtttgttctt gtgcgagtca cagtagtcgc agatacctcg aataaccaag 2100
catgggaact ggcccataag tccagcggct tccatctcga atcaaagtat gtccatctct 2160
tggaagagcg cgtctcgtct cgccgtgtcc ttgatgactt ggtttccgga ggcaatcaag 2220
ccgtagtgag gatacggctc tgattctctc gggcaggcg tttaccaat ctggtctgat 2280
cacattgaga gcaatcgggg ccagcctcat gagcgtacg 2319

<210> 2111
<211> 1524
<212> DNA
<213> *Aspergillus nidulans*
<400> 2111

tcgcacactg agttcctggc acaccttcct gagattcctt accagtaccc acagtccaac 60

tggcacctat tgacgcccta tcgttggcac ctccatttgc tctgtcatcc togaccaacc 120
 agacaagcca tttcaccaga gagaccgcct tctcgacatc ccgttcttca gcaacaacgc 180
 gcttcaagta aatcgcaaga gcggtaacat cttcgcgga cggcccttct tgagcaaagt 240
 tggcgtgcc aagctgttgc tcgtcacgta ggtcggagg gttagagagg cgcttggagg 300
 tgaatgtagg tctcggcggg aggtttggaa ggttgatgtg tttttcttga tgttgagaat 360
 ggcctcggtc tgctggaacc gttctgggtg cggttgtgga tgcggttcgt tggatgaagta 420
 atcgggagcg cttctgcttt tgctcttcga ggacttcgca gcgtatatct tctggaaggg 480
 cagcaaggaa gtcggcggaa atttcggggg ctgaagtaag ttcattggtct tggaatggcg 540
 agaggcggca gggacgggta tctgacttgg gaaatgcgaa ttttgcttga gttagagtgt 600
 agggttggga tggtttgaga ggagggcggc caccgctgtt cttcgggtgg gttgttggtt 660
 tgcgtagttt gagagtcgat ccagaggggc tgggttgagg tgatgactct gttgttggtt 720
 ttgtcgagcc ggtgttattg acagacggct ggttgtaata gcctagtacc tcggcgagga 780
 catcttctgg cactccgct agggtttccg gatctaattg ggactgcgga ggagagccg 840
 gcgcgggctg ctggcgaacg gcagggcctg gaccatttgg tgaccagcg cgagacgtgg 900
 ttcgtggttt accttgcgca acgagcttgg atcggatgtc atctgggagc tcagcaacga 960
 ctgcaggggc cggctgggag ggcataatga actgggttcc agatgtattg agcaatttct 1020
 gtgtggtgtc gtttagttgc ggaccatgcc gtattgactc cgattcacct ttgcgagggc 1080
 tgtccagtag gtctggatca tcaatagggt gtgcacgctt aggcgctgtg gatgccttga 1140
 aagccaactg ttgtgactg ccatcagatt tctcgatgt cgacttttagc ggctcgagct 1200
 tggtcatttg aacgccaac ccccttaaat caccagggga gatagcgagg cttcgaagca 1260
 tagcaatggc ctcttttcca agaactctg ctgcgttcgt ggctatcca agaatgacgc 1320
 tcttgttgaa aacatcgcat ttccatgac ccagatgttt gacggcttcc aacggggcat 1380
 cgagagccct tcgcatgacc ttgagtgtga gctgctggcc cttcattaga ttctcgacga 1440
 gtcttcggtg tagctcctcg cacagggacc gcatgaaatc ttccgcttga tcttgagtga 1500
 caaaacgaat gccccagtta acct 1524

<210> 2112
 <211> 642
 <212> DNA

<213> Aspergillus nidulans

<400> 2112

cttccggctt ggacaattac cagaggtatt caatggatga gtatgaaggg ggacatgggt 60
actacgatat gacgggccag gatccgatgg aaggggattc acgcatgcgt gagcgcaaca 120
gcatactgag tatgggcggc gggctcatgg gcagggcgaa acacatgttg ggaatgaagc 180
ctgagtactc tgaaatggac cttcccttga ccgaagcagg ggcacgagct gcgcgagccg 240
atagcacggt ttctgaagat ggccccccgc atgcgaagaa atcgagcaag ccatcattca 300
agtttggggt tggccgtagg acagtcgact cgtctaccct cggtcctcgt ataatccagt 360
taaacaaccc accagccaac gcagtgcaca agtttgtcga taaccacgtg tccacggcaa 420
agtacaacat cgtcacattc cttccgaaat tcttatacga gcagttctcc aagtacgcca 480
acttgttctt tttgtttacc gcggtgctgc agcagattcc aaatgtttcc ccgacgaatc 540
gatatacgac gattggcccg ttagtgattg tattgttggg gtctgccatc aaggaattgg 600
ttgaggatta taaacgaagg tcatcggaca agtccttgaa ct 642

<210> 2113

<211> 993

<212> DNA

<213> Aspergillus nidulans

<400> 2113

acgtttcccg ccgtctggat acatcggatc tcgtttggca caccgacaga cggctttcaa 60
gcgcgaaatt cgtgaaaccg atctcttggc cacatagcta gccttctccg gatgaggtac 120
ggcaaattctc ttcaaataaa tgattgaagc ttcattggcg gctaactgct cggtggttagc 180
tggcgcacgc gggcttcttc tacaaccctc acgagacgaa ccctgacaac acaacatgtt 240
ttctctgcgg aagagcactc gacggatggg aggaagatga caaccgatc acggagcact 300
tgaaacacgc aaaggattgt ggctgggccg ttatgatgga tattcagcag cgtagctcga 360
atccagccga gatagaagac cctacaagtg agccgatagt ccaggcaaga ctagcaacct 420
tcggcgactc atggccacat gatggcaaga aaggctggat atgccaatca gacaaggtaa 480
ggcagctttt ttgcaatcct aaggcttgta tgtctaattg tatatttctt gatggtagat 540
ggttgaaggc ggatgggtact tttgtcccaa cgaagaaagc gccgacctcg cgagctgcgc 600

ctactgcaaa ttgtccctag acggctggga gcccaaagac aatccttagt aagtatagct 660
cagttccttc cttactttct tcgactaact gagcagcgac gaacactacc gccgttcttc 720
cgactgctcg ttcttcgtgt ttgcaaagcc tgccaaagga aagggctcgc ggtcaaagag 780
agctcgctact tctaaatcct cccgccaatc aacacagtct acgacatccg aagttctggc 840
ttcagacacg gaggatatgg accagagcgc actcaccag ccagccagaa ccaagtcaac 900
gaagaaatcg tccaaatcaa aatcgaaaaa ctcaaaaact aagaaagccg agcctcaaga 960
ggtcccaagc catatggatg tggatgagac aga 993

<210> 2114
<211> 3090
<212> DNA
<213> *Aspergillus nidulans*

<400> 2114
cgagctctca gaccagccgg tgcatgaaa aaaccgggca cgccgagaga tccgcgcatt 60
gggcccattc gccgcgccgt tttcatcgag aagactgttg atcgagagaa catggaaaga 120
ttttcatccc cagacgcagc gatccgcgag agcagcgcggt gcacgagggtt agcgttctcc 180
gtcatcgctcg cgacgggtgcg gaggtcctca aacggcgagg tttccatgga ccagtcgaac 240
gaaatcttgg acccggtctc tccatcccac acttccatag cctggtaggg ctgcgtccgt 300
gagacatcca agtgatcca agcaccgatc ttctgcagaa atgacacgga cgagggcggtg 360
aggctgctga cgcggttgga aaactgggtgc ggatcgagct tccacgagcg ggctttgtct 420
aggctctgcg attccacgag ggcgaccttt aacttcgacg ttgctgggga tgcgcctgtc 480
cgtcttatca gtatatcgtg agccattct atagtaaaaa tactagatga tcgagcaatg 540
acatacggag agcagccagc agtgccagac cggcaggacc acctccaaca cagactacat 600
cgtatatatc cgttaccggc gcatgttccg agccgaatct ccgccgattc aggatacgcg 660
cagatcggca ctaaggacag acgttcggcc gcagggcata agcagataat ggccgcataa 720
tgagtggatg gttgggggtca attcgggtcca agattcccgg atacagtatt tcatgctcgg 780
gcatcatga gataactgca aacaggacaa acacacatta ctgcagctc aaacctcctc 840
cctacacgct acactactcg tgtcccaacc ggctgtatg gatcgctatt cttagcatct 900
gagctaccat cagcctgctc gagagtgccg cctaggctct ggtgccggcg gcgtcgtcgc 960

tacaaggcta tattcccttt ggagttcgga cgatcacagg atgcgcgccc agtcagcctc 1020
ctactgcgtg cattgggatc tgcttatcca tcgcctcaaa cagacctctg cagctggagc 1080
tgcaaaaaac aagtcgtcgg tgctctattc agaccaccct acctagatat gctccgatat 1140
tcgccatcgc tagtcccgtg acatggccac cagcctcagt tacactacat agaggtaggt 1200
acatatattgc cagaactgcc caggaaacaa gcgataatac agcacaccct aattatagat 1260
catcctcctg catgatgcat atgtatttca cagggcaagg gctatcaggc actagaatga 1320
ctgtatgcag gtcactgcc cgcgtcgtaa gacacgaaag tcgctgcgcc acgctcccat 1380
caatcgggtca ttcgcttgcg gaactcaaga gttttatctt tgcggcgctg tgatctccct 1440
tgtgaattgc tgcgtgggat actaggtagc tatgtatgta ccagctaagc aatccagctg 1500
agctgcaatt gccttatgag tggcaagtcc atggccacca cgtctatcca gattcagata 1560
atggcgtatt tgcaagtaga cttaataggt gtctgggccc tgtaggtgtt gctgttccga 1620
ttactataca cccacactgc aaacggtggg ttggtgtcgt ggccctggacc ctcaaagcct 1680
gggtacctct tacctatagt tacctacact gcctacatta tcttgcgtctg atatctataa 1740
ccctccgtta cccacccacg aaccatccct cctccgcctc cttacgatcc taccaggcac 1800
aggcagacaa gcaggcaagg taggcatcaa ccatgacaga caccaagacc tcagatcctc 1860
gagatcggtc tgtttcagca ttggcttcag cctcaacctc ggccctccaa ccagcagact 1920
ccaccactac ctctgcccac acaagaaaac aaacgcagtc caactctcaa tctctctcgc 1980
tctaccccg g tctcggcgct aacttcgccc atgaccctaa ggccccattt tccgtcaatt 2040
acgaccaaga ggtctatttc cagtttatgg ctggggaaga aggtactgac acgggggtcac 2100
ctgatgcaaa caaaaacaag aataagaata agacgctcaa ccaaacttat cgggaggtgt 2160
gtatatttta tttctcatta aatgatctct tcaatcttcc ctatcccgca aagacgggct 2220
ttgcgggtca agcgggtatat gcttaccaga cttaaaagga atgggtgcgt cgtgcattaa 2280
atcccccgat ttcagacca aggggtgacc cgagtcgat cgattttgag tgcgcggaga 2340
gtcagaggat tagggagagg ttttgattgt ttagggttgc aggaacaggg gtagacgaag 2400
gctttcctct aggatacaga gctagagcca ctaccttcca ctcgagaata tacctttgaa 2460
tgatagttat atccagaatt tctttttcgg atggcgcgag agcttgaaca aagcaggaag 2520
actgggaccc aggtgtgaaa tcatagggac ctgtcagggg tgtcaagaat tggcttcggg 2580

cgttctgccg gcatactgta aggcagattc caggtgggaa tgatatctag gtctaaaggt 2640
 caagggaact tgatataaac ttccaaaggt gatgaaggta cgccttttga gtagcagatg 2700
 gtatgagaca aatagcatat agtccgtact actaaatata gccttgagga caaggaaatc 2760
 agacaatgta ggttatgcgt ttgggtgagc gtccccgta ctctgttctt cctccatctc 2820
 agccacaaat cgttcccaag tatttagtac accctgataa aactcaatgt gttgttctgc 2880
 gagcgcgccc aaggagtctc ggaattcgat tgctttgatt ctttcaaagt cagccacttc 2940
 ccggacgacc tcttcgtcaa acatctccga agtgggtctt gctgattcga cttctcgtgt 3000
 gagctcgtcg atccgtagct cgagtttacg catgcgctcc cggcgcgaca gctcgtggtc 3060
 cactccgctc atgtcttcca tcttcggtga 3090

<210> 2115
 <211> 1582
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2115
 tactgtacat gacgagtca cctcagtcg caaagtgcc gatcttctca tgtctacgaa 60
 aatcgagatg gaaatcaaga actggcagct aactgggcta cctccgtttc ctgaactgat 120
 gcactttccg cgcgattgct ggagcaagct atcgcggacg gacctccgtc tgatccacca 180
 tatcatcggg ctctcgatcg acctccaccg gcgggggctc agtagctgca ctatctgggc 240
 ccagaagatg cactgtaag taccgatct ggattcgagt ctgggggtcat tgctgacggg 300
 gtagctttct gtctattgct atgtccaacg actttgtaat gagctccatt ttaaccttat 360
 ctgcgactca tcttgcttgg atcaccaca accaggaaac caaacagcta gccttccacc 420
 atcgggggat ttccattcaa ggcctccaga aagcgatcag cactttctcc aaagataact 480
 gtgatgggat cctcgtgca tcgacctcc tgtcatggca agatagcgaa tggtcgagct 540
 gggatatctt gcagcagggt gtgacttctg tattggactc gatgcctcag ctatggaggg 600
 aggagtccga gcttgccatg ttctggaaa atcaacgggt ttagcaagc gcgaactctt 660
 tggtcgtttc tggctctccg ttccaagaag aggatctggc cagtctcgac cacactatca 720
 tcacctcca gaccatcaa aagcgagtcg cacacaacca cgaacacttt cgtcgactcg 780
 gggaattgct cgagttcgtg cgacatttgc agcgtgatat cctgtccttg actcccgctc 840

aagccttcga acgcgtgcag cctctgcggc agtgggtatt ctttctcccg ccagccatgc 900
ttcgtggagg agatggtgat atcggagcct tggctatatt ggcgagttc tttggcgtcg 960
gagtagctct ggatagtctt ttacccgacc taggagggcg ctatctgggt ccgatgtccg 1020
taggacccat cgaagaaatc taccgcacta tctacgcaag gaatgccacc acccccttta 1080
accctgacgt acaactggct acttccatca tggatctccc tcgacatcta gccgctaaat 1140
acagagcccg tctacaatgg tcccccgaa cgtctgtcga gtactactcg ccgccgccgc 1200
cgagtccctt ccaaacgggtg caggactttc gtccagcagc gtctccatca ccttcatctg 1260
tctcggttct ttataccgca tataccccac cactgcagtc tccccggcg gtgacgattg 1320
cgagctcacc ctatgaggtt tccgcgtcgt atgcaacggc gccagctcag cgagcctcta 1380
tccccctgcc caacttctct cggacacgcg ggaagaacct tctgattgag gccatccggg 1440
gtctctacag cactccccgc catatcctcc ctctgtatct gaagacatag tttgcggggc 1500
tcgggtggat gggggccttg ctctgagccc tttggagctc tacgaagacc acgcactccg 1560
ttgtccatga ctacggcaca cc 1582

<210> 2116
<211> 2410
<212> DNA
<213> *Aspergillus nidulans*

<400> 2116

gggactgtgt gcccgaccc caaacaggcc tttccgcggc acacgtggat gaacgaaggc 60
cttcacgatg cttccagtcg tcgcttatca gccatagggg aagaggatac cacgtcgccc 120
tatcgggtctg gaaggaattc acaaggctcg gcgggtggaac gacatagtcg cgttttggac 180
tcgccagtat cgatgcgcga gaaaggcgat ttogaagggt ctgaatcccg agcgcacagc 240
agctcgtcaa gctcgacgat cagcggagcg agtgagactt cgtcatggga tgagacaaaa 300
gcgcgcgcag actacgtgtc tgcaaaagag attcgtggat cgagagaaga ccgccgcgca 360
gcccctgcgc cgtcaaacag tgcacagtcg acctcaaacg cgccggcggc caatgagaaa 420
gacgatccgg acgaggactt gtccgcgacg attttggaga gtgaggcaga gcggatttta 480
gagaacgcga agagacgatt gtcggtatgt tgcttgctac ctggattcgc ctctgcgtgc 540
gaaagctaac ttttgcagct tatggaggga aacttaacac gagctcgtc cacaatgcgc 600

tcaactactc cgtcgctttc atcctcaccg gtgccttccg ctccctcgcc tggcttagga 660
cagcccgttg gtggcttgta ccagtcgatt caccgcgcag ctgaccgcag gtcctccaat 720
ctccggccac gacagacata taagtcgcag gttacaagta acaataggca ttcgcgagtt 780
tatagcgaga ccaacctgcc gtccaaccca cgggatgttg ggaagactat gtcccgatct 840
gtgagcgoga tgggctctag cacgagctcc gacttcata atgatgagcg ctcttttcat 900
tacgcgcca ctccggcgta tcttactcac cgcgcgtcgg tctcgtctat acagcagaat 960
cacttagttc catctgtgaa ggaacgcgca tcctctaatt cgccttcgat tgaaggagta 1020
gaggaagagg aggcgaaaat ctgcaatatg gaagaattca atactgctta tccagttcat 1080
gacccccctt ctcgctccca atcccagctc caggtgcgcg acctgcagga tcagatgaaa 1140
gggcttcaca tcaagatctc gactctgaag gtgaaggcac aggaggatgg tctgcggcgc 1200
cgcagcctac agagtttgcg cacgcccagc ctttgacag ccgcaaacca ttggtacgcc 1260
aatcctcttg agcacactgc acgccgcagt cctctacatt tgagctcaga atatgaccaa 1320
tacatgaact ccccatcaa cagccattcc agcggcagcg ggcagacgtc aagtagcaat 1380
accgattcga ctgtccttgt cccggagagt aggccttccg aggcctctgca gtcgctggac 1440
ggcgctatcg ttgcagcctt tgaactaacc gaccatgaga gcgatcactc gaccgcggaa 1500
agcctctacg aagatgcaga ggaggacatc gaccgtgagg cgtagagga gattctacga 1560
gaacctctgg atgatgacct cgctgatggc gagctggagt cgcttcagc ggttgacgat 1620
actccgcacg aagaacgtga ggacgctttt gactacgagc actttattct gcatagcgca 1680
ttgggcaatt acacacagac gcgactccgt cggcaaagca atgcgtcgga aacgtcagtt 1740
gagaccaccc ggccaatcaa caagcgccgc tctatgcgtt ctataaagca ttccagggtcc 1800
aacagcaaca actctatatc cacgatcgca acctttgcaa cagccgcgga aggcagggac 1860
gacatcgaaa gtgttctgta ctgggaccgg aaatttaatg atggtacgct ttttactctc 1920
actatttctg accacaaaa actaataacc ctagaactca aacaccgcta cgtagaacc 1980
gaggatgaac aaacagacat cgaccctgaa ccagaacgca accctcgcaa atcgctcgca 2040
gtcgaatcgg tcgcctcaca gcgtcctgac tctgcagcaa ccggctccgc aacaccaacg 2100
tcgcttgcoct cgtcgcttgt ctgcacagtg cgtgcggcag caagcccaca tccaaactcc 2160
acgaacagcc acctaggtat taatgaagac gacactcggg tgctcgaaca gctgttcaaa 2220

agtctaggcg acgtttgcat gaacttgcat gaacttacga cgtcaccgga ctatgacgag 2280
 aagcaagcga agctactcag gcgacgggta caggccgcga ggcgcgtgct tgatgaaaag 2340
 attgattgat cgacggaatt tccttatcta taattaactg gcggtgcatt tttgtgatgc 2400
 ccatactata 2410

<210> 2117
 <211> 4198
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2117

cgggcgtgac gacgggctat tccgcgctgc tatcatcaga gtgggggtat ggcaggaagt 60
 ggccttcgac atcaaagacc ctgaggtcta catcaaggaa ctgtatatga atctgaccat 120
 cacgacgggg tgccgcgata gtgccagcgc acttgaatgc ctacgcgcac tgcccgcgcg 180
 gctgaacatc atcagcactc ccgtctactc aggtactggc ttggggcctt ggctcaccca 240
 ggtggatggt gatttcctgc tcgacggggc gactgagtca ctcgacaagc aacatttcgt 300
 ccttggtgcc atcatgtaca cgaccacttc ggacgatgcc acggccttca gtttcgtcga 360
 ttccgtgata ccgatgctga ctttcggaat ttcacggag ctggcggggc tgacgaggcg 420
 atttcggtga ttgaagcgtc atatccgaaa gatttggggg tgccagccgg ctggacatca 480
 gcagctaaag aagaagcgac atatggtgca cagtgggaagc gagctgtcgc cttcatactg 540
 atgtggtaga gacaagttca cgtcgacgaa cggtagacgc ctgaggtgca gcgaatggaa 600
 cggcagctta gactccagat gctatgtaga ggtggacgga tatcggcttg agcagacgag 660
 atatattaac agtaatatgc aaagtcgaat gtattactga ggtctctagc agcagacaac 720
 caagctaaga aaggccttat gacctttttc gaatctatgt cgtacgtgca gtagatgctc 780
 accctttatt tttcaaacac ctaaatgcat tatatatcaa gctcagagaa accaaacaga 840
 agtgctagtt cgcaaccgta tctctcaaac aaaaagccaa gcggtctgat agcatatgaa 900
 tcttcagaag cagatgtcct ctgtatataa aagcctgttc atgatataaa tacaagaaat 960
 atgagtcgaa atctgtgttg ttcaggcaat atgttaataa cgccaagacc tgaagtatac 1020
 cacagtacgg taaacatgca catcacgtgg atgatatccc cgcacgggac ctcactgttt 1080
 ctctgcttgt tgacacaagt cagttcaagt cccaactcca aaacgatcaa caatgaatcc 1140

caacctccac gccgatacac caccaccccc accgccgaaa ccaggcagtc atgaggccag 1200
 tcgcggcggc acaccacaag tcggctcgcc atcaccaacg gcagcgcagc tcccgcagca 1260
 gggccagtac ggattggacg taacgaacca atacctcaac ccaagcacag tcaatccgac 1320
 cggaatggc ccccggcctc cggaattga agaaggctgg ctacctgagg gtatcaaaga 1380
 aaaatcgtaa agacccccctc cacaaccgct ctctcgaacc tgcccagact tcgaaggttt 1440
 gataggtgac tgattacaat tagaacaatc gacctccaaa caatcctoga aaccccatca 1500
 ctaatctctg ccttttcgc caccatcca tctcaccatt gccatcagga aatgcttcag 1560
 acgttctga aatataacca agacctggca aatcaccttc tcgacctaca atctcaactc 1620
 acaagtctcc gtcctctac cgagacactc ctgctccagc accaatctct tgaagtctca 1680
 tggcggaaga agcagggcga gatggattcc gccctggcac cgtggtcgcc aaaggcattg 1740
 tatcagcggg taagtgcggg tatagcggaa caggaggctg tttgttttgc tgttgaggag 1800
 agcttttttg agggcgagca tcatggtaag gcatcagaga aggaggttgc tgattgggtt 1860
 agacgggtta gggcggaagg ggcaaagtta gctggaagaa gggaggcgaa ggcgaggtgg 1920
 gatgagggga gggttggggg gtggaggtag catccatgct cctcaagtac ggacttggtg 1980
 actgcagtat gaaggtgaaa aggaatttct attcttttat gatgcaacgg acgaaaaatc 2040
 gctggatata aatcacataa cggttatgac gatttttctc cgacatcctt acttcgatat 2100
 gcgacttgtc aatgccggca cacctcatgc cgccaaatgc cgcctccgc tttccaagtc 2160
 aaatccgttc tgcgtcatgg ccgccgtgac aggcatctcg gactcgactc tcagagtcgc 2220
 ccacccatca tctcccat tgcctgggct tctacgccc ttgaagaacg catggtccct 2280
 actcatggct ccacacgacc acccggaacc acgctcaaga ggtggactat acagcctaaa 2340
 cgcgacccaa gcgaacgaca tgcccattac agaccgaaa atgatatcga agccatggtg 2400
 cctataatcg aaccagcgag aagccgatat aaagaatgct acgtgccacg gcacaaacgc 2460
 aaggattatc agatagatgg cggcgcggcg ccttgattac gggtcgcaa gcggttccga 2520
 gggcgcaggt cctgtgtcag cgggtgatgc gcgaggtagg ggaatttgat cgagaatttg 2580
 gagcacagcc aaagtgagaa gtaggttaga ccggcgaatg aaactgtaac ggccctcagc 2640
 gttgcccattg aagaccatgc tcaccaagaa ggaatatgaa catacgagac gagtgccac 2700
 taggaaagct cacaaccca cccctcttca acaaatccgc cttattccgg cagatatccc 2760

agctaacc aa tgtgggagcc ccctgcagtc tctgcccag tccacctacc gcataagtag 2820
 caatattctc gagatccgga tcacaccgcg caagcatgtc cggacgcggc ttgccataaa 2880
 gatctttcag cccctccgta gccataaacg cagcggcaca agccagccca agtccaagcc 2940
 atccggcatt ccattcccag atcttgcgcc gcagtagtag agccctagat gacgagcgcg 3000
 agtctgcccc agatctgtcg attgattgcc ccggcgtaag aagtagacac acagctacga 3060
 ttatcacggc ggggtgctatc agcgagacga ctactagcac gcttgtgctg attgtttcgt 3120
 cctctgtgta tgggtatgag tagctgacgt cggtaaagga gaagggcatg tggtttggct 3180
 cgactttgtg aaaaccatat ccaatgaggg cgatgccgct ggctcatgac gttaatccgt 3240
 tttttctcca aataataact cgcgaaacct ttacatgagg ctatacatc actatgagaa 3300
 tccagtcgac gatgtatgaa aggaagacgc tgatggagaa gctcgcgtga cctcccggca 3360
 aggccggtag agctttaagt cgggggagag gcatgatata ttagcttagt atattattat 3420
 ttctgcaccg tcaccagaaa atatgaagag aagagatccc ccgacttctg aatgtgtcgc 3480
 gaacggaagg ggtagatac gagctccctt tgcataaaca ctggggatag gaaagggctt 3540
 ttaagtaatc ctgattgctt gtggctacaa gccgatctta tcttggcttg ggtcatcctc 3600
 aagaaccaag aaagttaga ccagattgga acaacaaggc cggggctgtg caagattcat 3660
 aagccgactc ttaaacctgt tgctgtttat gccattcatt cactcgggcc ggaatcacia 3720
 tgtttgtgtt tgtccaagta tgactctggt ccacgtataa gcccgattaa gaccgaagca 3780
 tgcgtcagaa tgttttcagt cttgggtgca tacgggtgtc tctttgctcg gtcgaaatca 3840
 acgagcatta gacctgataa cttgtcttat ggagcgctcg tatactcaga gtcctcgctg 3900
 gcttgatgt actcagcact cgttgctata actatctgtc ggtttccaac gtccatcctg 3960
 atcacaggac agcccctctc agagtaatgt aactagttcc gatagaaatt ttttggccgg 4020
 ccgtgatttc gacttctaag actgtatcac tgattcaaca ttgacgggta gaactgggct 4080
 gcgatttagc aaccgaacta tctagtccgg nctgaggatg cttgcttatt gcaacagcca 4140
 gaaagtctag tcccgaccct gcactaatta ttagtgcccc caaatTTTTT tttcccat 4198

<210> 2118
 <211> 1995
 <212> DNA
 <213> *Aspergillus nidulans*

<400>

2118

caaaccaagg tcgcagccgc acgggcatta gcggcctgtt aataccagcc tggcggtcac 60
tcgtccaata tcgtaccgcg ccagctagga cagacctcct aagcaatcct gctcagaagt 120
cgccactcag ttcgttcgct tgatcctgct gcacaagcgc aacgatcacg gtcgcgactt 180
cgtcaggcgt caccacgca tccttcgtat catccactat cttcagtttc tccgggtggt 240
cggtccaaag cggcgctctg atgatgcccg gtgcaacggc cgtaacgcgg atcccgagc 300
gctcgtcgag tttggcgagc gagcgaacga acccattgat cgcattgctt gtggcgacgt 360
agatggggcg tcgcaggaac ggggttttgc ctgcgatact ggagatgtgc acaatcgctt 420
tgcgggcgtg gctgtctgtt ccggacctga ggaagtgcga gattgcgagc tgtgacgtgc 480
ggatcgggtg cgtgaggttg atgtcgatga gcgcgtagcg gtcgccatct ggggggtcgc 540
ggctcacagc cgttcctgga gggcgccaga agttactcca gtgctttaac cggtcgggtca 600
gcctagacgg acaaggttaag gatacgtaga gagaacgcac cggttcataa atcccggcgc 660
cagggcagac aatgtccacc tcgcaaatt cttctccgc aacctcaaac atctgctcga 720
gtgcttcca ctccctcacg tcggttcgct ggaatacagc ccggggaatc ttggccgtat 780
actgatctac caagctctga gcctcaggac gcagggccaa gtcagcgatt aggacattgc 840
agccattctc caagagctgt ttcgcgaaac tcaggttgat tcctgcatac aagcatttct 900
cagtacatct cacgccgta aggatggatc ttggataaac acaccagagc cagcaccagt 960
cacaatagct gtcttgccct gcacggagaa tgacatgttt tgtttctagt ctggtcgcca 1020
gcaaagaagc cctaacagcg tttgtatttg cagtgtcgc aatacttatg acgtttgcgt 1080
ggttgtagtt ctgtcgtgaa acaaacctag gtcctgttaa gaaatggtgc gtctttatat 1140
gttggtggtta ctgtcacacg gaccacggct cagagcctat aatctcccta ctgggcaaca 1200
aaccctggag cactatctgc cgagctaccg aagtcagct agaggcgtgc gtgtcctgac 1260
tcggattcgg cagctgatga gattcgcggt gtaagcatgt aatggagttg aggccttgg 1320
ggaccgggggt gtgggacaat tgaggggtct ggcggcgga gacggagtat agaccgatcc 1380
tatatatcat ctcaagggtc gaaccttgaa catctaagat atctggtctt gtttttagcc 1440
ggtaaatagg tgagaaccgt tccatattct gcaaccgcca ggtctacgca taattgggta 1500
caaactggtt aacctacgct tcgttactaa tcgcatgaat cgcattgata gcatgtatac 1560

ttcggtacat gatgggggac cggacccagt ccgatatcag gactccacct cggaggttcc 1620
 ggatgatgaa tcgcctaacg cctgaatctg ccttttatgc tgctgaatta agtggaatac 1680
 agctgtggtg aactgcctcc tgcacgagaa agcacatctc ggcctggtag cagtctcgac 1740
 ctcagtcgac agcgttcgag gtccctcactc ttaaagcatg agaactactc tctgttctag 1800
 ttaaggcgct atttattcat ctcaactattt ggccaggtat gtcttttagca gaattatttg 1860
 cagtgaaaac tgctgcagt ctatgtaaca ccaacagga ctatgcgcgc tcagtcttat 1920
 taggtatatg atcatgaatc ccagaataag aggaatttga tgagctgaaa acacgccaca 1980
 caagttgaaa cctga 1995

<210> 2119
 <211> 1984
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2119

aagcgccact gatatatatt tttttcgtac cacactccgc cactggattt tcgaagtatt 60
 gcatgatgca tatttagttc tgcaacgag tgaggatgta tgaaccacg agactggcag 120
 caaacgcatt aagtcctcat ggttaatagt atctaagcgc ccttaatggt gtcattgacat 180
 accccccatt agggactcat ttaggccgtc attcattatc aagtgccgtc ggacctccac 240
 caatcctctc cttggggaaa ggtgaactgt gtttgaacag taaataccta ctggctctac 300
 ctaaagagg aaagagactg ttctgactta tatttatttg ccaggtagga ccgtatcctt 360
 gttttcagga ttaatcgagt aatatgctac atgatattgc gagtagagtc cttaaaagac 420
 aaaacttcta gtctgaaaga tcttttattt acagtatata cagagaccaa tagaggaaaa 480
 aagaagaatg gcgaattatc agcctctttc cttccccaaa atcattccct cgacaatctt 540
 cctctcccca ctgccctcga ccatcccatg gaatacccca tcttcaatcc ccatcaataa 600
 tcttggggaa tccatctcga cgacttctcc tctctcaagg acgacaacc tgctgaagtc 660
 cgcaattgtg ctcaatctat gcgcaataac aatcaacgta caaccacc cggcaccaca 720
 aatatcctcc ctcaacaccc gttggatagc ctgatccgat tcaacgtcta tactggctgt 780
 tgcttcatcc atgatcagga tcttcggacg agagaccaag gcgcgtgcga gacagaggag 840
 ttggcgttgg ccttgcgaga gatttttgcc ccagctgct attggagtag acaacgacag 900

ctggagaatg gtcaaagcgg gcgaaaaggg ggcgttagaa gaagttgaat cgtgggtcttc 960
 gtttgatatt ggatgttgcg ttggcgataa ggagaacagg cctactctct ccaacgcggc 1020
 gaggagctcg gtatcgctgt actgcttgaa tgggtccagg acttctcgga ctgtcccggc 1080
 aaacatgatg ggatcctgcg aaatcaaacc cacacgctca cgcagatcct gtagtttgac 1140
 atgctcaata tcaataccat caatatgaat gctcccctca cgaacgtcca agcagcgag 1200
 agcgtcatcg caaagctcga tttccctgct cctgtgcgcc cgacgacccc gacgcgctcg 1260
 ccagcgcgga tgcaaaagtt gaggttgctg aagaccggag cgagatctgg cgcatatgcy 1320
 acagtgagac tagagatttc gacttcgccc ttgctcggcc aggtggcggg gacatcgagc 1380
 ccagactgta gttcctgatc aagctgggta tactcggcaa tgcgctctgc ggcattggag 1440
 ttaatttcga gtgatgcgta ctgagacaga agccaagtga cgttgctgga catgtcgagg 1500
 gcgaagctga gtgcaaagcc ggccagtggc gcgtcgaggg tgcgaacgct gacgaatata 1560
 attgttacag ccgcgacgaa ctgctcggta cttgtgtgtc aacgatgcat ggttccagtg 1620
 ttaaatagca cgctagaagg ggacatacca ctgcgcccac cgagctaagc cagatggccc 1680
 gccaggaggc gaagagtttt ctgtgccata gagcctgaca atacgaatcg atgagatcat 1740
 acatgcgcgt caaatatgcc tgctcccgcc caaaggcacg aacggttggc aggcctgtga 1800
 gtagagagcc gacgagctcg aagatgggag acctagccgt gctctgtagt cttttcgcct 1860
 cgcgcgctgc ggtcacgtag aagtacccaa ctgtccagga agcacctaaa gagagaatac 1920
 ccaggccaac aacaacggga gacgtgacca cggcggcaac aatcacgccg aggacagtta 1980
 tcgc 1984

<210> 2120
 <211> 2645
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2120

aagacagact ggacacccat cgcacatcta agtcacgagt catgacacca gactgcagca 60
 tcgacttgaa gcggatggta agagggaacg ggagcttcac tgcaccaagc accattagca 120
 attcataaac agtagacaga caggcatagc ctgcttataa atgacgaagc ccgaaaaaaaa 180
 agcatttata cagctcataa tcagggtctg cggaatcata atcatcatat ttcccttcat 240

cattcccatc atgccctcca tagcagcggg atctgacatt gggttagcgg gtggctggcc 300
gcgactgttg gggtccttca aaaaggcgcc ggtttgaaag cccgtgacaa ggtagttttt 360
tcgcatctca aaagcctctt tcgacagcac agctggggcg tggttacgca ggttgacggc 420
gcggaacagg gagaggcgct cgcgggattc tgctagggtc gcgggaggct tcggagggga 480
gttcattagg attgtagcat agtgtcggag catgccggtc agaattctatt gggtttggtta 540
ggaaagattg aatatgttta ttagaatggg tcttaccatg acaacggaga taggaatcaa 600
aatccagtaa ctgcgagttt caggtaagtc tcgtctcaca gatccgtgaa tatggactag 660
gtgtactcac aatagagccg gatcccgaag gatcgtttgc tctacacctt gcaatgccat 720
attgatgtga agggagagcc aagggtgtaag ctgtagctgg caatgatcaa gagaagtgtt 780
cgaacatcga atccccacag ggtccgacaa ggcggcgac ctgaatctag tccatactgc 840
cgcttttagcg ccgaaaggga cagctcgccg caactacacg cagcagctct aagcataccc 900
atcaaaaata accctcttgc ttctttctat ttgctactg cctcctacgc gcccgcatca 960
tatcattctt taaccattta ttaattacgc aatgtcttcg gaagctgccc ccaaggtgcc 1020
cgtctactcc ccgaatggta tgctggcagt aactgagtct acagctcaca gcaactctgaa 1080
ccaactaaca tccgcatctg cttaattctc gatacatgta ctaattcctt tttgaaacaa 1140
acacagacct caaatcaaca acagacgacg ccttagtccc ctaccttacc accctcccgc 1200
agccctacac cttaagcaa gaccacttca agacaaatgt tcgtttcatc gtcggttaca 1260
gcgcgctcgc aatcgcagcg ttcacgttct acgcggaccg caagcttggc tgggaagcga 1320
cgacatcgtc atgggttatt gccgcagttg gttcgtactt cattctaaac tcgctgctca 1380
cgtactgggt ctgggccgtc gaggctagcg aggtctttcg ggggaagcgc aagtctgggg 1440
agacggtatg tatcttctca ataattgtcta ttctttgggt tttttcactc aggggaaggg 1500
agcggagcga ctgttggcga cttgcgtagt ttctaatacg gctatgaata gatattctatt 1560
cgctcgctccg tgaagaagca cagcctctc tacagactgc agattcagta taaatcggct 1620
tcgaacagcg ttttagagga gatggagatc gtgtcgccgt ttacagcttg gttctctgct 1680
gacgggacat accatccgga gcctttgcgc atgtggcttg cggatgagat taatgtgcta 1740
cgcctggccg ctcagaacct cagaaacaaa ccgggtggcg tggctagcgt ggtgggagtc 1800
gaggagtctg agcacaacga ggtctaggat gcgaagaagc gaaggtagtc taagtatgga 1860

atgtgccaga tgcaggtatg caactgaatg aagagtcctt tcttaagatc ttccaagcat 1920
 tcatggtcta cctactccat gttgagatac aaccctaact ggcttaccaa accagcatga 1980
 ctgcgcttga gccgttgact tcaccattag cggcccttca cttccattg cgctctatca 2040
 taagattttg agatgataag cagagtctat ataaggcaga caaaaaaaaa agcaagttta 2100
 acgtttgaac aagggaaatc ttatctccat gcgcttgata acatcttttg accgacacca 2160
 ctttctatga agcagcctcc agagtgccag gacgctcggt agcagcagca ggcttaaatgt 2220
 cgtccattct cttgtttctga atgagtctct gttgaaatgt agtcagtttt gagcgcat 2280
 gtaataaagt ctccaggactt accagcaagt tccggagcaa aacgacgata gtcaccttcc 2340
 cgattgaggg cacgaagatg gaggcttttt gcttaacttc aggaccaaag ttctgtttac 2400
 tctgtataa gcaagatgcc agctagtggc cgtgaagaga taaacatacc ttctcgcttg 2460
 aaaaattgat acacacggca cgtctcgc gcaagctagt gtcgaacttg tacttgctcc 2520
 caggacacc agagataacg gtatcacaca gcgggacaat atccttcagc tcctttccct 2580
 ctacatctc aacctcatgt ctgcccactt cagaccgctc cccgatagaa cttctggata 2640
 cagtg 2645

<210> 2121
 <211> 2655
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2121

aaaaagccga tgtttgattt tcgtaaccac agcatacgcg ataggagtgg gcctgtcacc 60
 agctttgtcg tatacggtaa gctcgacctc gtttgccttg tctatgtcga gattgaatgt 120
 ctcatcctgc cacctgtcgg acctggttgc ctttgttctg gcctttatag tatcctcgac 180
 tttcacgata aaaaacgtct cgggacccct ggaaaatctt gagctagtcg catgatcaac 240
 gtccgaacg gcttgaattc gcattgtcag aagaccggtt agcggcttgc gcagattcgg 300
 ggcgcttaaa ctttcatctg aaatcaacgt cagctagggg gagaataagt cacacagaga 360
 gcaatgggtc cgcaccatca ggagtatccg tcgactcaat atcaacatgg agatcttcgt 420
 atcgcttgag agcctgcttt agaagctgaa tcttctgggt actctcaatt cgtcggccct 480
 cggcatctgt gcgactcttt ctatgcctt cgtcctggta caatcggacc atcttctcaa 540

tgcttgcttt gtattgtttc tcgacaactca gcttgaactc aagctgggat aacataagct 600
 ggatttttgg tccaaggat ggggtatcat atttaatcag gtctagagaa gatacgtatc 660
 agtataagaa tacatttgaa atagtgcacc gaaagtgcc aggtgtccaa tgcaatgaac 720
 ataccgagtt tagtataatt cggacggggc ttgggcacag gcgcgaaagg tcgggggatcc 780
 ttgaaaggag caccgcacgg catagatccg gccccaggct gcgggtgctg cgtaggatca 840
 ccatacccca aaggatcttt cggcggaggg gcagggccat cttcagggtt cgggtggcagc 900
 cgtttatcgg tgggtgaacc ggattctcgc tccatctgcc gcagctgcag ctctttcatc 960
 ttctcttcca gataagcgat gttcttgagg ccatctcgaa tattcgcac gactcgttgt 1020
 tgcaccagag gattatcggg tgactgtcgc atattcgacg cagcggcgat aagggtttc 1080
 tcccgtcga tcttgaggta gaccgaggcg atgagctcgt ccccgccat ggtgtaagag 1140
 gcctgacctt ggggggtcgt ggtcggggaa cgaactcaag agccggggca ggaaagcgac 1200
 cggttgaaag agggcagaga agaagagacc ctaagagaat acgtaaagaa ggagaggcct 1260
 cgtaaatcaa gaggacggag tagatgaggt cagtagggta ggtcgggtggc cggcagattg 1320
 gaggggggga ttgggggtga gtttgggcga gcgagaggcg gaagtacaga cagatagtgt 1380
 cgcggggttt tgttgacaat aatgacagcc tcaaacagag cacaaggcga ccaaacagtc 1440
 ctgcaacctt caataatcct cagcagattt tcagatcctt gacagatgtg agacaatctg 1500
 tctgtcgatg acgaaatgaa gtcgttttct caatttcctg tggccagatc gatgattgat 1560
 ttatccacag ttcagcagaa tttattgtaa ggggctgtgc tgggcgttcc gtgacaggca 1620
 attgtcctga tactccgttt aagtgtgaat attgttaggc tgccagggtgt gtgccgaaga 1680
 ggtctccaga cttcacaagg tgtgccagtc aaagaaattg tgtcagactg ggccacctca 1740
 agactttctc aacgcagaat ccttggggcg tgggctagct acaaaatatg gcctcacgcg 1800
 tccttgatga aaggaatgaa agactccgga attcaactcg ccgatgagcg gaccagccgt 1860
 cgcaacaccc agcttgaaac ggaaacaatg tgcagaatcg agattcttgc ctgagcttcc 1920
 agccggccag tattcgtcac cacgaacct atctgttcca ttaacaggga tctccggagc 1980
 ctacttccaa ccaagacttg tctgccagaa agaaccctc ttgaagccat taggctttga 2040
 acatccctga ctgtaggctt tcaaggcaga aagcagcatg tggttgagct acaagaatcc 2100
 ataattctat cgatcgtcct tgatcgattc cacggctcac ggggtgcagtc tcagcatcac 2160

acccccttac tgtatacagg cacttggaat ctgtaaatgc atccaagggg catgcgcctt 2220
 gtttctggaa catcgagtct tctggattga tccacggaga tcaccgctg tgcggcctta 2280
 cccggccact gtcgcagcgg agttcagatt ccagcagccc tacggtttac ctctttaagt 2340
 cactggattg cgtggcagat cacggcgtag actggagcac atggatgacc aggaatagga 2400
 ccctcgact agatccggtt tagcgccac gtgataacaa aatatctcta gatagcgggg 2460
 aatcttgag gttcttctag ttctcaatct gactgcaaa ttgcaaatct actccattgc 2520
 ccgagaatca aacttcagtt tctccgaaca aactgaacg cattgcaatg cctccccga 2580
 acgtaagggtt cttgcgacac gcgaggaaac catgtttccg ccgacgaact agcacaaggg 2640
 caagaaattg cgcga 2655

<210> 2122
 <211> 979
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2122

ccaccaaga ctacgatacc agcgacgatg aagctaagtc ccggttctct tgaaaacat 60
 gaccttgta aacgcgcatt cgccggcgat gaggtcgttc aagagttcga gcaggagaaa 120
 cttgacacta tcgaggacga gggcgacaag gtcacgacg agacactccc tggctggggc 180
 agctggactg gagacggcat tagcaggaag gaaaggaagc ggcagaagcg cgttttgaca 240
 aaggttgagg gagtgaagcc cgaaaatcgg aaggatgcga aactttctcg tgttatcatc 300
 aacgaaaagc gtattaagaa ggtaaaggct tttatcgatt tcgcacccat cgacgtgaat 360
 actaatatct ggcttcctgc agaacaacaa gtaccttgcg acgcaactgc ctcaccggtt 420
 cgagtcgaag cagcagtacg agaggtcgct tcgtgtcccg attggtcccg agtggcttac 480
 aaaggagact ttccagtctt ctaccaagcc ccgtgttatg atcaaacagg gcgtcatcaa 540
 gccgatggag aagccgatgg tttagatact ggccgggcct tgaccttgaa gttcagaaca 600
 ctagtcttga ccgcgagta tatagggtta gacaatatat acctggatac ccattcaacc 660
 tgccatcaat gcagcttaat gattagtttt gaaaagcatt gtgtttatct tttagtgatt 720
 tgcgtcgtg ttttctggtc tgttctaacc tggaacagtt cgaaccctaa atcgaaccct 780
 ctctcaccaa catctggcag taacctatcc aagtttattg tatttcgtga ccctaagcc 840

aatccaaggc catcagttac gtgataacat ctgcaaaagc tgagaaaagc tcatctgtgg 900
 ctgcaataaa gccatagtta gcttcaatcg ctcatcttac ctaagccatt gcgcttgagc 960
 attcctactc ttcactttc 979

<210> 2123
 <211> 1748
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2123

taccgatggt gacctgtact ctgacctcga gtcaagcgcc caagttctcg cctgccgttg 60
 cgtgtatgag caccgacacgt aagactttct tacatactct cccgtctttg acggttcagt 120
 tgaactaaca gcttggttga gcattaacgg tggcggatac ggccagaaca ttggctacgg 180
 tacctctgct gatgaagttg ctgtcatgat ctccaacttg atgtataacg atgaaatggg 240
 ttacttcgag aacctctacg gacaagccac cccagacatg accctgttcg agaaatgggg 300
 ccacttctct cagatcgtct ggaaggggaa caccgaggtc ggatgcgcca ctgtcgactg 360
 ccctagcctt ggcaacgtcg attccgcctc gtctgtcccc ttcactgttt gcaactacag 420
 ccctgcaggt aagtcgacca accgttcttg gtctctcact cgatctgaca tgtacgctta 480
 ggaaactacg acggtgaata cgccgacaat gtccctgaagc ccctcggtta ccccggtgtg 540
 tctgcgtcat aaatctggag ctatatgcac tcacttttga cggggactg cttgtgcctc 600
 gctatatggc agtagactag atggcactat cgcacttagg tttagtatt agtcggtacc 660
 gcttgagcgg actcgacttt tcgtctgtag ctgggtgctc ttgcatacct atcgctgtga 720
 gtactgaatt cgatatatga caattgtgag attcgaatat tctcttttga acagtcattc 780
 caactttcct tctcgtggct gtggcttctc ggtggaaacc gcatattgct tttgcgcttg 840
 tgtcaagtct cgtgcttggt agactogaag ctacgcttgt ttatcttctc ttctattgtg 900
 aatattctat catcttcgag cttgtcacct gacaggaatc cgatattatt tcgtcttctc 960
 tccacgttgc tgctcccttg ctttgtgtga atggcgctg gatagcgtgt ttctgaccaa 1020
 aagatatgat gaacgttcac ataacaaaac ctttggtagt agactgttta aaaaatgaat 1080
 cctgtggggc ggcatgttac gtttaccacg agttgggctg caaacggcga gtgtcggtga 1140
 tgtcattctt ccccccacag tgtgctccca cataccaca aaacacgtga ccccgacaa 1200

tctccccgca tccaatccaa acgattcacg ggcgactcga agcctccctt cgtccgagaa 1260
agcttcgtcc catcgagtgt ccatggtcca acgcggtacg gaagatcctg catatggccc 1320
aattgctagt ttgccattct ttgaaaagag tgacgcgag tggacgacat tggtttcttg 1380
gacgtctaag caaattctaa gttgccgcca tttctgctga ccagacatca tttctacttg 1440
actgattctt tcaattgcag tcttgcacat attacagtgt actctgccac agaacttaag 1500
cctctagtgc cgtttctccg cgcatgatac ctacagagta gaagtctccg cgtgacatat 1560
tgccaccacc cgctctacga tcaactactct catatctccg cgctcaagg caaatcaa 1620
tatataatct tcagcccgat ctaatcttcg aactcatcca caatctcacc tttgggattc 1680
gatattcttc tgcttatacc ccataccgag cgaactccga acctagctct ctgcttggc 1740
actcggct 1748

<210> 2124
<211> 3025
<212> DNA
<213> *Aspergillus nidulans*

<400> 2124

gagcgagtga tcttcaatct attttcttct tggagactag catactgtat atcttctata 60
cccttcatat actgtggata ccagcttca tctctactcg caatgatctt caaatacgtc 120
gtacggttat ctgaccagta accactgttt ctgtcacatc gtcgtcgcgg atggcaggcc 180
tacactaacg aactggagta agcaatatac ctaataatgg ccagcaactc caggttattg 240
tttcataccg ataaggacat ttaatcttac tgagcaccta ttatagggcc ctgatgggtg 300
ctcttgaact ctgcgtagag tgcatttatt taggatacat ctgaataccc tgagttcagg 360
ccgctatctc aggttgagtt tttttacctt gtgcatgtgc cacacctggc aagcccgtc 420
ccgggtagct aacgtaaggt caccaaaaag ttacctgccg aaaatattag ggaccgatgt 480
tgtaaccgaa ctatgttact ggagtaagcg tggaatttga caagaagggg ctgaagttat 540
atgcgtcaat ggtggcctgg agtattgtcc gtagtgatag aaaaggaacg tgtctcagag 600
ctggattggg tagggaagaa tacctgttct tggcatagtc cagcggcaga acgtatcttg 660
cagctatttg cgaagtagct gttggtgttg gacttcggca tggatcatgag aagtccaact 720
acggtcgcta tggacgagtc gctgcaccga atgcacaaga caaacttgcc tttctgccc 780

gctgacatct tctggacata gagccagggtt acgctctctg cgcctccttc ttggagaata 840
 cacctccagc cgacagccaa taatgcacat agcttaggggt actgacctcg agcagcttcc 900
 gcgagatgcc accatcgcg aaacgcactt gatgcgtgcg ccacagccaa aactctcttt 960
 ggtttggcag gatcttgctg tcgccctcct gttaagcaat actagaagtg tctttcattg 1020
 atgtcggctt catatcatcc cgccggagtc atgataagga ctaaccaaac ggttcctgct 1080
 gagactgata catcggcctg actgagtata tgtacgtggt tttgtgagct gcgtgagggt 1140
 accgattggg tttgcaccgc acatagcaat atgacctttg aagagggcat atatgcctgg 1200
 tacggtgagt ccggcctccg caaaagtatt atggtgcctt cgagcttctg aaagtgtgct 1260
 aggaagtgtt cccacgacgt tggcaggctc tcagactacg aatgcggaac gactgttttc 1320
 atcctgagca tcggcaaata gagccgctgc aatgcgcccg tgaacattcg catcatagat 1380
 caaccccgga tagtcccaca acgtcccatc caaagccgc gcacccgtcc attcctgaaa 1440
 tgtcgcgtaa tcctctgcat caaatggccc tgtttttggc tcattgatat acaccagctc 1500
 cggctgaaac tgaaggactg atgtggaccg agcggcagtt tgcattgtaa ccatcagttt 1560
 tcccagaaag ctctgctccc agtttctcctg gtcaacatgc tgggtaacca tcctgctctc 1620
 ccaaagtcc cacggatgtg taatttctag aggaccatcg ccttgaagga tgagcacacg 1680
 ttgcagatgg cttaaagtct ttgcaaagtc tagtgactgt actgctcgat cggatatacag 1740
 agactccatc ttggaaggac aagtgaaagc cagatgcgtg agatttgagc tctgccgcag 1800
 cgtctccac caacaagtgg tcaaaggctg ggttgacaaa ggccagacga cggacccgcg 1860
 accacataag cgtcactcct aacgaccagg cagagatgtc caagcgggta agccagggtg 1920
 gcctgtaagg tgcagtgcg agaccatctc gcaaatagca gaactcctct acggcctcaa 1980
 ggcgcaaat cgcgccgtac acgacattct gagccctacg attttcggta tcgttgaaaa 2040
 tcagatgccg cagtggcaga tcaataatga ggcagcggac gttggtgctg aagagggata 2100
 aaaggctgtc gatttgctcg tctgttgagt ttaggctgat ggttactggt gaggggaagg 2160
 cgaggaatag ggacctcgcc cgcgttcctt tgtctacacc cgcagggccg tagcggccga 2220
 acctgtacag ttggctctgg ttgaggacat tttcaattcg cttgccagag ttcaggtaga 2280
 gacagtgagt gaagaggagc tcgcgggcca gaggataggt tagcttgacg gtgaggctga 2340
 ggctgaggag agtgccgggtg acaatgtggc caggaggcag gatgcgtgac ttgaacggaa 2400

tgagggcctc tatgacaagc aggatcaatt cgggagggag ttgcattatg cctctgatcg 2460
 tgggtaggaa tattgacgaa aggttaggag ttcatacaga gctgacacac agatggcgct 2520
 agccctgaat ttgactatca catgaccagg ctagggcact gagaggaaat taccctagta 2580
 tgagatcatt cctaaatgta tataggggga ttgatagata catacccata tggaaagtca 2640
 gttcagcagg atacttgcta cactgtcttt tcaccgactg aattgtgccg ccattcggag 2700
 ttttaagctag cccaatgtcc ttctggctaa agcctgatca accaacggac ctgatgcgca 2760
 gtgtcttatg ctgagcatat ccgtaatat tcttctactg aacggcttat tgaagacaag 2820
 atcgggtaag ctgaaccctt acataggctc cttcagcaaa attttttgga attcaagggg 2880
 gagggcactg gctttatgcc aacttcgatc acggcctcgg gcaaccocct caatcccccg 2940
 gttggatagg gcctgtgaac caactccgcg gttttcaaga ggtgtcttaa cagtggtttc 3000
 ccctaaccat gtgtttcccc cccct 3025

<210> 2125
 <211> 1664
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2125

gcgtccatca acaatttttg attcggcggt acgaatgcac atcttatcgt cgagagtcaa 60
 gcggctcagc cgttgccctg gcaagcagat ggatatggcg catcagctac taacctcgac 120
 tctcagatct tcgtcttcag tgcgcgcgat aagcaggcct gtgttaatat ggttaacaac 180
 ctgaagaaat atctcagaca aaatgccgcg acggatagcc ccgattttct tctccagaga 240
 gttgcataca cgctgggcca gcgcgtacc cggttcccggt gggtaaccgc tcgtcctgtg 300
 cctgttcaaa atggctttcg cgaacgtatt caagccctcg aggtcaacat gccagttccg 360
 cgccgtacca ccgggatccc acgcattggg atgggttttta ccggccaggg agcccagtgg 420
 tatgcaatgg gccgtgaact gattgcggcc tatccggctt ttaaagcctc actcaaggaa 480
 accgatcggc atctcgcagc attaggagcg aggtgggtctg ttatagagga gctgaatcag 540
 gacataccgg cgtcgcgcgt tcacgacgtc gaatatagta ctccattatg tgtggccgtg 600
 cagatttccc tagtccgact tctgcgatca tggggcgctca agccgggtggc tgtcactagc 660
 cattccagtg gagagatagc tgctgcgtac gcagttggcg ccctcggctg tcaagacgct 720

atggctgtcg cctatcaccg tgctttgctc gcaacaagaa gtagcctagg ctcgaaacag 780
 gaaactatgc ttgtggtagg catgagcctt gaagaaacag aaacttatct tgcacgaatc 840
 gacgctttga tttgtattgc cacagtggct tgcgtgaacg gcccgtaag tatcaccgtc 900
 tcaggcgatc aagacgctgt aaatgccctc gaagcgctgg caagaaacga cggcatcttc 960
 acccatcgtc tgaagataca tactgctttc cactcccatc acatgaatcc gattgcagat 1020
 ctgtatcgca gcgctttaca aggagctcta tcaccaaatac acgataaagt cgagagtgc 1080
 atcacattct cttctcctgt cactggacgc cgtatcacca acctctcgca gctgtctgag 1140
 cccgaccact gggttgacag cttgctcaaa ccggtccagt ttgttgatgc attcaccgac 1200
 atggttcttg gcgcttctgg tgcattctagc gccaatgtcg acttgattct cgaagttgg 1260
 cctcactactg ctttgggagc gccattaag cagatccttg cagaaccaa atttgccggg 1320
 ttagatatct cttgtctagg ctctctggtc cgagaggta gtgcagtcag gagcatgcac 1380
 tcgctggctg ctgacctagt tgcagaaggg cttcctctgg atctggacgc agttaatttc 1440
 cctcatggac gggccccag cgtacgagct ctttcagacc tccctcata tccctggaat 1500
 catcaaagc gccactggta cgaatcaagg ttcaacaagg gcctccgca acggcacagc 1560
 caccacatga cttctaggc agccttgat tggaaccga tccgaacagt cctacctggc 1620
 gccacatcct gaagtcaca ggacgccct gtggttcgcg aaca 1664

<210> 2126
 <211> 1211
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2126

cattcggtag actgcatgc cttggcaatt gttgaggaca gaaatacgt tcaaacctta 60
 tctggatagt tgaataatgg tctcttccca aacaacacct cgcgctatgt cccgtattta 120
 gtgactgtac tcttgcgacc ttttgacaca cttactagca tctcgcatgt aatgaatctc 180
 gtcgaagaca acccaggcga cttcgcgcat gatctcggag ccgcgataca acatagaccg 240
 cagaatctcg gtgcgcataa ccaagcaagt agcagtaggg ttgattgtca catcaccgt 300
 cattagacca acgtcgccaa attccgctgc aaactccgg tatttctgat tactcagggc 360
 tttgatagga cttgtataga tgaccctctg attgttcttc aaactctgag caatagcata 420

ttccgcgacc accgtctttc cgcactggt atgagccgat accagcacac tttctcctct 480
 ctgaatcgac gagacagcaa cctgctggaa tggatcgagc gtaaacggcc atactctcgc 540
 ggggttctcc ggaggtttgt gttgagagat tggaacgtaa ggatacttcg gcggaatggc 600
 gacttgatgc cggacctggt gggacaagac cactgggcct gcttctttct cagcttgaag 660
 ccctgcagat cctgcaatct cgcgctcttg cgcagtctcg aacaagtctg cgacaacggg 720
 ttccggctct tcttctaate gcaatcgctt tgtctctggc tgattgttgt tatccgagcc 780
 tgaagacttc tcttccttgt tttcttggtc cgcgacatcg ggagcgatat tctccttggg 840
 ttttgcattt tccccgtttt ccttcacatc gccgtttatc tggcgcttct tgcctcttctc 900
 tttcttcggt cgtctggggt cagagagctg ggccgcttgg ggcttatcct cgaagacatc 960
 gaaaagctca tccattgttg agcaggatct agaaccacag ggcgcaaata actcgagcag 1020
 ccgcggtggt cgggtttctg ctatgtttct tcccaccgac tggagcgacc aagaaatttc 1080
 atgtcccgtt cggggaaggt gccgcaatcg aacgaccgcc ggagaaactg atcggagaaa 1140
 ctatcctctt gtaatagctg gttatcacgt gactaatttg gctccatctt catcctacat 1200
 ttcccgcatg g 1211

<210> 2127
 <211> 2121
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2127

aacaactatg ctaacactat caataaaggc aggggagcat tgctcttata cgttggtggc 60
 ggcaagttgt ccgagggtat caacttctca gacaaattag ggagaggtgt cttaatcgtc 120
 ggtctcccggt ttcccaatat acgtagcccg gtttggcaag ccaaaatcaa atacattgag 180
 caaaaggctt accgaaacgt cggatctggc tccgaagaaa gtcggcgatt gtctgcaaaa 240
 gccgccggga gagattttta cgagaatgct tgtatgcggg ctgtgaacca atgtattggg 300
 cgagctatta ggcaccgcaa cgactatgcy gccatcgctc ttattgacaa gcgatatggg 360
 aaaactagca tcgaagccaa gctgcccgga tggatcaaac aaagcctagt gaaagactcc 420
 gctcttttgc cagcagcgac aacgttagat gggcttgctt gtttcttccg cagcaaaaac 480
 cactgcgggt agaatcatca tgagagggaa aagtggaaaa ctttacacgg gtatctacct 540

tggctctata attatccatc tgttccacat cacatagtct agaactctaga tcgacgttac 600
 gaaaatggct atctaataac acgtgataat gccgagcatt ttcagggcta actcgcttgc 660
 ttgcccttag cgcacactct agccggggaa agcccttgaa ttcacctccg agccagatga 720
 aactccgac cgcaccccta tcgccaaccg ccaacacttg tcgaacacag caccgtcgac 780
 aagatgcta cccgtctctc taagacaagg aagcagtga tcgccagctc cctattttta 840
 ttttgcccc tttcgaattg gtccgacgat gcggcgagaa gtggaaatcg atgaaatcg 900
 cgacaagtct ccgttggaat cacgaacatt accgccagaa tgagcacagg gactgacata 960
 tatcgttttt ttcctagccg cggatcatga tccgccggtt acggtcgat cggaagcac 1020
 cgtaagcacc ccggtggctg tggatggcc ggtggtcagc accaccatcg caccaacctc 1080
 gacaagtacc accctgggta cttcggtga gtcggtatga ggtacttcca caagaccag 1140
 caacagttct ggaagccac aatcaacgtc gacaaggta gttctggcag cacatgaaat 1200
 ggagtatcg tagtcgcga tggaaattgc agaacacttc gacggtgaat ctttacgagg 1260
 ttctatcggt ggatgggttc aggcattgtc caaaagcggc tccgaaccgc gtcacttgg 1320
 gttcaaagct gatggccta ctttattagc tgtggtcctt cggtcccgcc gagcagcgtg 1380
 atgcctacat tagcggccag aagaccgaca ctgccccgt cattgacctt ctctccctcg 1440
 gttactccaa ggttctcggc aagggccgtc ttcctgaagt ccccatcggt gttcgcgccc 1500
 ggtacgtcag ccgtgatgct gagcagaaga tcaaggaggc tgggtggtgt gtcgagctag 1560
 ttgcatagat tatcatgaag ggaaaacgtc tttttgtctt ggaggcgcaa cgaaaagct 1620
 aaagccggtg ctgcgctgat aatgggcccg cgaagataga cgagtgtcat attctaaggc 1680
 ctcgactatg ggagcccgcg atcggtcaga cggatccgtg tatctacaaa acaagggttc 1740
 aatttttttt ctctttgtgt ttgtgatgat cataacctcc ggacgctctt aacgatcaca 1800
 tttaccaata aaataccttg agagaacttc tactagtttc tcacgcagcc actcaacgcc 1860
 ctccaactgg gtgcttggct atcaaaaaaa aatgctagca atcaagttaa agatcgtttc 1920
 cgccaacaaa catcttttcg tactattcca tatctggaat tgataatccc aaagtagagg 1980
 tacactggag tctcttgagt tctggaata acgtactgtg ggtgcggaag gctgatgggg 2040
 taacttcac ctccgagat gcgtcgtagg atccggccaa cctccactca ctactaccga 2100
 gagcaggtgc aagtacatat g 2121

<210> 2128
 <211> 1646
 <212> DNA
 <213> Aspergillus nidulans

<400> 2128

```

cttcttacga ggcggtgcag ccctatcttc gtctccctcg tcgaattttc cgctcgcgaa   60
gtcgtttctca ttttcaacgt aaaagtcaaa tgtcgcttca tccataaacg caacaactct  120
gccgattgag ccggttcacga gagtatcctc catatttttg atgagcatga cttgcgaacc  180
cttcttcagg tggatcgttt gaggtgccat gcagtttgag agtaactttt cacgaaattg  240
aatgtcttga atagtccccg aatcgaccgc attaaaagtc atcgtttcac ccgaaagacg  300
tgccatcctt gcagaattgg cattgtctac ttcggcgcgc gtgggaaatc tgtacgaaat  360
gttagtctag aaaggcggat attagagggc ccgtacagtt cagtagcctc aagagcgctg  420
tgaaagtcca atggacgaga aagctcctta aaagcctgta tcgtccgagg actaagtttc  480
ccaagtcgca tctcattcag catgtcggca aactcgggat cacgctgacg gaaaacgtgt  540
gtcaaaagga tagtgtgttg tattgaggta ttccagctcg ctgcagcaaa tgaaaacttg  600
gcttctcgat tatgaccctc tggaactggc ggtaattgaa agaagtctcc cgtaacgacg  660
agctgaatac caccaaacgg ccggccattg tttcttatta gccgagcaat ctcttcgagc  720
ttatcgaaca aatccccgtc taccatagaa acctcatcaa tgaccaggac tttcgtgcgc  780
aaccagcggc ttcttgccct ttggttcttc ttaatctgcy gatggtcaga gacatgaaat  840
caatgaatcc aatagatccg acctttttga ccagctcagg tacaggttct ttacctaacg  900
caatgcccgc gaaactatgt aaggtgacac cttcaatatt acatgcagca aggccagtag  960
acgctgtgac tgcgatgcgg tccggttctt tctgtactt atcccgtaat ttcttgatga 1020
tttctctcat gaggactgat ttaccagttc ctgctgaacc tgtaaaaaat atactctgcc 1080
ctttctcaac aactgctttc aagacatgct tctgctcatc actgagaaat ataggagcca 1140
cttgggcacg gggcatatgg tgtttggtgc ttgattgtgt tttctgggct tgcgctttct 1200
tattctgacg gcgaagtcc ttctgctctt cttgattgc gctggctgtt ttattccacg 1260
gagccgttgc agctggccgc gcgggtgtct ctggttttgc ctcatcatct atcgtaatga 1320
tattattctc ttgcttccgc cagggaacgg ttcgaggcgc ggcgggcttt tgaaagtggg 1380

```

aggggggcga ggaagaccag ggcagtgcgc tgctcgacgg cccgggattg tcatcggggc 1440
 gaacaggcgg aagatcagga tacttgatgt ctgattcgta attagtcttc gaaactgtca 1500
 cggccgattg cgagtccgcc ttgtgggata atgttgagtt ggatttcgcg gcgtgaaacg 1560
 attcttcgcg gaaactgtct ttctcgattc tcgcgggagg gatgtatgga tctggtgatt 1620
 caaagtccaa gtcacatca tcgtcg 1646

<210> 2129
 <211> 2848
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2129

tagatgtgtg aacgaacatc acgatgtttc gtttgagttg tccgacttga tagctctgcc 60
 attaagaagc atcgggaccc agaaagcttt cgaaaggagt tggagaactt cttgtccaat 120
 ccttggttca ctgcaaatgg aggacttcca agctgccggc aaaaaggttg ctgcgtatgc 180
 tcatcttctg gcgttggtgg tccaggacaa ggagatgtac aacgctacac tagacgagct 240
 aaaggagtgt ttcacaacgt tccttcagtt catcgcggtta ccctcggaga agactcctga 300
 tgaatcattt ccctgggtag gacatgtggt gcttggtctc gagaaactac tctctgatga 360
 tgctcaacca ccccaaata actgggcctt acctgataac tcggatccca gctcgataga 420
 cgatgggccc gccagttgc aggagcctct catatccaac gaggagaaaa tgcaactggt 480
 tgaagttctc gtcgaagtgc ttctagaat tggaaaggac gacactctgg ctctctcagt 540
 gtgtcggatc ctggtcatcc tcaccagaat tcgcagtatt gccgttcgac tcggtgagaa 600
 acgtaatttg caacgattat ttgtcatggt caagcagctt tcgagctcca caaatgataa 660
 gcttcaaggc gctttcatgc ttatcttgag gcatattatt gaagacgaag ataccatccg 720
 gcagatcatg aggagtgaat tcgttgccaa cttcgaatca aaatctcatt cacggccaat 780
 cgacactacg gggatatgtca ggcaaatgta tcatttggtg ctcagatcgc cagaaatttt 840
 tgtcgaagtc tccaacgaaa agctcaaact cttgcgggtac gacagccgac aacgtcctca 900
 gcacctcacg ttgaagtctg agaagaagac tgaagcgggc gcgaaacca gcggttctgc 960
 cgagcagaag cctgacaatg caaaaactga caaagagaag ggaaaggccg ctgagttgaa 1020
 aactcctgtc gtggagaagc cagatggggt catccactat cttctttccg aactcctgtc 1080

ttacaaggat gttgatgata aggaaccatc aggggacaat ctagaaacct ctgccgttga 1140
 gcaatcggag actccgactc agactgatgt tgagatgtca actgacgaac ctgctccttc 1200
 cgtttcgagc accgagctcc agggctcgcg gaatcccaag aagtcagaga agcccgcatt 1260
 ccaagcagat gatcatccca tctacattta tcgatgcttc ttgcttcaat gcttgacgga 1320
 actgctttcg tcctacaacc aaaccaaggt tgaattcatc aactttcttc gcaaggcgga 1380
 tcctttggtgta accacgccct ccaagcctcg ctccgggatt ctgaactatc ttctcaatgc 1440
 cctcgtgcct gttggcacga tggagcacga tgaatccgtt gcctttaaaa aacgcagtaa 1500
 cacctctgct tggacaatgc gtgtcctggt tgcattgtgc accaagacag gtgaaatcgg 1560
 tggtcacgga aggcgccgca atgatcagaa ttctaacgaa gaagacgaac ctgagctagc 1620
 cttcgtgcga aggttcgttc tggaacatgc tctaaaagcg tacaaggaag caaatgcttc 1680
 caatgaagca ctagatgcaa agtattctcg gttgatgtca cttgcggacc tatttgacaa 1740
 gatgctcagc ggctatgctt ttgtctcagg agacactgct ttcccatcct ccaccaggca 1800
 aatcgctaaa actatgttcg agaagcattt catttctgct ctcactgcat ctgttgccga 1860
 aattgacctg aacttcccat cctctaagcg gggttatcaag tacatcttac gccattgaa 1920
 caagcttacc cagactgctg tgctcttaag cgagacttct gacatttcga ccattggggg 1980
 atcagaggat gacgaaatct catccgctac ctctgtgtct gacatggaag atgagcgtga 2040
 agaaaccctt gacctcttcc gccactctac cctgggtatg ttggaacctc gccacgaaga 2100
 ggaaacaagt tcggaggagt cagaagaaga agacgatgaa atgtatgatg atgaataccc 2160
 agacgaaatg gactacgaag aagagatggc ggaagacgac ggggaagtga tcagcgatga 2220
 agaagatgag attgaaggcg ttggccctat tgaaggcctt cctggcgata acggaatgga 2280
 cattgaggtt gttatcgatg atgaggatga cgatgaagac gacgaagatg atgaagacga 2340
 agacgacgac gaagacgagg atgacgatca ctccgaaatg gacgacgatg aaatcctcgc 2400
 gggcgagatc actggtgaca gagataatga aagccttgat gaggggtgatg aggacgaatg 2460
 ggaaagcgaa gagatgtcag aagacgatga tgaagccgac attatgaacc agctcgagga 2520
 cgaactagcg gatatcagac acacggatca gcggcatgac gggggacgcc ttgaagacat 2580
 tttccgtgcg ttgaatgagg ccgctggtgg cggtgaagac ctccaggcgg atagcttggg 2640
 agatttgcac gatgacattg ccgatgacga gctgaacgaa gatgatgggtt cgtatatcct 2700

cttcgccgca gtttactcca ctgctaacat acgtaacaga agacgaagaa attgatgagc 2760
tagaggaaga gcttgatgaa gcagatgaag accaagggtc ttaccatgga tttgacgacg 2820
atgaagactc attgatcatt ggggatgg 2848

<210> 2130
<211> 2216
<212> DNA
<213> *Aspergillus nidulans*

<400> 2130

atcttgctgc ttcttaccat gctcttgatga tttaacaccg tcctatacgc agattagttt 60
ttctccacac aactgtcttg cgactcatgt cttaccggca ccccgctcgg ctcaaaactc 120
tccaccaacc gactctcata gatgagattt ggattccac ggctctggct aagcttcac 180
tgcccaaac cagttttatc cttgtattgg tctaccgtct tccgggcaa accaccacca 240
ttcgtcgaca ccccgatg cttctcttc tcgtccacac tccgtcgta atactcaaga 300
tacggcgggt tccggggtt gatcacatta tccgcggtc aaacggagcc aggagtgatc 360
agtttcaatt cctcgagag cttcagggtc gtcgtgatg caggcttata gtggtctaga 420
aacagcaggc cgatatgct tagtgcggtt gattcgtaga gacgcgcgat cgatacatcg 480
cttgggtcaa taaccacttt caccgacatc gataaccctg ccaggtcgac gagggccata 540
atcaccgccg cgaattcggg gttcatttct aaactgtaat accgacttcc accggcggcg 600
cgaactgcgg cccgaaaag gatgctggag taaccgacat agccgcctag ttcaacctga 660
atgcgaccat ttattagctc tcttgatcta gggatcgata ccgcggtacta accgggacat 720
accattgtct ttggtttcac ctccgcaatc aagtcacaca cgatcctccc cttatcctca 780
ccgacattca tcaggactt tcttgctcga gcatactgt cgatggcgtc aaggacactc 840
tccggcgatc ctgcaatgct gtccagtttg ggggtgcgagt aaacaaaatg aaggagctcg 900
atttcacggc catcggtgaa aaatgtggtt ctttcttggt ctgcataggc cttagagggg 960
tcaaattgcc ccctttttac tgtttgagat actgcttctg gcacgtgca aatattggtg 1020
ctgtagggtt gtaggggata tcgaagccct aatgttctgg caacaggaga gacccaagc 1080
gtcccaacag tgatatgaag cgataagatc aggaactcag ggggagatct gcaatggtca 1140
ggtgctgctt gcgtaatgct gaaaatgttc ttgctgatct tgactgctac acttggttat 1200

agctgcaacc ggatgtcaaa tggtagagac cacttgctgt tcctcaccaa tcacaccagc 1260
 cacacagaat aaaatgcaat gatgagacag gctctaacct tgcgggaagt ctccatgtac 1320
 cactgccgtc atgtccggct tcgatggcca ttgggagttg ccggtgtata attccgggtc 1380
 gggagggccg gaaccaacca cgtaccaaga tcgaaagtgc gcttaaataa ttgagggaaa 1440
 taagtcgttg acgttccttg agacctcta tgaatgctac tgttcacatg ggcgattaag 1500
 cttgatccta gcgcacgcca tcgaccgat gcggcgatcc ggctgttccc ctcccgaagg 1560
 ttctccacgt tagcttgacg tgtagcccta actcttgctc aatgacctcc aggccacatc 1620
 caatcttggg catctctggg gaagtagact tgtccaatct aatctcgacc cttttcactt 1680
 tttgttcttc cctttttttt ccgcgggcaa ctagctgtca ccatgtcaga cctcaaagct 1740
 aggcgtctcc gaaaccgcca atggcttcca cgtcgagggg tacgagaaga ttgaatacga 1800
 tttcacattc ctcgatggcg tctttgagac caagaacgcg cagctggcac aactctatga 1860
 gcgctggggg cgggtgcctcg ccatcatgga caagaatatt tacgacctct acggcgacga 1920
 catgaaacgc tactttgacc accacgaggt aaagctgcag atccatcaaa caatgattgg 1980
 cgagaaggcc aagtcgctag agacatttac aagcattggt gatgtgatga atgatttcgg 2040
 catcatgcgg aaggagcctg ttctcgctgt tgtacgtcgc atgcttgccc atctaccttc 2100
 agtcaagac taacctaccg cagggcggag gactcgttac tgatgttgct ggggtattgaa 2160
 tatctttgtt cgcttatatg aaactgaatt gttgatgatt gaatatacag atttgc 2216

<210> 2131
 <211> 1089
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2131

ggagactctg gaggcgcagc ttgctgctct gactttaggt ttacaaggag tgctagcgtc 60
 tcgagatctg aggagcatcg tcagtatcca gatgatacca gatcttcagg cgaagggctg 120
 agggccagca caggttcagg ttcaggctcc ggctcgaacg caagcataag cacaatcaca 180
 gactaccccg aaaccaggg tgcagtcatg catttcttca tccagggacc gggtcggtac 240
 gaagataaag tcgaggggaa ctatctaggc ccatcatctg gccttgcaat cgccgagaat 300
 atcagtcgta tagtcagga cgccgtgtgg aagtcacatc ccgtgaatga gacgcacgag 360

tttcaggcgc cctgtgagaa tgagaccacc ggcccagcct cagcacccga cgacgcaatg 420
 ggagcgcgta tccttgaggc gtatttcaag agtatgcaga tgcgtttacc attcctgtgc 480
 cgagccgaga tttacgagtt gcacgctaga cgctatgagc cagttggccc gagtacagca 540
 gagcaatttg cccgattcaa gatctttatg gtctacgcga ttggcgcggc cataactcagg 600
 atgacagaga tgtatgactc gaagccacct aggaattact ttgttacggc catgcagtat 660
 cagcctgcta tccagggatc gctctccatc tcgagcatcg aagctctaata gctcctcgcc 720
 atgtacaatc tgcagtcac cgtatgctcg agcgtgtggt acatgatggg tctggcgaca 780
 cgaatatgcg tcgatttcgg actgcacagg gaggtccagt atcggcggct cagtccgtac 840
 gaggcacagc gacgccggag gctcttctgg agtgtatacc tgaatgagcg ctccgtcgcg 900
 tggtcggttag gtcgaccgtt cagcattggc gatgaggaga tcgacgcaga gccccgggt 960
 gatattgacg attcgtctacc agaaagtgc gacgaagatt cattccgaac acccaaagac 1020
 cggggcgagc tgtggacggg cccgaatatc cgggtgtttca ttgctgcat caagccaaaa 1080
 aggatatca 1089

<210> 2132
 <211> 1296
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2132

ttcagtctaa agtcagtcct gctgcccacc ggcgtggcat atattggttc tgtaactttt 60
 cttgcccatt cactgattga ctctgtttca agctgtttgt ttagatacag tttatgagat 120
 ggccatcacc ggggtccgta gcaagtagga caaccttgcc acccttccac agccgaacga 180
 ccttgcaactg cacggcgtgc ggtcaccggt cttttgtcca caaacagcgt acccactaac 240
 cctttccgct cccctttttc ctcttccac tttttgcccg ccctacgaga agagaagcac 300
 ggccgagata ccatagcaga aaaccagatt gccaggtgc cttttatggc ctttccctaa 360
 acgcagacaa acctccgaat ccgaccagcc ggatccggtg gcgataagtg ccagcgctag 420
 gccggtctgc tggatatgtc ggtagtagct cgcgaggatt atcaggggtg caagggacat 480
 gttgcggccg ccgatggcgg gaccgaatgc tgccatctgc tgactggcga tggtttttgg 540
 gaggccgaaa atctggaagg ctgttcacgt tgatgtcagt acaggtcggc cagtcaatga 600

atcacagcaa gcagaagaaa ggactacaat acccaaatta tggttgacga accagaatgg 660
 accggttatc acggccaagg aggctatgaa gcgcgcgagg tagagggcaa cggtttggat 720
 aagcatgatg taactacaga ttggcgtcgg acagaacgga cagggctcgg ctgtgctcgg 780
 tttaatgcga ggtattaacg aagttgatat gtggtatgtg gtatggtaag tcgtggggac 840
 ggcgtgcacc tttttaaacg aggcttgatt ctagtctcga gcatgccgtt gttggaatcc 900
 tgtgtttctt ataggagttg actggccgag ctcttctcgc ttgaactcat gctcatttgc 960
 ttgctgtctc agatacagac tcacagcagt aataaaggat atgtgctacg tctgggctta 1020
 gactattggg gaatggattt aatttgaagc aatcatgcat gaatattatc agcaactgaa 1080
 ccaaggctgt aaagtcatta cacttggag tggcgggagg aactgttgcg ctcccaaata 1140
 cctatcgtgc atataatccc ggccaagggt ttatcaagcg tagctgcagg agccctgcgc 1200
 aggggtgcagt gccgttgccc acaatgggac caaaatatc ccggcagtac caagactgga 1260
 gtctagccta agctcgcagt gctgcccagc tgtcat 1296

<210> 2133
 <211> 2481
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2133

tttccacga ctgcgtggc tcgagaacat tctcagctcg ccaatcattg ctcccattcg 60
 tttgctgaac aagcgcttcg gacttgccgg tggctttttt aatcagtttg atggtcagg 120
 cgatttgctg gatgatcttg atgaccatta cacggcgcgt cagcacaagc gggagcgcag 180
 aattttcatc cagcgcctac aggacttttc caaggctcac tccatccgtg ttacgatttt 240
 aggtggatgat gtgcacttag cggctattgg acgattttat tcgaatccca agctgggcgt 300
 tcacagcgag aacgacctc ggtacatggc caacatcggt agcagcgcca ttactaacia 360
 gccgcctccg aaagcagttg cgaatctgct cgcgcgacga aacaagattc atcacctaga 420
 cacagatact gatgagacgc tgatggactt tttcgacggt cagcctggcg gagtagacaa 480
 gagcgctcc tggaacaaag tcaactatgcc atctcgcaac tacgcctgca ttaccgaaat 540
 tgaaacaccc gctgctaacg gtgatggggc gcagcaaat ggtgtgactc tcccaatccc 600
 caaggacggc cattcccctc tgcatacggg cgagtcaacg gctggctccg ctcaactcagc 660

agcggacggt gtcagcagcg cgagcactct ccatgggtggc ttgaacgtcg caattcgcgt 720
 ggagattaac ccccagaaca gagacggcgc agctcatggt tatgggttta gcagtatggt 780
 gcctaataac acaagcatct tgcccatgac actgtaatgc gatagagcta accttgacgc 840
 agttcccgcc ttatcatatg tccaaacaga agacgacgct cgaccacgac cgcaatcacg 900
 ctcccgtcg ctccatgcgg cagcggcatc tatccgctcg cattccaacc agcgtgaagc 960
 ccgtcccagg acctcgacct agtcggatag agacaacaaa agaaaagact atatatgtac 1020
 ctgctatcct aacacaaact gttgttgcta tgtataccca gttatattgt ggtttcgttc 1080
 tgttttggtg ttgattgata tccatttggt gtataatgtg tctggtctta tatctctgtc 1140
 tcttgtcttg ctcatgtgaa aatgggtcatt tattcattca tgggtcgaca attatactat 1200
 tcatgaccaa gcagtcgacg tggcgatcag ctttatgtat tattatgggt ataataaaaa 1260
 ttttgcttga ctgcacactt gcaaggggtt atgagaatat tcccctggtg gattaagtac 1320
 tcggcacgct agactagtgt atatcaccta ttgacggct tccgccactt ctcatgtcat 1380
 cgtaaattat ggaagagatg agtcgccaag ctttcgacaa attaatacgt agacaggcag 1440
 gaagcaggaa tcagttgcag ggtaggtatc tttaagtcac gagtaagggt ggtcaggact 1500
 cgccaacgta acagttggat ctcgatcttt tgcagccgca agatcgatgc tgtatcccct 1560
 tcgttgtctc ggaacaccct cgttcgggtt tggtcgcggc ggtgtgccct gcagcaggga 1620
 atcagaccct gtggttgaag tcgtcgttgc taccagcggc gccgcgact gtcccacggc 1680
 cagactcaga gcctcggctg ctggcttccg cctccgaacg acctggtagc ctttgtcaag 1740
 ctcgatctca atagcgcac ggaccttcaa tgcggagatg gcaggccaga cgccacgttc 1800
 gcctttcagt atccagtgtg ctaaactggt atggtctggg ttttgaaaaga gtttgaaaaa 1860
 tcgcgagtc cgagatctgg aatgaggggt aggtgggaac cagggattgt ctcttcgatg 1920
 agaagtcttg ctaaggttac tggcagcgcg ccgatatagt tgagctggcg gagcggtgcc 1980
 tgatctcgag ggcaacgaga cgagttaaag aacgggttat attccagcgg ctgtcgtgg 2040
 gtctgcgac gaggaagttg agctctgagc ggaaaaaagg gattatgtac ggacgtgttt 2100
 gcgagattat gaagtgggtt acattgaaaa gctcagcgat tcggtagagc ggggattccc 2160
 cttcttcgta gtgggtgtga cgccagggtc tgaaaaccgc atcttggtg tgtggccagg 2220
 ggacgattga gcctgtctca tctttgcaga agatcgtaac aggaggatag agagagttgt 2280

tgggtggcatt ggagggcgact gcagcggacc aaatcagctg tggtttcggt gtcagtacag 2340
 catcttgtat ggtcctgata gactaaacgt accacattcg gtgcagtcaa gtaattgagt 2400
 aaatttggtg ttccactccg gcctgatatt gctactgtaa tgtttaggat gcgtttggac 2460
 ctagcataag cttcctcaaa t 2481

<210> 2134
 <211> 3417
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2134

cacccaagca actccatagc ccaactgaac cccagcataa gaaacgtcac ctagttgaac 60
 ctctataaat aaaaaacca atctgattcg cgccctccct atatcgccaa ctggttcgac 120
 atgctcctcg ttctggcccc accgataccc ccggcacctg ttcttctggc ccttccatct 180
 ccatccccag tcctatgaac accgtcagac cgcagccctt ccggcctccc cataagaaca 240
 tcctgattca acatcttctc gtggattccg ccgcgtccat gatgtactcc ctgcgcaaca 300
 aggcgctccc tccgcacccg atctttctcc tcctcggcgc gttcgatacc tattatccgt 360
 tcatagcgca tgtagactg gaggttcgag ataaagccta aaataaagaa caactcaaga 420
 caagcgcacg caggggaaca agactagagg ttaggtaaag cgagggatca cgcaccctc 480
 cagataacag cgtaaaactcc catgatcacc agcgaagcga gaaggaagcc gaagaggata 540
 ccgagctcgc gagcaatagg gacggacgac gaggggacct ccgggggggat attgttgtgc 600
 gcgttgatga ttgtgtttgt gcttgtggac attctatcgc aagatcggtg aaggctttct 660
 ttatcggctt ctgctgagct tgcagatcgg aatgagctgg gcgcttgtct gatggacgat 720
 gaggtgagac gagaggagag gatagttaat ttcgaagtag attctatcat ggactagcta 780
 ttcattcagt gaaggaaaaa caaaaaatca actgactagt gtgtgtagtc gtgtagcgag 840
 ttcccttact atccagagaa atctaagata gaaaatactc gaaggagact aacaattaat 900
 tagacaacct aagactaagt acaatcctca aatgaacgtc ttgccgttgc cccatcccat 960
 gtcatgtcac agggtcgctg aggcagtgag gtgaggctgt actctggcct cgtacctcgt 1020
 ggtgtcacca gccagtcggg tactcgttct tactggccac tgcatacgag cgagtctctg 1080
 ctccctgctt acgaaggtat tctgagccgc gccaaacctt gtagatgctc aaagacaaaag 1140

aggtgtcggc agggttacct taaatccaag acttggtagg ctgggtccgc ggattggtgg 1200
 aatatgggtt ggggtcgaag tagacgtgct ctatacctag gcccataact aagtatgcaa 1260
 gagaattttc cgcgcggaga tggggatggg ctttcgtcat gcccagcagg ccatgacagg 1320
 ccatgacatc tgtgtagaga cgtgcgctgg cctaccctgc taaaaactgc attgagagaa 1380
 tacctccaac aggtttgaga atcaactgaa ggtctggtct tgcattcttg acgtgtccgt 1440
 ccactgagcc atgcccgcg atatcattta cacgtacata aaaccgtcag caatccttct 1500
 atacacggcc ttgggtattt gtaggtagca acttggcagg taggtatgta tgcaagcatt 1560
 aacactgcag gggaaggctc gcagaaacga agcgaaacga gaaagtcatg aaagcctccc 1620
 agtattagcg tagtcgtatg taactggctg ataaatgcgc gctggatgca agacgctcat 1680
 gcagcaaaga gaagaagacc aaaaaattg cgggtgccct ggggacgaag aatcaaaaag 1740
 gaagcgatag caatgcataa ctccagatgc agatgcaacc gatgacttgt cgaaaggaaa 1800
 gaaaagcata gggaggcgtt ggtcgtcgaa tccggtccag aacgagggat taccacagca 1860
 tcacggccgc catggttgtg caggtcagcc caatggccat tccaatccac ggagtctgtc 1920
 ccagtgtgcc ttcgctccgc ttggtcaact cggtcgatga tctccgtgtc cgtagcgaaa 1980
 gagccgtcct tctgagaaga gggatggcta tcgtgtctgg ttttgcttgt gtatccgcga 2040
 cttgtaggtg gagcatctgc tgcgtctctg actggatgtg cgggtacgtct tcgggggtcg 2100
 tttgcacgtc cgatagaggt cttgacgggg tgccattctg cagtgatggg cttggagcga 2160
 cggcgtgcgg cactgggtcc gccgcaacga gggcagccgt gggggcgagg cagaaaagaa 2220
 gtgtggaggg cttcatttgt ataataaaca ggcgatggc ggaggttgag tcgacctga 2280
 ctatgcgtat tgcgggaaca tcaatagggg ttgcgatggc tcggtgatta ttgtcgaca 2340
 cttggacggc tctaatcgcg cgatctaggg cggctcaaga gataaataat aaaaatatta 2400
 atgagccgtg tgctgagcgg agtcggcgag ggcgagacc ggttgaaacg agtggcaggt 2460
 caacctctcc ggtctcctga gaaaacagct atcgagcgac tagagcggca agttgaacgg 2520
 tcgaaccact gacgcgcaa cacaacaatc acaatgttga gacaaaggcc aacagcaaca 2580
 tgcgttaggc gcaagaaaat agcctgagct gcatgagaag atccaacacg ttcagcttct 2640
 gcaagggaga gtaaaactgca caagtgcagc tggaggtgga aattgggatg gagaaagcca 2700
 aggcaaaggg gcaggaaaag tcccttggtc cctgggtctc atagtgggat ggtacctgca 2760

atgtacagct gttgattggc catccagcta ttgtgaggct agcgtgggcc gatcgctgtc 2820
 tcgtgcaacc gtccgaagct tgtcggccaa cgagacagcg ccggctgaat cttggcggtt 2880
 aatcgcaacc aataatcata gggcggcaca gggcgcccca tcctgtgtga cgcaattagc 2940
 accaatcaga cagggtcac tataaatatc aagatcaagg atgtataatg cttatgatta 3000
 tagcagagca ccaaggctgt atcagtcgcg tagtacgtag tcctctatct tttcatttat 3060
 gacgacatta catctaactc acttgaatat cccatccagc gggttacaaa gcacttgacc 3120
 ggcacacag tatcttgctc caatctgggg tcacagtaaa cttgccgctt agttgtccca 3180
 tagccagac cttgtgctca tcgtcaggca tctcctctgt cacattcggc ggcgttgaca 3240
 cgatcagcgc ttctgcaga aaatcaactg ccgttgcgcg gtccagttcg aagctgatcc 3300
 cgccccagtc catggtcacc cgcccggaag cgtgcacatt gagcttaccg gcttgtccgg 3360
 ccttaagctg ccagtccgct gccgtgacaa ccttggaatg actacgataa aatagtg 3417

<210> 2135
 <211> 1799
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2135

gtatctcatc gcggtggcaa ggtggcgaac caggcgttga tctgcgattc gaactcaagc 60
 gccattggaa tcagcggcgg acgttggccc atgttgacga gtcttctcga taaaagcat 120
 tcaggaccct gttgccaatg cgtcggagcg cgacttccgt taggtaatag taccagctct 180
 gttcttcatt gaagagacgt gatatgtgat tatatacggc ttgacctggc acgaggtctg 240
 ggggctcagg ggccgaagcg ggctcatcac gaacatccca gtctgaaatg tggttttgac 300
 cttgacgtgt tgggtattct tctgaaagag tcggaggcgt ggggaagaga gctgggtact 360
 catattcggc aatcgagac tcgggcagag gcagttcaac gcggatttcg acctctgatt 420
 tgaagcagga ccagtacaga ctctgctcta agcgttgtgc aacgggcggg tgctgttcag 480
 ctctgtagac ggatcggtcg aggccttcga tcagcctcag tcgcaaacgg tagaacgtcg 540
 aggcctggta gaagtgggtc caagctggga gggggcgaaa tgtgtacatg aggtagactg 600
 tgagcgtgag ttcagctcgg ccttgtcctt gtctggggct gacatacccc cggcgaagaa 660
 atggcattcg gcccgaatga ccgaatagtt caatagcccg atccttttcc gggccatcat 720

gaaaaacgcc tcgccctcgc gcagtctccc caaagaactc gacgtagagg cacgcctacc 780
 ccatcccagg ccatgtcctt gcctggaaga agtaaattggc tgcgaaatac aacccaacgc 840
 acaggccagg agtacaaggc acgactgagc atcccactgg agcccgtact cgccagcatg 900
 cctggcggac cgaacgagtg cttccagatc caggatcggg ttcttcgtgt ggacattctg 960
 aatgaactga tccaccagtg ctgggatctg ttcactctggc gtgatccgaa acccacctgt 1020
 gtctgggtgg gcgctctgga cggactgatg ctcgacgcct ccgtccgagg agtactggaa 1080
 gagcgtcgtg ataagcgaat tgtctcggaa ctggccgccg aaaatcggcc aggtgagcac 1140
 ggcatcagcg ctgcatcggc aggcgggggat ctgcaggtag tcctgctgcc attcctgtgc 1200
 tcttttgggg acgcgctcgg gccgctgtaa ttgtacggca ggcgcagagt cccgaggagc 1260
 cagcggcgtg ttgttcctgg agatcaagag gtgctggata ttctctactg tctcggtcag 1320
 ggtgtcgagc cgttcaaaga ctttggccag ttccctgcag gtgccagatt cagtatgggt 1380
 cacgagacgc atggatcgag taggctgaca tactgctgac caaccgtacg ctcatcgccg 1440
 cgcgcagtgt aaacacaagg gatctcgtta gcgtggcagt acccacaagc tggctggcca 1500
 ttatcacagc ggatcttccg tcgtcgacat gtttggcatg gccggcttgc gccgcggccc 1560
 attggtcctt gcttttttgc tagggggagg ctggctcgtc tccacgcgac tttctgatct 1620
 ttgagaagct gaatcgaggt ctggatccat ttgtcgttaa cggagtgggt tgagatctgg 1680
 gcacgtcgaa aggagaccgg gggagctgga gactgggaga agaaattgtg gagaagacag 1740
 tctacggata actccacgtg atacttccga aagaggaagg aggtttcact atctattat 1799

<210> 2136
 <211> 1613
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2136

tcccacctct atcagtagta ttcgccagat atatctcgga tgagccttac tctctaaaca 60
 cttaagccct tccattctgt taccacaacca agctcgtcgt aaaaaagacg tagacgggtgc 120
 aaccaaakat aaaccacaaa atcgaaagag acacctagag cacacgtca tttattatca 180
 ctatcatgtg cctcattaat ctttttccag acctcggcct ccacttcagc aagcttggtc 240
 cccgcgctgt gcagccacga ttttgtgctt tcccagaggc ccccttcacc ttcacggcca 300

tcagtatgtg tacctaaatt tgagctagtg gcagtggcgc tgtgcagagg aaggggtggtg 360
 gaggtagatg ccgagggagg agtgtagacc gaggcgtagg gtgttggtgt tgagttggga 420
 actggacctt gatattggga ctggtaactg tagccagagc ttgagcttgg ccctgatgtg 480
 tagctataag aactagctgt cgttggtgcc ctagctgttt gaggttgagc tggatatatg 540
 cctccggtag aggacgtcga ggttgaggta ggagctgttt cgctggggg gaacgcaggt 600
 gcactggta tgatagcagg tgcagggta gggtttgaag aaggcggtag ttcattgtgt 660
 cgtgtttgta aagctgggtgc aggcgtgcgc acagcggcgc tcttcgggtgc aggtgccggc 720
 actggaggag atgaatggtc ctcaattcca gctttgggtt catcttctgt agcttgcttt 780
 tgctgacctt tcgggatgga agctatgcta ctggttgggt cagggacggg cacagcacct 840
 ggctgcggtg gtggcggaga tgcagaggca gacgtagcag taagagattc cgggtggtgga 900
 atggtggttg tcgggtcatc tgggatgtct ggcgtaggag cctcgaggac tgtcatgctg 960
 gtgggttttg ctgtcgcata aagaggagaa taagatggtg ctgttgagc agaggcggag 1020
 gctgtgcctg tggaggcaga tggctcagat agcaatgtat tcttctcgtc aatgtccatc 1080
 ggcgaagagc tggaaactgac tttgttagta gacatgatgc tgttagggtc ttgatattgt 1140
 agttctgact ctgggcagta tatggtacgt agatggttta ggatctacga cgtcattatg 1200
 gtactgcacg tgatcgacaa aacacgtgtc tacagcgagg agatttacgg agaatacaggc 1260
 gaagtaacaa aaaaaaata cagttggcaa aaaggaaaaa gcttgcaggc agtaaagtac 1320
 aactggtaca agagaaaatg tcacactttg tatgctttac gcatacctct aaaagatccc 1380
 cttcatcatt cacctcttga gttttatccc agaaagtac cgaccccttc cccaaaagg 1440
 ttacaccaac aaaacagtca ttttgggcga gacgcttatt tgaacttctt gccgaagagg 1500
 atgagctgga ctgggtctta atggacagga caccagcacc agcgacacca cgatggatgt 1560
 tagcaccagc acctttgaga ggggacttga caccttacgg cgatgatctg cgg 1613

<210> 2137
 <211> 2375
 <212> DNA
 <213> Aspergillus nidulans

 <400> 2137

gtgcattaaa agctcgagg tgcattcagc accgttctga ctgaaagtgg aattgcgatg 60

gtttctgccag tctgctaatt ttttcggtgg gcgccagcga tccctcgcca ataccagac 120
gctgggaacc tgggaggcga atatgctccc agctccatga agatcttccc gaccgcgcac 180
gctccagtcg ccatccagag cagtggccat ctcgaaaata aattacctct acgtggacta 240
ttgctatgga cgagaaagcc ggcgagcaat tgtctgcagc ggacggcggc acatttccca 300
actatgtgcg gtgctccgtt gccggatcct gatatgacga tgcgcagtga tctagtccac 360
ctagtccatc tagtaagcgt acctgtctca aagggcatcc tagtgtctgg tacgtctgga 420
tccccgttc cagaaccagc agaaccggca agccaggccc tcgactcgaa actagggcag 480
ctcccttgcc cttttctggg tcgtagggtc ttgtcggtcg agaaaggctc acgtaggcgt 540
aataaaactc gaacatgcga tcgagatgga agaatggcat tcgttcagta atgctccgta 600
taataagtag aatattaatc cccggaaaag gactcgtcca gtggatgtcg tgtgctgcct 660
tcagttcgca gcgacgtcc cagactcagt ctcgttggcc ctccaccac cgctccatcc 720
ccatcatcca cttctgcatg ccatcctttc ccatcttctt catctagtgt tgaacctgga 780
ctctgaccat cctccgctga gccctgcttt gtgccaacc tgagggggcc caagttccct 840
gtcagcttgt ggttgaccac tggaattgac tggttggctg gcgtctgtct cgtgcttttc 900
aacctttcac cttttcttac atctcccttc cccctctcat cgaccacaac cttctcgact 960
tctccttcga aactgcttt ctttccaga cgttctccta cgtcgtacgg aatataccac 1020
gaacctaccc tgcattatg ctgccgactg tattctttgc cactgggctg ctgcggcctg 1080
cgcgctactc gaaccccagg ctcccgctgt attttgggat catcgtcac cccagccccg 1140
ggtttccctg cgcgtcagcg gcggtgacga gactgttacc ggccagcgac tttgctttat 1200
cactgaaccc tcgattatat tctaccgccg gattttaatc ataccgtgcc caagatgggt 1260
actgggaagc cgggtgaacc gttccagtcg cttccgccga cagcgcctca gcgcgaaacc 1320
tccccgcct ctccgccgtc gagacgagac cttacaacat ggtggaggca gttcaagaga 1380
aactctagaa aggaggagcc gaaaggtagc tgcggacaca aacgttggag agagagagta 1440
cttcaggcgg cgggatgggt gtagtgaatg cgacaagcta gttcttaaga acccaattat 1500
tgttcgcttc actgctctct aatctcttta ctctatcat gccgtctttc tggagacgac 1560
attgcgcttg agtttgatct ccctatgagg caccttcgta ctgacaattg cgttcagaga 1620
aagcccagca gggcattttt ggtatccac tcaagggttag catcaagtat gccaacgtcg 1680

ctatctctct cacaaacgac aatggcgaga gttttatcta tggctacgtg cctatagtgg 1740
 ttgcaaagtg tggagtgttc ttgaaggaga aaggacgga attccattt tctggtgtcg 1800
 ctcggtcggc gctgaccttt atgctctatt agcgaccgat gtcgaggga ttttctgtct 1860
 aaacgggtct gcgaagcggc ttaaggatct acaggagatt tttgactccc cggagcgata 1920
 tggccaaggc ctggaatgga ctggatatcc tgcgcatgat ggctgtcaat gttcttcgac 1980
 gataccttaa ccagttgcc cgaaccaatc gtccgtaga gttcttcgag gcgattcaca 2040
 gaggccttgg cgcaattcaa attgcaggcc caggagaaag gacctttcct gactcggagg 2100
 cctctagct gccaaagccg ctgggcttcc cacatcttac caggagcttc cgccttaaaa 2160
 agagttccgg tctcaatctc atctctgtct gcttgccata cttgtcaacc ggtacctttg 2220
 tatgtcttca tttttacgct ttctctcatc atcacattcg ctcgatcata tacatccctc 2280
 agttttctcc ttcaacaccc tcccttgttt cttctccacc ggtacacctc tatcctgttt 2340
 accccctct tcaaccactt ctctctctcc gtccc 2375

<210> 2138
 <211> 2071
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2138

gagacgctga ggccggactg cgtgcctgat ggatcagggg gagggggttt ttcggatggg 60
 tgcgaggttg cttcgatata tgttgatgcc gagtgagggg gtaagatggg atcggagagt 120
 ctcttcgttg agcctaggtc cagcaagtcc aagagccggc ggggtggcctg cacggcgaga 180
 gacacatcag gagccaaagc aaacatctgg cccagagct gagacgagac gagcagggcc 240
 agctgaacaa tgaagaactg tgtctgggtg tagtgaccag cgataatctg cttcgcaccc 300
 caccagtatg caagcgcata gacgaagtgt ctgaggccgt aaccgacggc gagccagagg 360
 ttggtgaagg cggattgccc tggtatctcg cgcagggggc cctgcaggga gcggcggtag 420
 gtggaaagaa cttcggactc aatggccagc gcgtggacgg tcttaatgga tgtcacggct 480
 tcgacggtta tgcccaggga gcgggcgaag gcgtcattgt ggcgtcctc aaagcgggct 540
 aaggttgaga cacgcatgaa cccagcggcc aagagaagtg gcacgacgga gagacaaacg 600
 agtgcaattc tccaggcaat gatgtgggtc ataataatgg cggcgaagag gttgacgagg 660

atgctgagga ttgtgcaaat gacggatccc gtgaggccat tgagcgcgtt gctgtccttg 720
 acaatgagtg ataggaggcc ggaggggtgtg cgcgcttcat gccattccag cttctgctcg 780
 agaatggaac gtagagagag cacgcggact ttatatatga gctgctccgc gatccagccg 840
 aagagggacc agctgatgag gtttgcgaaa aactcaatca gagccaggac gaagaacatg 900
 agccccaga attctcccg cgtggcggtatg gattctgctg tctcgcacga gcttagcttg 960
 cccacaacgt taccgaatat gacagcagaa ccgcagtatg tgcctccgat gacgacggca 1020
 ccgatgatgg ctacaaggag ggctagcgag tacggacgga agagagaggc aatggcctta 1080
 gaggtagaac cgacagagcg ctcggtagta actggttctt cgtctgctgg cttctcttta 1140
 ggggatggag tggagctttc gtcgtcttgt accgatgtta cctctgcatt cctttctttc 1200
 tcaagcgccg tactgtccag tgacggccga gcagacgaag acgcactctc ctgcgaggca 1260
 ttgacattga gattctgcaa ccttaccagc tctgcatacg ctccatctgc cgcaagaagt 1320
 tctgcatgag agccctgctc aatgagcttt ccctgtctca tcacaataat gttatccgcc 1380
 ttcttgatgg tcgagagccg atgggctata gtgactagag tgcgtccagc agccgccgcc 1440
 tccaacgccc gttgcacgcg taattccgta gcggaatcca gagatgcggt ggcttcatca 1500
 aggataagga tttgggggct tttgaccaag gtcggggcga tcgagatacg ctgcttctgg 1560
 cccccactga tgaggttccc gcttgatccg accattgttg cgtagccgtg gtcgagcttg 1620
 ttgatgaagt tgcttgcgtc tgctaggcca gctgctgttt cgaccaagga cacaatctcg 1680
 cggatctggt ctttggttgc ggggttgcaag tcaatggcgt ggttgagact caagcctttt 1740
 tcccgaatag cagtggcaat atcctccaag gcactgctct tcagcacatc catcaaagtc 1800
 acatgtgctg aggagttcac cagtccaaga gcaatattct ccagtatcga ccgatcgagc 1860
 agacaaggtt cctgctggac aagactaata gcactgcgca gaaaccgcac attcagctcg 1920
 cgcacgtcat ggcccccaat cgtcacctgc cttcctcag catcatagaa ccgctgatac 1980
 aagccccgga cagttgactt gccgctgcca ctcagctccg acaagcgccg tctgcttgcc 2040
 tgccgggatg cgcagcgtca gatcctgcag g 2071

<210> 2139
 <211> 3588
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2139

ggcggctgcg atcgattaca aaggggtatg ctat ttggtat tctatcttct ggatgccgaa 60
caaggtggct aacaatctac aggtcctggc caaagtagtg accaaggatg gcgtgagggc 120
ggaggacttt gacaataacc gaatcgtcaa aagtgccttag tatatgataa caagcatttt 180
atgttttccg gtatcatttc cgacattttg ggctggggc ttctgaaatg attgcttgca 240
tttgactccg gtgtagtctt tcggccgagg atggctgcta ggtagacaat aaatgaaatg 300
acatgacacg tattcagagc caaaaatgtc tatataatta atccaaaaaa cgcgggatgg 360
ttttgctaaa gcttcaagtg agctccgctg tcgagcaatg atgcaagacg aactgtgttt 420
gtcctgtttg catgcgtccc tgggtcttcc gccgtgaggt tttccataac gtcctcgtct 480
ctaccgcctt cgttttgcta tccccggag gagtcatgat gaccaaaga caggcggagc 540
tgtcgctaga gcaagaagct gcggtcggc ctccagctc taaaaggcg cgcacggaga 600
gtgacaacca gcaggaagat gaccgcgtc atggagcact acccttgccg cgagcaccag 660
gacaagagat ggaggacgat gaacaccgcg gaatgaatat ccttgacgt gcggatcaag 720
aggagagga gcttcaagaa gcagcgcagg tagatgagcc ggaggacgac gaagatgagg 780
acgacgaccg gcctgcaatt gtggcccccc aacgccaag tgctccgatg gaaggataca 840
gcgatctcta cctagatacg atcaatcgcc acatcctcga ctttgacttc gagaaattgt 900
gctccgtgag tttatcaaat atcaacgtgt acgcttgctt tgtgtgtggg aaatactttc 960
agggcagggg tcctaagtcc tacgcgtact tccatgcctt ggaagtttca catcatgtct 1020
ttataaacat gggaacgaag aaggtctacg tcttgccga aggatatgag gtgaaaaata 1080
agagcttgga tgatattaaa tacgtcgtcg acccatacta caccaaggac gaggtcgcaa 1140
aactggacaa agtagtcaca gatgcattcg acttgctggg gagacgctat cgaccaggta 1200
tatcgctccc tattcctgcg attcctcaga taaagctaatt tgatgtatct acaggctttg 1260
ttggtatgaa caatatcaag gccaacgact atttgaacgt cgtggctcag gctcttgccc 1320
atgtccttcc catccgcaat tactttctcc tccacgagtt tccacaacca ggtacacctc 1380
agctggctct gcgttttggc acacttgctg gcaagctctg gaacccaag gcttttcggt 1440
ctcacgtgtc cctcacgaa ctcttgcaag aagtcgtttt acgttcatcc aagcggttca 1500
ccctcactca gcagtctgac ccagtggaaat ttctatcctg gtttttgaac aacctacatc 1560

ttgcgcttgg cggtccccga aaaccatcta agacaccaac cagtgttggt cacgctgctt 1620
 ttcaaggtca tctccgaatt gaaagccagg caatcacagc aactcagat acccagaacg 1680
 cccgcctggt cttcaccgaa tccggtacca ttaacagtca aacgaccccc ttcctcattc 1740
 tcaccctaga cctcccccca acaccctat tccaatccgc gaacagggaa tctatcatcc 1800
 ctcaagtacc cctcaccact ctctgaaca aatacaatgg cattaccgcc tccgagaaac 1860
 tcgcccaccg tgtccgccac cgcctcctcc acccgctccc ccttatctc atgttccaca 1920
 tcaagcgatt cagcaagaac agatttgtct cagagcgcaa cccaaccatc gtcactttcc 1980
 cgtccccgcy ctcgcttgac atgtcgccct acgtagaacc caaccagag atctggcctc 2040
 cgggcgagcc gatcctatac gacctgttag caaacatcat cctcgacccc atgattaccg 2100
 ctcccggggg aacggaggac gctgctgaaa agggcgtaa tgcagcgctc ggcgggcgcy 2160
 cctcgctcag cggtgccggt gcggggactg agaaggtctc gtggctcgtc cagctgcatg 2220
 ataaagccat ggctgctgag aataccagta tccagaatga gcagcatagc ggggaacagc 2280
 gcggtccgga gtggctagag atccaggact tgtttgtaa gcgcgccgag agtgagacgc 2340
 ttttcaccaa ggaagggat cttatggttt gggagcgaag gagggttccg ggaatgaaaa 2400
 agaaggggaa aactgctccg aagtgaattt tggtcttggg tctaaagcgt cctcagctag 2460
 ctagcttttg tatgtatcat taaatatgag atatcatgat attgttcaga agagaatata 2520
 cccaaattta cactgtactg agttggcaat tgtaatcagt taggaaaaca gactagaaca 2580
 gtgcattagt attacaaatg cgacatctgg tategtacat gccgttccgt ttcagtacat 2640
 gaaccctttc agaatgcacc ccatccgcac catttctcc caattcta atcgcagtcccc 2700
 gagataattc cccaaacgga agcatttacg gcagcctgga tccccatcat gagtgttaagt 2760
 ttacccaaat aggcgagtg atgggattga gagcgccac caccacaagt tcccaaggga 2820
 taaacatcgg accggagaac ggctggagct cttttatagg caaggatga tcttgcaagg 2880
 gaacggaggt aaaatgactc gaggggcgcg aaaagggccg cggtgatcat ggctgctaaa 2940
 tgagaggcca gcgagtcac tggcagagag gagaggatgg ttactctatg ggatgggatg 3000
 aaggctgttg ttgcggcgg atcgctagct gagttttggc gggcagcgga atcagctaag 3060
 tgtggaggaa attcggagtc tgcgtcggcg gcagcgctgt cgtctcgggt gggtagttgg 3120
 ttgttatcgg cgtcgacggc taattcctct acgtccgatg gggtattgggt cgggcctgaa 3180

accgtcggct caagagagga ggcagcggcg ttttgacctg tcggcacgcc atttggttgg 3240
 tggccagagg cagtggctgt tatggtttcc ccatgactgg ggtgtaccgc atcagtcata 3300
 tcaacagcgt tatatgtagc ttcggagtcg agcattgttg ttatgtgtcc gccctgggtca 3360
 gatagaatcg tatcaaggag atccggaatt gagtgactac ccgccgggtcc tgcaccggca 3420
 ttttgtagtt cgacatcgct gtctctaata gcattcctgt catgtgtctg acggctttcc 3480
 agctccagtt gcatggcaat gacatccgac tcctggacaa actgtgcgcg aacccgagga 3540
 gatgattggg aagacacagg cgactgagac ctggagagaa gtgtatct 3588

<210> 2140
 <211> 2972
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2140

cccgggcgta tcggagacc aatccttcag caccaccttc gctgcttgag tcgtoccaga 60
 caaattcctc gtcacggag ccgggtctgt attttctgta gatcgctgtt gcacogacct 120
 cctcgttgtc ccaagatagc tcctcgtecg gatagtcatt tgcaggatta ttctccgcta 180
 ttaaagcagt ccattagct tcaggcatcc gcatcaaact agaaggtaac tcaccgtag 240
 aggccccatc ttcgctatcc cacttatect cggcatcctc atccttcgca aagtcgtccc 300
 agtacatttt atcctccggc gtaatgacca taacgccaac attctgacca ctgctatoga 360
 tcccatgggtg gcgcaaccat gtttcttggt ctaattcaat actagctagg ggggccctaa 420
 agcccttgcc tgggagccca ttaccgatgg aggtgtcgta aacctaatec tcatcacttt 480
 caccaccggc tttgtgcttc cattgatgga tgaccctctc caggttctgg cgctggcgggt 540
 gcggttcgat gcttgtagg aacccgcggc tgatgtttca gcggaggctt aggcaccgca 600
 gggcgagtcg gagagggggc ggcgtattga ttcgaacttg ttggctctgc ctccatttcc 660
 ccgtctagct ctagtgcgat tcgctcgaac tggcttgcca atctgtccga ttctcctcc 720
 caattactct ggcgagcctg cgcttccttc tcaagcactt gggaaatatg atcttttagca 780
 gcagaaattg ccttttgccg ctccgctcgc cacttcttct cggcttgatt taccaccggc 840
 cgctttcgag gacgagaagg cgtctcttct tgggccaggg acatagcaat gtctgctcga 900

gcggctgcat ctgcaaccag agaagctcgc ctggaatgtg gctcacgccg cagcttttcc 960
 accaagacaa ccacggcact atctgctctg cgtttctgga cgcctccgcc tgtagtacgt 1020
 agagggctca tgggcgtgcc acttcgtgaa atctggaatc gacgtatcga gggagtacct 1080
 cgttcggttg aagcagaaga tactaccctc tcgcgggttg gcgccgaatc gctcttatgt 1140
 gatatagttg tggtagcttc agtctctggc tttagcgaac ccggcgaacc atgtagagca 1200
 tttgccagtt taccctcagc ctgcttgccg gcagccgcaa ttctcttttg ttcacgaagt 1260
 tctgcccctg gtgacgttgc tctcaccata ggcacgacgg gccactggc ggtgtttgta 1320
 gtcttgggct gatgaagact gctcacggag cgaggagttc gaatgacct ctgcggccca 1380
 gagtgcgata ggtgagcaga gctagttcca tgggcattat aaccgttatt accgttcaca 1440
 gtgactcggt ggaaaacaaa gtctgtaaac cgacgcttgg tctgatgcag atcagactgg 1500
 atatctgagc ccaaactcagt cttacagaat tacagtaacg ggcttacaag aatgcgcctg 1560
 tttataaacc gtgattttct cgctgttcag gaaacgggcg agaaagcact tacataatgt 1620
 gtctaccggt tcttctctc ggccgcgttt gatgctgatt tgttcgggtg gcaaagacat 1680
 ttcgagtcag taagcagttc agcccagtc gatagacgca atgaacataa aggatgttag 1740
 gaaggcgaag atagacgatg gcggtggtgc tgaacattgt cgttactgaa acgcggttg 1800
 gggttcttcc gttccgcaac ttcttcaatg ggcttaaaca cctgcttgca gtctggaata 1860
 cttccatagc atattgctca caaaccataa ctcagaagca ctgtgacaac acaggcgaat 1920
 ccaggtttaa ctttactatg gttgctatag cacacaatta tataatcaga cctctaattg 1980
 cgttgatatt gtatttctgc tctataccac ctcttctccc caatggctca caatctcatt 2040
 tcgttcttaa tgattaccct cggaagtact cgagcttccc tccaccatca tgcgttagga 2100
 atgctgtaat cccggattat ttctgacatc acatatgcaa taagagaccg agacatagaa 2160
 acagaccaga gccataccag tccatggtgt agccaagatc ccattctcag aggcaaagag 2220
 aattaagcaa aattgtaaaa gtcaagaaca aatgagaaaa cagagaaatg aagggggaaa 2280
 tgtatcatat ccagctagca atacatgtga atggtataag caaagggaat taaaacatta 2340
 ataatggggt tgatctggaa tgtgatactg acatcaaaag ggcaaaagca agacgaaacc 2400
 aatacagtag aaacgaagca gaatgaagga tattccagtt tcaggatgtt tcaggatgca 2460
 gaaaggatca accgtagcag atgaagataa tgggaaggga agaaatattc aaaaactggc 2520

gtgcttattt ggccccaatc tectcttctg cccagccagg caatgagttc tcgttatgaa 2580
 tggccaaccc gaagccggag tggttgagcc ctccaagagc agagttgaag cccgagaagc 2640
 tgctctgagg gtgatgggac gctccagaac gacctgggcc aggttgacca gaaataggac 2700
 caaatggctc ttgagagaat gatggtaagc tcacagcccg cgaatgctga gcacggggaa 2760
 cgctgaggct gctagtgcct gcagtggcat ggtgaccgga gctggcggac gtgttgctga 2820
 tgttgaggaa accgttcgta gatggcttgt gctgatgcaa gggagcatcg atactacat 2880
 tggtgagttc gctagtgggt ccgttataaa gggattgttg atggtgatgg ctgggttggg 2940
 gctgagattg tagaccngtc agtgtaaggg aa 2972

<210> 2141
 <211> 1503
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2141

gtagactctc gctagcccca tcgacgtctc tcttggtttt ttcttccaat tttgggcttg 60
 aggcttgagc ttccggccat tggactgcgg ttcgactctg gcctgacggc gccgtgatat 120
 ttaatcttac tatactttac tatagggatc ggaccagatc tctcctgtac tttgttcgac 180
 tcccaactcg caccatcc gccgttccga gtccaggcgg ttgcggttgc gggcttgcag 240
 tgctgttccct gcggctccag ctogtcccct catgcctgtc agtggtagca gagtcggcgt 300
 cactgtgggc gtcgatgggg gcgtcattgt caaaagtgc acgaccgtca actgtcaatt 360
 gtcaataatg tcaatcgcaa togtccgct ctccacaacg tcgattttgc cagtcatttg 420
 ccagtccatt tgccattgga attgccgttt tcagtcctcg tctcatcaac agcggcgacc 480
 tggcggaaga gactgacggt ttccgcgagc ttggaaaact gaagagaaga ggcctgagct 540
 cagtgcggtg gcgccaaccg atcgtttact acgtccgata ttattcccag tcttgagggt 600
 aactataact gccatattat tattttctata attatttgac tccgatcaga tcagcctagt 660
 atgaaatcgc attctgacac tgaccgggcc ggccagaata atgggaaaaa aaactttggc 720
 cgcgatggcg ggctagccct ctgtctggcc ttagcacgac ccgctgctaa ttgactggaa 780
 acgaattgga tcaattgcat aatttagaat atgaaacggc acagagatta gttcgactcc 840
 gactaaagag caagttaacg atttgttcgc gtcgtgcgcg gccgccacgt cgctggataa 900

gtttcccaca tcgttcgcgg ccaatatccg ttgcgcatcca gagcgtgcgt gcggacaaaa 960
 tctcacgggc gtctgctgta tgtactccgt acaattatac atagaacatc atcttgggta 1020
 gcatatgccc aataatgaaa tacgccaacc ggcttgcttc ccggcgatcg accctgcgat 1080
 gcgggtgtgg acaaggggtca gggatatgggt gagttttctcg tgcgagacgc cttggtagtc 1140
 tgggagacat accacgagga accgcgagaa atacttctaa tggacctttg ttggttaggt 1200
 gaagtttacc gagttagatg gactgttgga tggactggag atccactgct agacggactg 1260
 ttggatggac tctttgagac gatgagatct ggggaaacct tccaggccaa gcactattga 1320
 ggggcagttc gtattatcag atgcaaaatc agtaaacagt tacgataggc tctagactag 1380
 tcgcgaccat gtctctagtt aactacacct acggacgact cagacaccaa agggagtcta 1440
 gtttaccat atattgcgga cagcctgtcc cgtctcgaag tcgcaatagc ggtcagttgg 1500
 cac 1503

<210> 2142
 <211> 2991
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2142

gatcgacggg tatgttatat gcgtttgcgt tcgttttcga agacacttgg attaatacatt 60
 tctcatgttt gtcacagagc ccgtattcca gcctacagtc gacactttca agggattcga 120
 ccaaggacaa catcacaata tgggtcccat ggccttggac cctgaagatg aaccaaggag 180
 gggtagctcg agagcgaata gcgttcgatt tgatgaaagt gccatacacg ggtattacgg 240
 gcaggccaat cgttctagta gtgagcttcc gataagaacc ggaagcggga tgggaagcct 300
 tcctcttact gagcgatctt tatcacatcg ctcgacgga aggcagagct cgtcaggata 360
 ttctcatcat tcagcccgaa ccaatagcct gggtttagag acaaccaaca ggataatggg 420
 ctcaatgctg agcgattcgc ctctcatacc tccgccaggc ctgtttctac taggccccgt 480
 tccagctatt atccggtgct ggatgaccac aaatttctcg aatgattcac ttctttacgc 540
 ggctgcctgc agtggatcgt atagatctct gttgagccac gcgatggttc gaaagctggg 600
 ttttgaggaa cagctggtag aagacgttga ctgcgagtat atcaagcttc caatgtatct 660
 tccagaagcc agtgtgcac aggtttcatc acgccttagt agtcctgccc ccaggtccc 720

caccttgaca atccgtttcc ttgttcaaca tgttagcaca gatgatactt cgggtccagat 780
catccttggg agtgatgtcc ttcgtgccca taatgctgac atcctgtttt cgcaagacaa 840
gattattatg gtggacgacg aaaggaacaa ggtatctatt cctttggtac ggcccgagaa 900
tgactctgtt ttcaaacacc tacacactgc atcgagacat atgaacccat caggagatat 960
atctcgaacg tcgcttgatt tgacgagtga acgtgttgac atagaaaacc caccgcgct 1020
tggtgtaatc gggaagcgta ctgcggtttc gcaagaggct catccggcct cttctcccag 1080
tcgagacttt gcgtccgagt ttgcgaatag tcgagcagca gaatcacccg atgattcaag 1140
gaatggcaaa gatgatagcc cgcaggttcc ggccaaaact ggcatatcaa ccgacacaca 1200
aggagacagt gttgtgaagg tgcagcccg cgtgtgatgg ggctcatgga agcgcgacac 1260
aaagactgac gcgaatgccg ctggagcagg gaagccctcc cgtccacgtc cgatgaagg 1320
tctccggccc tcaaaagcta cgaatcgaag tgtttcggcc actgggccac ctggtgcttc 1380
cagcagcgag gcgacagggc ctccatcatc acatcctgca tcaacaatga cctcgctga 1440
aagtcgaacg gggaaaccac tcacccccaa cccgattgga ggtgcttcgg ccttcccatg 1500
gctgaatgcg tcctgatttt tcggatttca agtatgccct gattggaata tatcagagta 1560
caacacctgt gacgacccgg ccaccgtgac gactttcatt gattactcgc acctagcgta 1620
agcaaaagtt ttggatgagg acgctctgtc gatgtcgtct gattacgttt tcataacgtg 1680
taatagcagg catcttagca tattaataca tacaggcgga cacacgtccc caaacagatc 1740
ttactttaaa tctttgaaag tttctctaata gctccttag tctcttcctt ggtctccttc 1800
acaagccccg caatggcctt gaagtgcctg tgattcgcac ccctaaaat ctcaaataaa 1860
atactctcac tggttgtcac aatcgctccc gcatcccgca accttgcaag cgcaatcccc 1920
ctctcctccg cgttgatact gcttacaccg tcaacaagaa catacactcg atgcccgcgc 1980
tccagcagat cgagtgttgt ctgcgtcaca caaatgtgtg tctcaatgcc gacaatgac 2040
gcatccatca gggcttcacc tttcttcgga acgggtagaa gcccatctat ctctggcgtg 2100
accatcgaga atagcgtctt gtcaatatcg gcgcggacat tggggccatt taaaagttgc 2160
tgaagaacgg gaacagtggc gccaaagtct gcgcgggttt ggggtgtgac aaaaattgga 2220
atggagaggg tgtttgctgc gcggagaagt tttgtttag ttgttactct aagttgtgtt 2280
aatcagagct gccgacagc aaggggaggg tatatatatt atgtcccgg acattttggg 2340

gaattcatag atggcctttt cgaacttctc ttgcatatcg cagatactag ttcaaagtat 2400
 aattagtaaa gtgaatgggc gctaggaact aaagtccatc acaaataagg ttgcgtaaa 2460
 gaccgctggg ttgcctggat tgttacgctg ttagttgggt tggtttcgga ttcattgagtt 2520
 gagggcgaac gtacggatac gacaggctct tgatatggca gccattgtat tttcccgcat 2580
 caaaggaaaa ataatgctc cccccaaaat gtggaaagat ttcgttcaaa agaaggaatg 2640
 tacgtcgaga agtaggagta ataatgaat tgaaagtcgg gggcgtgcgg ccaagtagtt 2700
 gagtgcgtat cgtagaaaat agggccacat aaagttactc gaagtgatc gggtcgaatt 2760
 tcggtcggta gatatggatg atgagtcac gtggggacta ttgggcattg ttcattctga 2820
 ttaataagga aagcatgatg cttggcaaaa acggtcgggt ccttttcttc atccgcgctc 2880
 ttctgttctc gtcttttttc tcaccaccaa tctcaactcc ccataccggc ctcatccaac 2940
 cccatcagct ttggacattg attctcgtca aacaacaatc cggaagctgt t 2991

<210> 2143
 <211> 1472
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2143

ggataaatgg gaccgcgcag accagggaaa aggactggat gacgggcccg ttgaagatcc 60
 gcagttgccc gagtataacg ccccggggca gcctggggga agcgggtggcg aggggggtgc 120
 ggtggcgctg ggatctgggc tacgagtcaa gctgggattg ggcatggtag ggctatggat 180
 tgtttgtgag tttttctgat ccgctggatt gaatctcagg ggcgccagct gcccttgaca 240
 gtgacgggtc tgctagaata aggtgcgcat acctactcta ataccctgca cctacatgta 300
 cagggcaagg cggacaaaaca ccgggatgac ctatgacttg cataaagaaa aatatagatg 360
 aatggacgga atgcacaaat atgaattaag ttcaatgcc acaaggccat ccatgcaatg 420
 caatgcaata tgatagtata tactaggcgg tctctatcag atagaccagc caaagcctaa 480
 ccaactctaa gcatcaagca cgagcgcttt cagcttcgcg aaatccggcg tcccagccc 540
 cgtcacagga tcccaccct ccgtcgcgtt ccaaccgcga tacgggatta cggggctccc 600
 atttggcgat ccgttaaacc ggttgttccc gtgcgagccg gtgctccctc catccacgat 660
 atcgttgagc ccgttcaggc catcctggta gagccaaggg ttgaggaatc ccagcacggg 720

caggcctgcc ttcagacgca cgtcgttgag caacgccacg atgcccgcaa atacaggcga 780
actgcagctc gttccgtcga agagaccgac acggcccttg tcgacgacag cgaagtctctg 840
cgcctgcgct gcgacgtccg ggaaggcgcg tccgctgcgg ttgaagtact gcgcctgtgt 900
gctaccgagt ttgcgcaggt atgactcaac cgcggcgctt tggtacgccc ggcgcgccca 960
gtagtgcgag aacccgcccgc tggagaagta tacaccggat tcgggcgctg tgccgttcgt 1020
gccgcccagc gcggtcaccg aggggcaaga ggccgggaac tcgggcgga agtgcgctcg 1080
gtttttgcca tcgttggtct ggcaggcggc gccgacgcca gagtcacccg aggagaagag 1140
cacagacacg ccgcggggaac cgagctgagc gtacagggtg cagacggagc gggcgctacg 1200
ctcagggatt gtctgctcgt cctcgccgta ggaggtcgag atgacctggg gcaggtcttt 1260
ctgatcgagc ttgaggacgg cctcaaggaa gtcaaggaaa ggctcgttgg tgttgctcatt 1320
cgggtcgggg gaggagaggt caggaatgag cttgccgagg ccaccggttg tgaactcgg 1380
cacaggtagc ggcgacgaga cgcgatgat gtactgcagg tcgaggttcg cctcgccgct 1440
gtcggccgtg ggtcctggt cgttgaggcc gc 1472

<210> 2144
<211> 3271
<212> DNA
<213> *Aspergillus nidulans*
<400> 2144

taatgccggg ttgatatctg ctgccgccga gatgacgctc gcgtggggag gttgaggaac 60
tggggagtg tttgaactgc ctgggcttcc atcagccttg cgttttcgag agtcaactgtt 120
ggaaatgggt ttgaggtctt ttgcgggttag cgattccacc gtcccatatg acttgaaaga 180
gacgatgtag actgggttgc tggacgagcc ggtgatggat gttatgcggg ccgggtagaa 240
agaattatcg cccgataccc agcgggcaag tacatgctca ttcacggaga acgaagccgg 300
gccggagttt gtgttgctat ctgtctgctc ggccgctgaa ttgcgatagc cgggtttcga 360
agcgttgctc tctctcgagc cctttaattt tgctggagcg gtgggttggt ggggagttgc 420
aggtctgagt tcggcgattg atgtttcagt gaggtttata agttcttcca gctcagcttt 480
gagactttgt aattccgtgt tatctgggtc tacctgcaaa cttgattgaa cgggtttcaag 540
ctgcgccggt tagttgcgct cgcgatagcg atcggcctga cctacctgaa gcttgaactc 600

cttgacctca gcctccaggg ccgcgacgtc tgtcatatcg atgtgagaaa ggcacgagac 660
 acaagagctc gtgtgggtag agtagtttgc tggtcgtgaa ctctgcagtc tgcacgcgtg 720
 ctggtcggat gagtctgaag ttcagtcgtt tgacgggtga gtcacgtgat ctacagcgcc 780
 acatggccca ttattacaga aaacgggtcc tctgttttct agagataatg tataaccaga 840
 tcccatatga cagggaccaa gtattgtacg agagaatgcc ctgcctacag aacaacggcg 900
 ggtctatgtg agatgcttgt caaccctgac ccgatactaa gcgaaccgga aaaaaactgg 960
 ttctctctgc aataataatg catgacgggt gaagcgaata gctctgtcgg atgggggtgac 1020
 atccggagcg ccctacgaaa ttcaaaccgc ccgcctgggc cggccgtatg cgcctatcca 1080
 gactaaaagc atcgacccga tgagtcagac ctgaagccac aaataccgca tatcgaatag 1140
 gatcacgctc accaaggatc ctggtcctgg aatgtccgca attttttcca aagcgcaaag 1200
 ccttgatctg aaatggtcag cgaatgaagc aatgtcgtgg attcctcatt ctgggtcaaa 1260
 gcagcccact gattttcccg ctctttcgtg ggtgggctag tcacgggatc ctgccgtgca 1320
 tccgaaagat ggggtctgga acttccaggt tgattgataa cttattaact gaatttgagg 1380
 cgtaaacttg tagcgcagtg cctgtgcagg gtatagacta ggcagggctg gagctgcagc 1440
 ctgcaagcgt agaataggac gcctgtgatg atggagcatc aggctgaatg atcgtcctag 1500
 ctgtctggat ctaattctag ggatcgaaac gagaattgag aaggtcgcag aatcgaccct 1560
 cgtggctgat ttctaagccg caccatatgg ttttgcttcc taaaagcggc agtgggtgtg 1620
 aattgagagt attggctcct tcgggtcata gccaaataaga gcgggtcaatt tgggctgccg 1680
 ctctttcggc cgccaccggt gactgctgcc actgcatcgc catccctcc tctgctgcct 1740
 ctgcctcca cgtttctcag gcttcgtcat ttcgctccgat actgatcaga agagtggctc 1800
 ttogtttgtt tcgctgttca gccaaaccatc gacagctatc tgatgcacta gtctggtgtc 1860
 tctattcttt ttctgacctc atatctctcc ttgacccctc ttgcctgcag tctcatttct 1920
 tagcccgcc acttcactca aaaaagcgtc gattttttct ttgttctgct gctcggcatc 1980
 ctcagcggct gagaacagat atcgcttcac tttcttcttc gaatcgagtc gtcctatacc 2040
 aattctcggg cgtccttgac ggccgaatcg acgtcccaaa atcaccgggc ggagcatttg 2100
 cactgtcata gtcttagctg gcactgcaat ttgggtctggc cgtccacatt gagccagcaa 2160
 acgggtagga agcccgacta caccaccaat acgcttgcaa cctctcttcc aggaccgaac 2220

ctctatctta tegtttcctt ccttaagagc ttagtcaaac tgtacattat agcatatcca 2280
 taatggccga ctacaattct ttgtaccaac acggtcttta cctttcgctt gaccagcagg 2340
 acctcctctt agccgctctt tegtogaata atccgccctc gaagcagaaa caaacgcttc 2400
 agaagccgga gcttggtacg aatccgacca atactccagg tcaagcttcc acgggaagct 2460
 tcaatacctc tcttgcattc gacggttccc atcagttcga taatcttaac tatgatgaga 2520
 gcccttttct tgacttcaac cccgaactag aatgggactt tcccggatcc gagaacctga 2580
 ttggcgaact acctgggagt gcaacatcag acgatcacga ggtcggtgag aaacgcaagg 2640
 attcaaacag caatggcgag gtgaacggaa agaaaaggag ggagagtgat gacaagagtg 2700
 atgataaaac gtcgaagaag ccaggaagaa agcccctgac gtcagagcct acttcggtat 2760
 gtactggcgg tcaactggtga tagacatgac cactaatggt tcttcagaaa acgcaaggca 2820
 cagaatcgtg ctgcgcagag agcattccgt gagcgtaagg agaaacattt gaaggatctg 2880
 gaagcgaaag tggaggaact acagaaggca tctgacagtg ccaaccaaga aaatggcctc 2940
 ctcaaagctc aggtagagcg tctgcaagtt gaacttcgtg agtaccgcaa gcgcctttcc 3000
 tgggtgacac aagggaacgc gctctcggtt atcaactcat atccaggcaa tgccaaccgc 3060
 atgtctggac tcaataataa cgatttcatg ttcgatttcc cgaagtttgg ggatctccct 3120
 ggcgggccgta ttttcaatgg ttcagtggcc aagaccaatc aaaacaagaa agacgacacc 3180
 .cccataccg gcattctacg acattctgcc ctacaggcgg ctaacggcag ggcttcaagt 3240
 ttccgcttca cccaagacgg tcacatcgaa c 3271

<210> 2145
 <211> 1404
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2145

tcagtcahta caaatccac acacacacga agctcgtatc ttcaaatcg aggcgaaaag 60
 gttgacgaac cgtgccgagg cgcttcgtac ttccggtgac tctattcag acaaatgta 120
 attagcaatt gtccattgga gcaattttcg tttacttoga catcaaaata ctacatctt 180
 gaccctgttg tegttagttg tggagtggt gagtgagagt gtctatctcc aggtttggcc 240
 gcaagtccga ttttgcaacg cttacgagt gtgggcgcgcg tctaagcgag gagtcttggc 300

acttagccct gtttagctag cgcacaccta ttgtagcctt aggcatacaag tacgtgcccc 360
cctttgttaa cgttcaaatt tcccgccttc catttatgac tgcagttctt cgtccatata 420
tcgtgttcgt cttttctttc ctaagactta ctctccagct gcggttgtct gtgcaatttt 480
tactgaccta tgggtggaaac actcaatagc tgaaaatgat gattttgctt gtattgggag 540
cttaaacaca atcatagtcc caatcgtaca atacaacttt gggctgacct aagctaaact 600
accttaaggg ctaaaaaaca gcaagtgtag atgccaccgg agacagaaag ctaaaacata 660
aggggggatca aacacagtta gagaaagaaa tgggtggaggt gtaagcgaag gtagattggt 720
ttctcgtaac aagggcatca ttcagatctt caattgtgac tttgggtgtg atgttgcaac 780
gtcctccgac atgatgtgag tgagtgtgaa gttttacgca gctgtttccg acttgccaac 840
gccattgctg tttccattgg cgctgcctgc tgcgctgcca tggggactac ccttcgcagc 900
agccttctta tcctcttcgc catcgtcctc gtaatcctcg tctacatcca ttttacgtgc 960
agcaggctcg tgagctggag cttgttcagc ccgggcatgt tcctccttga cagatacttg 1020
aacctgaact tgagtagtag gaggaatagt ggcaggcccg ttagatggtg tgggagcgct 1080
ctcagccatc ggtggaaggg tgccaccgga agcatgttgc ggcattgtct gaattgaggg 1140
gagagttgga ggggtgtgag cggcttcgga aggatggtag ccttcattgg cccggcggtg 1200
atcctcacgg cgaacgtcgg accgttgcct ctgcctgga gaaggcaagc ggctaggaga 1260
tggaacgcga cggccgatct gctcatccag cctggagcgg ttttcttcac ttgcaagctt 1320
cttgactgga ccgtcagcct ccattcccg cccaogcttc atggccgaac cagggcggtc 1380
ttcacggtca cgcgcagagc ctca 1404

<210> 2146
<211> 3357
<212> DNA
<213> Aspergillus nidulans
<223> unsure at all n locations
<400> 2146

gatctaccga gcttcgtctt gatgacagtc tagcgcaagc tgctgacact cagcaaaagt 60
ggtgggcggg ttgatacacg gagttatccg ccatgcagcg aaaacttctc ggtacgcaga 120
ccagtaggtc atataaagga ctgttatect ctctggggag cgaaactctc ggcaagaggg 180
aaaccatcag acacagcaag aaggcctgat tttatgcagt actctctgac tagtcataat 240

cattataagg atgtctttct ggacctttgc accgaagccc aagaccccgt tggggatatca 300
tcgggtcctc tcgccaaccg cgggcgtaa agtgtcacct ctgtgcttgg ggggcatgaa 360
ctttggtgaa ggatggtacg ttgagttata cgccattggc tgagcggata ctaaatttat 420
ttgttcaggg agcactttat gggaaagtgc agtaaagacg atgcatttgc gctgatggat 480
gcgtttttata atatgggtgg caatttcatt gatacgtatg tgttctgaat cttctgcttc 540
ggggtaaaac gtgcacctga ccgtttatgt atagcgccaa caactatcaa gaaggcgact 600
ctgaaagggtg gattggagag tggatggaga gtcgtgggaa tcgggaccag attgtgtatg 660
cacacccatc agctttgaga attctggcac taaacgaatt ggaaaatgca gtcttgcgac 720
caaataaca actggttttc gtgaccagaa tattgacacc gaacgaattc agtccaattt 780
cgttggtaat tcggtcaaat cactccagac ttcggtcaaa cacagcttga gaaatctgcg 840
caccgattac attgacctgc tttatgtgca ctggtgggac ttcacatccg gtgtcgagga 900
ggtgatgcat ggcttgaacg ccctagtcac ggcgggcaag gtcctgtact tgggcgtgtc 960
agatacgccc gcctgggttg ttgtcaaagc gaacgagtac gcccgcgcta acggcctgcg 1020
gcccttctct gtctatcaag ggctctggaa tccgctgcgt cgcgacatgg agagtgagat 1080
tatcccaatg ttagagacc agggcatggg tatagccccg tggggtcctc ttgctcaggg 1140
aaagctcaag actgccaaag ctcggggagt aaaagggtga gcccgatcgg acggggacat 1200
gacggaggat gagatccgcg tgtcggatgc cttgatgaa gtcgcgaaga gcagaaatac 1260
cactctcgcg gctgtggtat gtgtaactag tatctagatc ctaacctgaa gagaactgac 1320
aatcgcaggc cttgcatat ctgctccaca agacaccata cgttttcccg atagtcgggc 1380
agaggaagat cgagcacctg aaagccaacg tgcaagctct tgagatcgag ctgaccaaag 1440
aagatatgga caagatcgat gcggccgtac cgttcgatcc tggtttccca atgagcttca 1500
tcttccctgg caaatacgat ttgacctta ctgctgccga tgttcccttg acgcggaagg 1560
ccggccatat cgatgcgccc cctcaacagg gaatagtgc cccaggaag atgtcccaga 1620
tatagatagc ttaggtcaat acctacagtc gctaccttcc atgtccgcat ggagcaaata 1680
tacaatcaat tgttctccga gtaaacaccg agggttaatc atgtgactat tgctgtaccg 1740
caagccgaag acggcctagc gccgcctagc tcccgaggtc ttcgcctcgg caatcgtcgg 1800
ccgcatccat gcttgaatta ttctgacatc agcagcacgt ccaagcagta cgtcgtacaa 1860

aggagaacga ttgacaagc ctaatTTTTT ggaggagccc gcatacaaga ggtatggctc 1920
 ccaagattgt tctttgaggt tccttctctt ccaatTTTTc ttgcgaattg cgaagtctga 1980
 accttcacct aatcggcgtt tgtaggcagg gtccgactgc cccgccctcc agaggaaatg 2040
 tcgcccgcag acagcgagtc cgcctacttc aacaactacc ctccacccaa agccctttcc 2100
 aaacatgaat cgctcgccag atcgtttata gagtaccatg tcgaatccag tcggcgcgta 2160
 gtactcgta cctccggagg aacaacggtt cctctcgaaa accaaactgt tcgcttcata 2220
 gacaacttct ctgcaggaac gcgaggagcg acatccgctg aatacttctt ggagcagggg 2280
 tatgcagtaa tcttcctgca ccgacagttt agtctgctgc cctattcccg gcattacagc 2340
 cactcgacga attgcttctt ggatttcatg gacgaggcgt ttccgagtga tgttagccgt 2400
 tcagatcatg gtcctatcgt ggtgcggaag gagtaccagg atgagatgcg cgacgtgctt 2460
 cgaaagtaca gatacgcgaa acagaacaat cttcttctgc tgcttccatt cacaacggtc 2520
 tccgagtacc ttttcgaact gcgcatgctc gccaaagtga tgaacccgct cggctccta 2580
 gcgctgttct acctcgccgc agcggttagt gactttttca tcccgcgcga ccgaatggca 2640
 gagcataaga tccaatctc cgaaatacca aaggagttcc aaggtaacga tgaagctgtg 2700
 ggtgccgatg acctttacac gggcggggtc gaacagaagc aggagtcgag caaaaagttg 2760
 gtcattaacc tagaccggt tcccaaattc ctccatcaac tcgtagatgg ctggtcaccg 2820
 gagggtagca tgatcggtc gttgaagctc gaaaccgatc ccaatctctt cgtctataag 2880
 gctcagacgg cgctccagcg gtacgcccac cacctagtta ttggaaattt gctttctacc 2940
 agaaaatggg aggttgtctt cgtcacaccg aaccacctt atgagcgtg gattcgagtt 3000
 cccaagtcgc gccggagtaa gagcatctcc ggcgctgaag accaggtggg caaggctgag 3060
 gcagcgaatc ggtcatcagg agaccagacc ttggcgggcc cagtgggtga agagccgtct 3120
 aaggaagaaa aggacggaga aggcacgtcc cgtgagggca cggagattga aagcttgatc 3180
 ataccagagc tagtcaaact gcattcggag atgatcgaga agttcaagcg atagtgaaca 3240
 ttactcattc tattttgtct agatacctg atatgccag tatngtatca ctagcaagct 3300
 catattcgct gttttttttt ctcaagagaa attcgatacc ctacatagat tcgtcac 3357

<210> 2147
 <211> 1782

<212> DNA
 <213> Aspergillus nidulans
 <400> 2147

```

ctcgacacct cctcgccata cgaccaaata tcattgtctg cgccggagca gtcggctggt 60
cctctggttt gggttcccga tccccatgta gtcgcattac gggacagaat gtggcccatt 120
gaaaccaacg gtaaacaact cgcggaaggc aggatcgtec gggtttccgc catggaagcc 180
cccaatgtct gtcgtccacc agggaattcc tgcaatgccc atatttaggc ccgccgagag 240
ctgattgcgg aacgacgacc acgacgaggc gatgtcgccg ctccagacga gagcgccgta 300
tttctggctt cctgcccagg cgcagcggag caggttgacg atgtttgtct gccctgcagt 360
ttgcatgcct tcatagaagg ctcgccata ctcttgga taagtgtttc cgatctgcat 420
gttctgccc gcgtggtagc ggtagatata aaagtcgtag atggagtatt cgggttctgc 480
ctcatcaagc cagaagatcc ggatgccttt atcgtagtag tgcgactttg ccttactcca 540
gacgaaggat cttgcggcgg gattcgtggc gtcaaagtgc gtgatgtcg cgtcgcattg 600
catggcgatg cggagaccgc ggtcgtggcg gatcaggagg cttttctcaa gcatctcagg 660
gtagttctct gaagctgttt cgacggttgg ccagatggag accatgagtt cgacgttcat 720
ctcttgcage tcctttacca tggcatctaa accgtcagtc ctcgcttgct cactataagg 780
aaaacctacc tggatcaggc cagaattcag ggtcaaactt ccactcgccc tgatgtttcc 840
agtgaagaa atcacacact ataacatcaa gaggaacctg ccgccgcttg tactccctcg 900
ccacattcaa caactgttcc tggttccagt accgcagctt gcactgccag aaccaagcc 960
catattctgg catcatcggc acataccctg tcacccgggc atacgcctcc tcaagttctg 1020
caggtgagtc acctgcaaca acccagtaat ccaatgcctt ggtcgagta gtttcgaaac 1080
tcatcgtatt tgtccccagc actgccctcc caatcgctgg gttattccac agaaacccat 1140
atccacgcga tgatagcgca aatggcacac tagcttgaga gtttcgatgc gcaagctcaa 1200
tgtcactccc tttcaaattc aggcttggt gctgggtactg gcccatcccg aagatcttct 1260
ctttagcatc gagcgactcg aaacgcatgg tgagatggaa atcgccgccg agaataggcc 1320
gcagctcgcg ggcttcaatc tccaaggcgc tgcatttcgg gtccgtcggg tcgctcggt 1380
gccgggcgta ctcttctagc agcttggtgc ctttggagtt gtaaattgta agcttgccgc 1440
gtttggtcac gacgccttta atcttgccg tgetgatcgt tgcttctccg ttcttgtcag 1500

```

agggaagctc aattgctgat ctgtcactct gaggtctgga tgaaagagcc cagttctctg 1560
 cgggcatggc cgcgagcttg gtggccctga cgcggagtgc attctcgctc cagggctcga 1620
 cccagagaag atgggtcatca aagcggaaga cgagcttgtc actgtcggag tagagcattg 1680
 ttaggcttcg ggagttgcaa ctgtggttga gacattctaa ataatgaggc gcgcggggga 1740
 agataaatac cgtttcaaca gcaacagctc agcatctgct gc 1782

<210> 2148
 <211> 3945
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2148

tcctcctctc tgacatcact gacaaacaaa cagaaatgca agcgtccaaa aatccccgac 60
 caaaaccctc caattggcct cctcaatctt tccacaccgt cctgatccgc aatctccaat 120
 tattggagct cgaccaactt gaagactggc ccggcattac accacgcact ctcttgccca 180
 cgtcccagaa ccagcgccag cgcgtcaaag ctattgaatg gatcttggtt cgattggctg 240
 cgctttggga tccagagaca gctcgcgatg taggtacagt cttccgctca taccgctgct 300
 cctgaagaac ccgaggagct gatggattga tgcccaccac attagaaact ccgtcctttc 360
 ttcccgccac tggagcctct gcaatctgtg aacctaaggc ctgccctcta ccgcattctg 420
 tctgatctaa aaaagaatgg agatctgggc cgcgagacca tcctccgcaa gtccatgctg 480
 gacgactgca agggcgagaa attcgacgag ctcttagctg tcttctctac taacgtgcta 540
 cggaggaaaa tctcaaccgc caatccggca atcgacttat cactgacctc cggcctgaca 600
 cggcaagaat acacgcgcct tctaccgctg attcttgctc atcgggcata gctgagtaca 660
 ctcagcgagc gccgagagcg tgttcgtgat acccatgaga agttctcgca gttgttgga 720
 agaaagaagg aggaactcga cccccggtcc gcaattgaca cccatgccat ccgagtacgg 780
 gacactgaaa tagaggctct tgcccacgag acgagagcta attggcaagg aagcgtggaa 840
 tgggttaacg ttctactcta cgggggtctt agtagcagcc gagacgcctt cttagagctc 900
 ccatttgata gtgcctggtc ccaagccatg gcatctacag ttgataaact ccgcaccacc 960
 gcaaccgcgt ctgatctgat actggatctc gagaccgag tctcgcgaca gcgagcacgt 1020
 ctacaacatt ggtgtcggta ctcagattca ctcaagcgtt caggactggc atcaccagca 1080

aagcctgcag ccacaaacaa gggccctcaa ttgatcttcc gggaccacca gaacctcacc 1140
attgccagca tctccaaggc agtacggcaa cctgttaacc gagggcctcc tgacgtcgac 1200
gatcaaaaca tctctgactc cctctcgaca gcaatggagc gtataaatgg cgtttcgaga 1260
cagcgacaga gctcgccgag ccccatctcc gggcttgagc cagagcccga accgaagaca 1320
tcaaggtcat atccacccat cgaaagacct gaagttatcg aaccacctac cggatccaac 1380
gcttccgact acattgacga agagtcgctc aaaaagagac acagggaaat attcacgctc 1440
acagaacgca cccgcagatc catgtccttt tttgaaggga tccccgagag cctccacaa 1500
gcggaaccaa acccgtcaa agattccaca aattcaagtc cagaagaaga accaccacaga 1560
gaatcctaca ccctagtga acgcacccgg aaatccatgt cctgcttcc tccaccccg 1620
gacctccgc gtccaccacg acaatctcgc aaatcccgc cctccttccc cgtaaataca 1680
ttcgagacgc ctcaaagcc ttcttacgat atcccagacc gcgcacgcac cccaagggat 1740
gagttattcg aggaacaggc tgattacgcg agtgtattca agtctaggcc gcgtattgcg 1800
ttaagtcttg ttgcgtcgcc agcagtgcac attaatccga ttgaggactt tgatcttagc 1860
gcggatggga atttcgggca aggccatacc aaagacgatt tgaatcacgc tgcactaggg 1920
tcgcctttgc gttcccgggg gcgatgggta tattgattgt ctgttttttag agcgtaatga 1980
aaccatttaa tacacgaacc acaagcctct agatatttag taagtcctac cccgtaacaa 2040
aacgccaggc aaatatccat atctcctcca agaaacctga actccgaact aagatttgat 2100
gaaaaattgc gtcctcccct aagtcttctc agaattccgc gtgcgtctgc gcttctgtgg 2160
tggaggggat atatcctccg tatactcttc cggatgatgat tctcttcaa gaacaggaga 2220
cccatctctg tacaatatcc tcgggattcg tcgcacaggg ggttttctca tttgcgctag 2280
ctgacctctg tcattgctat cattgtttcc atcgagaaga aatccaccgc ctcgcccgac 2340
gtctccggaa agcgactcat ttcggaaga gatattctgg acccgctcga caggcggctg 2400
tctcacttct atgatcagat caccatcatc agcatgatcg tctccgagga ggaatccgcc 2460
gccgcgatca gcttcttctt cttcttctc ttcacttaca aggcctgctg ggtgtgttct 2520
ttctgctggg gtctgagtgt ggctcgtgc gtgtgtcgat gccttccggc tagcgaaggg 2580
attatgcgca tcgggtagat ggccctctc atcctctgcg tattctctct gcacacgctg 2640
cgcaattcgg agcccgaaac agaacttacg ccaggtcgcg agaattctcg cttcagcttt 2700

tcgcgcttcc ttgcgtcggt tttcctcggt atcagcgcgc catgcatcca caacgagatc 2760
 cttattctcg gccgcgacaa caacgccctc gataacaggg acggccatct ggctgccgaa 2820
 ttcaaacccc gtcacagcct cggcgtagtc gatgcctagt ttcttgcaaa tacgcgcggt 2880
 accggagaag gggatgtgta ctgcaccctt agggaccatt cgcgggacga agcagtcgat 2940
 gttgccgtac tcattttttg gtataatgcc atctacgatg ggaggaggta tgatttcctg 3000
 cgtttgttca aaggagtaaa gaccctgaag gggtttctgg cctgtgcggc gggcttcttc 3060
 gtcgacttcg cgcttacgga ggagggtgac ggcgcggatg gggacgtggt tgaggggctt 3120
 cgctgagggt agtggctcgc ggccttcttt gtgccagctt tcggcggttt gacatttgac 3180
 tacatcagag cggcgataga cattttcagc tttggggctt tctgttggcg tagatgcacc 3240
 gttgccattg gcatttttct tcttgcccc tggggtaaag gtgcggacag gcagagcgcc 3300
 tggcctgaga gcttcctcac ggcggagaaa gcgctccaga acgaactcgg aggatgtacg 3360
 taagctctgt agagtgtcaa ctgtttcatt agttggcttg ctttttgctg gccgggtggg 3420
 aaccagatct ttagcatctt caatgtcgtc cacggcagtg cggtccttat atggacgttc 3480
 ataattgcgt agaaggaccc gaaaccaatc taacagatcg tcgtcaggcc ctttcttccc 3540
 cagtcggaag cccttgggtc ttccaggcca ggtccgcctc cgcagatacc gagttgtgac 3600
 atcctttgctg gtcttgtcgg ctgagaatgc aatgacgtaa caaattacct gcttagcctt 3660
 ctcagcttta gcgccgcgcg gttcaaaagc tgcttggagc tcttgggtag ctgccacggc 3720
 attggagagc accagaggat cgacggagat gacttgatgc gtgattggag atactacctc 3780
 ggtccagtag attgaaaag gaaggtcctg gtcgtaccgt ggcgcacgtt acggccacga 3840
 gaggaaggct gagcgtcctc ttcttcatca ctatcaggaa aaccatcccc atctgattct 3900
 agatttgtat gcttcggctt tgtttttgac tttggagagg tatgg 3945

<210> 2149
 <211> 3894
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2149

ccctgcaatg taaattatat agaggatgag aacaaaggat ggtcgcagtg taagccctcc 60
 tcaacaaagt agccatgttt gctacattgt ccaggaggga tcagtctttg gccaccttgc 120

gttgacttaa gtttttacag agggcaagtc atagttcagc tcattctaga acatagtgga 180
 agtaagttca atgaataagt tggcttggtc tatgatattg aatcgtgaat tcatattatc 240
 ctttgaaaat ggagccctct agacggcaaa cgaccagata tgtcattagt gcctcactac 300
 aacagacgct acattcaaac ctagctgcc a gccagggtca atggacctca attgggtcaaa 360
 taaggtcatt tttctgcgcc aatcgcagta ggtatattgt tgcattccaaa agatcacagc 420
 cacagccaga gacagcccat catggaagaa caggcagaat ccataacagt cttgcacaga 480
 ctctcctaaa ctcttgatc gggatcccat gtcttaacgc aacttcatct actttcgccc 540
 tctttctggg gttaaccacc tccctcacgg acctccaatc gtgtttccca gcgcaatatg 600
 ctgccacgcy atagaatccc caccgtgacg tgaatttgct cagcatataa atctttgcga 660
 atccattgta tgctcgtgac caggatgggt gaaaaggaat tgagaacccc tegtgtcggg 720
 cgcgggataa agtgaatagt atgtctgagg tctcgtgag tcggcctagg ggcgttggtg 780
 ccttgcgcca ctccaagagc tcttcggcta ggcggtttt atgccaggaa agttccgggt 840
 tgcgggagag gccaagaaca gtatgccatt ttttgagaaa ggtggacatt ctgagggtgc 900
 ccatcggcgt tttagggttg attgaatttg atctggactt ttgtaactga ctgctgttgg 960
 atgatggaaa ggaagacact tcaagtcacg tagatggcgg cttctatcaa attgatctta 1020
 gtttatcagt caggacatca tggactgtgg gaagtggtag aaataaacca gctaggacct 1080
 aatgtcccat atggggagat gcaaacggcc cagatcctgt acctccagta agtaagcaat 1140
 ctttatacaa agcaccaacc gccctagccc ttgacttcgc tcaatatcac catcttagta 1200
 tacgatctag atgtccatct aataggaaga acaactatat gaccgcgcac aatagcctcg 1260
 caccatggag tcacgagtgg taaacttccc gaggtagaag agccagtgag tacttgga 1320
 ggcacgcga cagcaccaac atttcgattt ctttacgacc atctaactgt gtagctggaa 1380
 ggtagcaata gaagtaagga aactttcaga ctcatcacgt atttatatgt agtagtttgt 1440
 atagatgcga gtcattgat atggcggtga ggccaccag cggtgagtaa atagacctcc 1500
 aacgaaccaa caacaatcct ttgacaagtc atattggtat cgcatttctg taccocggac 1560
 ggtaaactct gcctgacgca tccaatatgc aggctggaat ctcagggtgc ttcctcccc 1620
 gttgcatgct tcagacaaga tgccagcaat gaagccaact ccgccccgcc gtaccaact 1680
 gaagttccag cataagccc agcagccaca aaaatgcata tcatgagttt atctgactgt 1740

ataaagtctc ccaagagctc cacgatgcct tctcccgttc gcgtctgata cctctatctt 1800
 ctgtctcccc gtgacaatca gccgcggagc gcctaacccc gctttcaacg ccccccttct 1860
 ccggcttttg agagaacgcg ttctacgcct cactgtcaca gctaacttct gtgttgagc 1920
 caaagacgcc tatttacctg ttaatccgcc ggactggatc taatctgatt gccttaacgt 1980
 acattccctc caacgctggg gtgcgtgcaa agactctctt cgcgtctaca cgggcgacgc 2040
 tggtagagga attgggaagc gagaagttca gtgagacaat cttcgccaca gacgaggagg 2100
 aagtcacgag agagaatgca tggaaggagc gggaggcaga gaagaacggg acttccactg 2160
 gcggttatag aaggaggat ctaatgggag aaaaggaaag ggaattggaa gctgtgcgga 2220
 gggcgagga ggctgcaagg agtgggactc caggaggga tattgggacg ggtggaacgt 2280
 ttgcgagagg tcttctagg atgaaaattg aaatgcaagt ggacgaggat gcgaagaatg 2340
 ctctaggggg gctgcagcag ggtggacttg tgcagatggt gagtttgaca agatatattc 2400
 aattgcactg tgcgttgatt aaaagctaatt gttgttctaa taacaggcca ttgacgtttc 2460
 aacggagaca ttcaagctca ctgcggctga gtctggagtt gacgccaatt ccgtccagaa 2520
 tcacatctct gtttctcac cgagatacac gttctaccac tatcccgact ccgacaccat 2580
 catcttcac tatacctgtc catcaggctc gtcaatcaag gagcggatgc tgtacgctag 2640
 ttcccgatg catgcgctcc aggtggcgga agaacagggt ctgaagattc tgaaaaaggt 2700
 acggcggtt gacgaatgac agaccgggaa ctaacaaaga aatggcagat tgaggccggg 2760
 gcgcccagc aagttacagg cgaacgcctt caggaagaag tgaaccccc gcagaacaac 2820
 ggtctcaggc aagggttcgc aaagcccaga cgcccgggga ggtagatgtt gaccgccgct 2880
 ctctagcaag tcctggggga ttgatccggg cttcagcgta agagatatcg tacacatata 2940
 tccgtagcca agattcattg ccgttcttag atttcaccag taaccgccgg taagagcagc 3000
 gataatacca gccagggcc gacagctctc cgcaccaggg acccaatagc gtaagcaggt 3060
 cgaaccgcc tcatcaatga tttcgaaac tctttttttg ataaaataaa tccgtcctcg 3120
 aacttcccaa gtttataatc ttcgacatc cgtctcggtc tttctctagg cgcgtacatt 3180
 cgaagcagta gaatgcatca ctgattccct cgccaccaca aacgatacac ttgttctggt 3240
 agttgccgaa ggagcattcg tcgcagatgc ggaccagagt agtaggacgc acgtaggagt 3300
 cacacacagg acacttccca tcgcatttgt cgcatagacg gccaatggag atgccaggtt 3360

gcttgctggca cataacgaga tcgggatgat ggcgcgacat gttgctgaaa agaggttgaa 3420
 cggagtgcga aaagggagtt gagctcgata gcgaaggtac cggagatttg aacggttcta 3480
 ataataaata tacctggaag cgacaagtct ttagagcaac cggtcgaagc tgggtgaaag 3540
 cgaaagagag ctccggagaga agctgggaac gggcatgacc tttccaagt ttctgccggc 3600
 ggtggttggc ccgtgcacgg gagtctggct ctgcggctct atcgcgacag catgtctccg 3660
 attcacatat gtaatactat tgctcctgct tgtacgggtt agacgcgtct catctatcgt 3720
 acaatactca gtacaagtgc tttgcatact taccttgcca ttgccaata ttgtgcatcc 3780
 gtttgcagc ggtctcggac ccggccataa ccagacagac tcacgctcac catggcagaa 3840
 gggtgaagcgt tttctttcca ttatcttact gtcgcacatt ccagtagcta attg 3894

<210> 2150
 <211> 3993
 <212> DNA
 <213> Aspergillus nidulans

<400> 2150

ccgcttccgt tgttgaactt atgatccaac ttagaagaca cttgttatcc tagcaatctc 60
 agaaatctca gaaatacgca gtctccaact tcacgcaggt tgcggcttcc taaattgagc 120
 gggccagtcg gtcaaacggc tgaaccatgg ttgactttgc tagtgtgcca gactttgggt 180
 taccgcgtta ttctcctctc tttctctctc cccctcaccg acaagaaggc ctagctcgat 240
 cctcccgcca attcgctgct ctgccaagtg cccttggacg tcttgctggc gagttattcg 300
 ccaactcgca agaccgaaac caagacaccc agaattacac ccgcgctttc aggccctgat 360
 tttccgggta tgcaaggaaac ttcaagtcag gcacccgtct cgacccatgc ccgtgcatgc 420
 tcatatcaga tttctggccg ttgcaaagaa caaagcgatc ctacaagcct cgaggatctc 480
 agagcctcga gggctgcacc catactctgc gggctcaaga gtacggctcg actccccttg 540
 cttgccatgc aaggattctt ccaagaatcg ccgctgcaag gcaggctcaa aagctacttc 600
 agaacctgga gtccccgaac atagccgact tgccaacaaa tcggtggaac cgcaagggca 660
 aatggcgctg acgaatacaa agtcgcagat tcagtgcgtc gtcaatgtgc aatgtcttcc 720
 ggaaaattct ctcatctggc attggcaaag gccgattgtc tgttatcgct gcgggtcaaa 780
 agtccgctgc gtcttgacat ctaaatoctt attgtatgtc tactctgttc cctcgatatc 840

ggactgcacg caaggaggaa gttactacgg tcaactgcaac gctaggcggc gcctcgacgg 900
 atcgtctacg gccagatat tgggtatgaa ctcaacaaca tttggctgag agcaatcata 960
 tcatctaccg tggtagtcgg ccgctcgacc gctgactcga accgcctgga cccatgacaa 1020
 aggaccgccc cgaaccaa atcagcactaa taaccgggtg gaacggactg cgtttggcag 1080
 aaccatggta gaagtctcgc actggaccga agtaccgaat tattggatcc gccgctgtta 1140
 aaagcttcca gtgtctcggg gcacgctcgg ccccggtgac tctatgcggg gtcccatacg 1200
 accaacacag tacgtaacgc cattggcatc aaccagggtta tggctctggt taaatcggga 1260
 gatgatcctg actatcgacg acacagcgag cactagaaag tgtgcttcca cctcagtcac 1320
 cggtcctggt tactggctga gctcgtctgg gactaccgaa catctcgccg tctgctcgaa 1380
 cagacaacca aacaccgaca ccgggacggc caattcccag tactgagact aaaggatctt 1440
 ggtcttggtg gcaaattaag tgcgcacgaa gtttcttctc ctcggttaat gattctgact 1500
 ttgtcttctt ttaggtccag cctgtttcac ctctccgcc gtatagtagc tgcgtcgac 1560
 aatcaggcga atgttcgatt atacactccc attggctccc gatacatgca agacagccaa 1620
 tagaggggcg ttcgacatga ggatggacgg gaagattggt caatcagcgt cagaaaaccc 1680
 tgcttagcac taaagtcaga gacgatccag aagcgggaga ggggcggagg ggcagagggg 1740
 cagaggggtcc ggctacgggt accagtgcta cagtcctggg atcgggtgac gaagacgtta 1800
 caggctgcag cagcgatcga aggaaatata aaaatagaaa aaaaagaaaa ataaaacaaa 1860
 aaataaaaaat aaaagaaaaa gaaaagagca gggaagagga tcagaaaatc agaaatcaga 1920
 aatcagaaaa ttacgtaggt gcgctcaaaa ataccgaaca tgctttagcg cgactcggcc 1980
 ggttcgaatt tctcggctcg aacttttgaa gtttgacgct gaaaagaagc atcgcggggac 2040
 ggtgaagggt ccgagcctac caatcacacc ggctgcagag agtctgctga catgcattgc 2100
 ttactacggt ccacggagta ctctgccct ttggattggt tgctgtcgta atcgtccatt 2160
 accctacgca gagttgctcg atccaagcg agcagatgag gtctggagct atcatcgatt 2220
 caggcaactg acacgactct acccggccc tccagcacia atgaagaacg agcgggtccat 2280
 tgagactggg ataatcctat cagatgctgt cgttctatc agtatcccct ggcgatactc 2340
 cctggatgga ggacctagaa acatccagta acggggtaac ccgtgaccag ccacgcttat 2400
 cgtgtgactc gaatccccag aatccggctt cagcacagga cttgtgccgg gccctaattc 2460

gacggtcgca caatgatgcg accgacaagg gggcgctcgt ctcttgaaa tgcaggtgcc 2520
tgtgactcct gtcaaaagtc ggcccgtcag ggcattgggc aaccacaccg cacctcgacc 2580
aacccccgct agtgaaatta attgtcgccc tcccatgcc aaggcgcccc caccgttccc 2640
gccaatctaa tgcataagt gtatcgctgc cgtcgcaagt cgcaaccttg gatgctgaac 2700
ccctgctagc tttagagctt catctctcga ccgtgtaccg tccgactacc gctcactcct 2760
cgtaggtcta ttatTTTTat tggactggct cccgtctgtg gctggcgaac catgcttgac 2820
taacgcccct gtaccgcttg cctcaccccc ttgctctcgt cgctccgcat ggactcgcca 2880
aagcgatctt cagggcgctc gcattgggtc cttgcctgaa gcaaggtgtc ctgtttcgtt 2940
tcgcggtgtt gttgtagtag tagtagtagt agtagtagta gtgagtggta gtgagtggta 3000
gtcagtggta gtagagtggc agtctaccag cagtcttgcg caagaccaga ttgcaacgca 3060
cgactgcagg tcgacaaact ggcaggcaaa ctcggtgtgc tacgctcgtg cgaattgata 3120
tcaggcaaac ccggccgctt gcacatggcg agtccaccg agctcagtgc attagcctcg 3180
cttcgtcaca ttgattattg ttgttattat tatattatta ccatgactct ttgggtctgta 3240
gcgtcaatga cttggacctt ccataccata ccgaacgggt ccggaacgcg gctcatacgg 3300
taataccgta atcaaacggc ttcttttttc tgccaggctc agaaaattgc cacttttttc 3360
gatcccaacc ggctcggtgc agccgtccgt cttccgctg cggcaccaga acccaccggc 3420
cagtgcggcc acaatcacct gcgttgctgg cctgttggtg ggctgagggc tctgcgcttt 3480
tcctcaggtt tccttgctcc agtccttggc cttgctccac cgcgactcc aactccctt 3540
caccgccagc cctgagtctg agagcactac cgcattctgc ggtgagtcgt gaccacaaag 3600
ttcaaactca acgtgcgtt aaggcctcca gccttctctt ttagccagct attcgccctt 3660
agtcgatggg ccgtcgcgct gcgtgcataa tctgctgcag gctactgacc gcatgcgctt 3720
ggatcctgag agcgacacta agcgacggac cgtgactcag gagcgctcct ttacgtgcc 3780
agactctttc tgggaaatct gagtctgcca atctaacggc atgtttgtca gcgctggcg 3840
gtacgacggg acagctgaac ggacacgcta tttaccact actgtcgaac tagcggacta 3900
gtcgactgcc caggtgccta gcgtgggct accccaacga cgcagggcaa gccaaactga 3960
cgaagcatgc cgctgtgat cagcagtaac ccc 3993

<210> 2151
 <211> 4229
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2151

```

gcatatagtc aataaccgca cgaagagcgc cccagccaa catctcacta gatcagccgc 60
tccctgtggt gccacagcct gagttggata gagatcaatg aggagcgtgt atatgattcc 120
cagcagggga gttccgctca gaccgatgag ccctgcagt gccaatgcgg ccgcaagaga 180
ctggcggggt tggacgatcc agccgtatgt gattagcgac aaggaagcca ggagcgcaaa 240
aggcgtctgc acttggagcc tggcaacttc gtacggaaag tcggcgtctg ccggtttatg 300
tacgtcggca tccttttagtg cctgggcctg atgtctctgg atcctgcggt agttgatatc 360
gagcagcctt ccgccaatta ttgaccaat gcaaccggca attccgtaag ggctattagg 420
gcaatgccgt cagcaatggt ctatttattt tctcagaaat gagcgagggg ttgcttacag 480
atatgagaac ccgaccgata gcgtatcaag gccgtacaga ctgctataat aactcccggt 540
ggttgcccac atggctgtga cggccgagta gaatagactg gtgaatacga cgaggatcaa 600
ggcgtccttt tcagcaagga tggatgaatgc ccttagtacc tccgcagcac caatgcgtct 660
ctgcggcgag gccgtgagcg gccgtgctgt gtgcctgagc gcttgaatc cgaaccgcgt 720
tgcaaagatc gctggatggt ctgcaccaca gtccgcctcc accagcctgc tggctcgata 780
gagccattcc caacgatact gcgagcagtc tcggggatga taaagatgta cgcaagcaga 840
gccgcaccgc tgccgatggc caggaaccaa aatatgctcc tccacccaaa actcggcgcc 900
aaaaggcccc cgatcacggg accaaatgca aacgcgcccc taacactccc ctgtaacgga 960
ccaatatatc ggctcttttc cgcgggagac gagatatccg ctgcaacagc gaatccgaat 1020
ggaatggcgc agctgctgcc cagactctgt aagcatcgga ggacgatgag ggctatgtag 1080
ctgtcctggg ccgcgagccc gatgttgccc accgtataga gcgcgagcgt gaacatccac 1140
gctatgcggc gtccttgag atcagaaaagc gaggacatca gcgctggcgt gatgccctgg 1200
acgagcgaga agacggtgac gagcaggttc atctgcgtcg tggtcacgcc gtactcagct 1260
tgcaggatgg gcaggacggg gagcacgatg ttcggtgcaa tcatggtgat aaccatggcg 1320
atgctcgtca gactgatgat gaagactttc ccatgggtgc ttgtaacaca gtaaggctca 1380
gacaccgcag tcacagtggc tgacgtgca gcctttttgg tgccggactg gtggccatga 1440

```


acggccggct ggctggacag gttgtcatca tcaagcacat gcatattgac gtggatattg 1500
 gtgttaatag ttggttcctg gcgtcccgct gtggagctgg gtttcctgca tttctttcaa 1560
 ctgcataagg gccaggcag cttgctaata taggcattcg aaagcatttt ttgctgacga 1620
 accttgcccc tgggaattgg gcgcgaaaaa aaaaaataa aataaaataa aataaaattt 1680
 ttactcctgt aacttagcca ttggatagac gttccatggg tgcaatcggc ttagtctcgg 1740
 ggtacctgat attgccgttt ccggccggca gatatacggg tccaaagcat attacttgga 1800
 tttgtcgcat ggtcgccact cattaagctc aaatttgtgg acacaatcgg gacgtgag 1860
 cttttccac gcgggccaac ggaccctgg gagattcccg tccagcaatg aagccatcca 1920
 tgggtagcaa tgccttgtgg tgtccaggta tatacagtgc gtcctaaatg tcggcttgac 1980
 gcgagatagc ttgctgatag agcatcaacc atttaagtat gccaatcct catcgtagc 2040
 cttacaata ttgaagagct acagaagcct gccatcaggg agcctcaggg cagatagtaa 2100
 actgccatca gcatttaggg ctacgcccatt atggcgtaag aattagcact cattaggctg 2160
 tctctggcct acttctaggc gcaactgttct tagtgtaatc ttctccaga ttcttaagat 2220
 taataatata tgctatgatt gacttctaaa tgccccttga agctcggtaa caatatagta 2280
 tccaagcaag ttacctaac tatatctgta tagcggtacg ggagctacct tgccgggtacc 2340
 gagctataca gcgggctagt atatataagc gtctgggagg ggtaccacga gatcaccacc 2400
 aggaatcctg acgaataagt cctatactga taatctttgt gaaattgggtg tatatatattg 2460
 tgaataatag catctaacct aagagaacaa tgaaatacga cccatcataa tgcgagaata 2520
 ccaattaagt catgtagagt tgacggcaga cgggtcaaag aagtgcgctt tgccgcatgt 2580
 ttgaatgatt cagggtgggag agcatccagc caggcctatt attatttgat tgtcgtaagc 2640
 ttctgagtgg gcagctgaat gaatggttcg gtccaagagg gccattcggg aaacgggtatg 2700
 gtgggtatgg ctaccttgcc tgggcgaggc tcaggttcat gctgctccct acttgatcta 2760
 accgatcctt gaggctcagg taggctaact tcaaatgagt cagatttttg attatcattg 2820
 ccaaattggc gttaagccag agatcctgga gctatccata gagatcgcat aataatgcat 2880
 agcccgacgc ggcattcaaca ccgcctaaca aggataatta catatagcca agcaaaaagg 2940
 tgcaagatgt gaagcaacta cgtcattcat agtgtgggat tgatcgaacc agtatctcaa 3000
 gcaatgctcc tgccgaacac tgcctcattg cgtatgacag cagacgaggt cggggcaata 3060

tacttcgacg aacgcgaatc actacaaatg taactacgaa tcagaaaaac cacattgagg 3120
taaggatcgt taattcgtac ttgcgccaat cgggctgaaa aaaaagattg tatgtataca 3180
tcgacgaacg gggttgtagt atgcgattta catcaaaaga caggcgacat caatcattat 3240
gtaccaatgt accaatgctc actcataatc tccgttcttc agagattgga ttaattttat 3300
cgcgatatgt gctggaaata acatgctgcg gctgtcgtgc actcagactc gctttacagg 3360
gcagcaacaa cgcccatgac gcccatgatt ccggcaacgc ccatgaatgg ggtcgcgtag 3420
gcggcgacat cgtcggaatc ggtcggctca gactcatcgc cgctctgcgt ggcgctcgca 3480
tcgtccgtcg cagaagtggg gatttccgta gtggtcgtgg tggccgagcc atcactgccg 3540
gtagtgggtg tctccacagt ggtcgtcaca ctgtcggtcg ccgaagtggg cgcatcactg 3600
acggacgacg agatactgtc gagagccgac gagacgtctg atgtcgcctg agagaagaga 3660
ctctcaccga cagaggtggc agagctccag gcagactcag cgtccgtcga ggcacgggc 3720
gcccacgagg aggcgtcgga agcgacagat tcagcccagg aagagacgtc ggtcgggagg 3780
ttggtgaggg agtcggtggc ggacgcaaag tcggtcgaga tggcgggtgcc gacatcctcg 3840
gcacccgagg tgacgttgtc aacaatatcg ccgatgttgt caccgagcga gttgtcgttg 3900
ttgttgctct gggcgcgcg cagcgcgggc aggaaaagag tggagaggag gagcttcatt 3960
ttgtatgtga tgtgttggtg tgattgtttt gggtatagac ggggtggatat gaatgcgata 4020
tatgaattcg atcttagact ctgattagat atgcgatagg tataggaata cgatatgata 4080
aagccgaaga ggaaggggac cggcttataa ggggaaggaa aactgcgcc actgccctgc 4140
ctgccctggc cgggggccct gaccagtgcc tgccatccta aacagcccca gtggaccctg 4200
gcaacgtcag cccaaccgaa actcagcgg 4229

<210> 2152
<211> 2218
<212> DNA
<213> *Aspergillus nidulans*

<400> 2152

atcttgtaac tgccgcgaaa taacggagca tgaattacat tgtaagctat ctatattata 60
tgacagcgaa ggatcttcct aggcgcgacg cgtgcgggga atgcgggtgc ccgtgcgggt 120
ctgactcggc cattctgagg tttggtctat ggataaagat atgattgggc gggctatatt 180

atttaattag gtactctcaa tcagtgtccc ttgtatatgt gaaccgaaag caaaaacatg 240
 tgatagtcag tcttctcttg ggaccgtagg aatagtcaca ggcggttcct aacaaatgga 300
 gctaacccta acttgcatca tgctgcatac ataacagcca tcgttttcat aaatcactag 360
 gaacgtaata attataggta cctagaatgc ttgtacagtc taccaggcat tgttctgctt 420
 tgcccgttac aacagattac gccaggccca acccatccac ctgcatatca agatccatcc 480
 cagggttaac caccggaggg ggggcccact ccccaaagta atcgtgcacc cacgacgata 540
 tcaacgggtc aaatccctgt gctaggtgtt ggaggttgat tctgtcaaaa tctgtcactc 600
 cctggttaat ggcttgtgcg ttggcgctcg gctcgatgta gaggtagtcg agattgatct 660
 gatcttgctc gggctggggc tgaaagttct cggtaggttg acgcgagctt gtgagaagag 720
 gaaaagaaaa atccgtccca gtgcctgtg ccggcatttt catgttgatg ttcgtgctgg 780
 tgttcatgtt cgtctggacc gaaacatcat ctggcagagt ccggacatcg tgatcataat 840
 cgttgccccg ctctgccctt aagccaaatg cacttcttgg cgtcccagcc tggagatacg 900
 gcgaactatc tctccttgta ttgttcatct ccacggcat ttttatccgc ggggtagcac 960
 cctcgatcgt ccaaggaagc ctaatcgcca ttccaatcg cgggatacac ctcaccagct 1020
 ccggcagcgc attatcgtat ggcaagcggc cgactgcaag actataatcc acacttgctg 1080
 atataagaag gtatgcgcgg ggaaaccgaa ggaatgcttc gtgccatgtg tttgcccttc 1140
 cgcaccccat tcccgtgtaa gacgacttat ccacctccaa gccagccgag gccgaggccg 1200
 agggtagagag gtcttgtgga gggctggggc tagaactggg actcgagctg gaagcagagt 1260
 tagagctggc agttgacctg cttctctcgg gcatacgggt ctggtggcca ccattctcgt 1320
 cccaccgcag gaaaagatgc tgtgaggtaa tataagccag acgtaaaata tgattcgttc 1380
 ccgcggtcac aaagtcggtg acatcgtaaa cgcgccctga atgccgaacg atctcaccga 1440
 gtgcatcgag tcgtctccgg cgacgcacca tttctgccga cgtcggagag agcttgaggt 1500
 cgattgccgt gaggacaaga ggcatcgcta cgtaggcgag cctatgaaca tcttagttgg 1560
 cgcacaactg tcaaggagtg cggaaggggt ggtgaaagac ttacacactc agaggtagat 1620
 tctgcgcgcg tccctctcgt ccaaaatatt ccattatggc ggtagcttt gccattgcgt 1680
 ctcgtagagt attgcctgct gagaagagat ggttgaagta gtttttgccg ctgaacagag 1740
 ggtggttctc gagcagcagc gcttcgtagt gggctaggtc aatccgggca gtcctataac 1800

atttattcgt taaccagctg tccttagact ccggtaaaaa gtgtgaggga gacgcactgg 1860
 tagtacatat aagtgaaatt cacgaaaagc attactgcct caggggcctt ctcttttcca 1920
 ttccctttcc cttcgatccc tatccactgg ttcaaagacg aacactgctc ccacctgccc 1980
 attgcattct ttgtcctggg aatcttgatt agttcctcgt ggaactgctc gaggtcaag 2040
 ctcgggggcg caatcccatg gctcgcgaag acaaaggtaa tcatttcgga aagcaatata 2100
 gcgagtcgac attgctcctg cagaaccttt aacagcattc gtttgatctc aagactgtag 2160
 acgagcgaat caacaatctc gtctgcgaaa tccgcttgct aggaagctcc ggctactt 2218

<210> 2153
 <211> 1056
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2153

aagccatggt ctctaagatc tcgaacggtt ggaccatctg gtcgcagctg gggcgacaat 60
 ttactgcatt cagtgtcaat gttactgtag tcgagatcta ctggtatgta tttctgtcgg 120
 tcctcttact atcttgacaa tccatttact tttgtgcagg gtcgtcctcc tcctctccca 180
 gatcttttac ctgttccagc tcttcaacaa agacactgcg atcgtagctc tagcaggaaa 240
 ttcagcggcg cacttcatcc tgaacaacct ctctgttggt gcgtggatcc tcctctggac 300
 gagaaaccac ttctggcccg ccgagatcat tgtgatcgcg cacattatca accagcatct 360
 cctgtttctgg cgcattcgca atctgccacc gatttcgcat atcgcggttg tcgcaggccc 420
 atatgcctgg acattgatta cgctcttctg gacaggagct gctgccgtca ggtctcataa 480
 tttggcctcg aatatcgccg cgaacatctt cctctggatt atctttttga tcggctccat 540
 tcacatcttt ttggctgtcg atgatctcct ggggtacagt ctgagtctgt tgaccttcgg 600
 tatgtttcat gtgaagccct cgcgtagtca ttcaccgtcc caaattagat gctgatttca 660
 tgtttgattg caggcctggc cgtggcccaa actagtcgca agagccatct tcactctgag 720
 tggatctttg catgggtcat ctttggagtc ttcttgctgg actcactcta tgtgacctcc 780
 gccaaagtacg ttggtcgtaa tgtgttggtc cggagcccgga gagagccaga gtcgagtgat 840
 gctgagcgcg ccccttctgt taatgacgct acggcacctg catcgacctc ttagattgcc 900
 ccagtggtctt aaatggagcg acgagtgggt tgatgagatg gattcagatg agagccagat 960

gagagtcaat taagagatgg tggagacaag gaataacgta cggcacgcta aacgggggtca 1020
 tggttttcga ggataggata tggttgtcgt gtaagc 1056

<210> 2154
 <211> 2299
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2154

gtttctctc tggcaagcct atatatcccg aagtagccac ggctcgatgc tacgtaaggc 60
 cctggcggaa aaactcgggc acagcaagac acttgagtta ttttcctttt tgcttccttt 120
 tttctctatt ttcgctgtat ttaacaaggc aagtgtgca gacttgccat cgcaccgtcg 180
 atcccgtgc agaggtacag actactcaag actactcaag gctactcgag gctaccaag 240
 gctactcaaa gactattctg ggtactgagt gcaggccaga tccacagtaa tcagcatacg 300
 tcgagtataa ctccgaagac caatggacga tcggtgctaa tctacttcaa acatccttat 360
 cgatctggac gctggctagc tggctacagt cgcgccgggc tacagtcgat ctgcggtgcc 420
 ccaacactag aaaattgaat gagtctttcc acctatactt caccgcgct taaaaagttc 480
 actataagaa tggcgggtctc gataccgaaa ccgtacggac cgtacggacc gtacagccgt 540
 acggctgtat ggtcgatacg gggccgcggc cacattttgg aacgccaacc acaccataac 600
 cttgatcccc gcacctgcgt tgtaattggc caggcctgga aggggcatcc ttacttgatt 660
 ctctatgggtg cagaattagc gcgcagcgtt gagtgacttg cattagacag gccagtcaca 720
 gctgtccatt tcgattcatg actccatgtg gacacaagcg tccatccaga agcattccaa 780
 cttgctcgct gtcgttgctc gtccctgggtgc tgggtccaggg cctgtgcctt cagcattggc 840
 aatctcgtaa gaagacatac tccgtttctaa tgacgcgccg ggcccgcgag attaggccca 900
 aaaggaagga agctcattct aatatgcaat ggggacgggtg catgatcgtc agctctttat 960
 ggcaacaact atgacatgga ctgctccaaa tcggtttcac ttgagaagca gtagtctatg 1020
 acgattgaac ggcacaaagc actcgacagg tgctggggcac cgggcgtcaa cgagcccact 1080
 ccgttgtctc aggggcccgt cacagtctgt acagagtaga ctgcggagta tttgtcctgc 1140
 aggggtatact ccacccaaat atagaccggg atctacgtac ccaagaagct cgttgagctg 1200
 cagacgtagc tgcaagagct caagcttacc aacagaacac ctgtcaacca gttcgttccc 1260

atctccgcac gatggggccaa cgtcgcagcg ctgcagtggg atgcagttat ccgcaaatac 1320
 tggatctacg ccacattatc actatcatta tctcccttgc catggtgaca ctctgcaaca 1380
 ccttcogtct ccaattcccc gttcttttgc ggcccaagag ggtagtgggc ctttgttcct 1440
 cctcaattgg acgacgggga cgggtgctaa tgcagtcgag ctggagcttg ccggcccggc 1500
 atacattagc gcatcttata tatcagtcac gttacgttta tcacatcagt ttcacagttt 1560
 cacctagtat ggcacgaccg tacaaccgtt tgactacacc cacctaggct gctagccgtt 1620
 ctgcatagtt acagggcatt cgtcatatca ggatcgacgg gcaggaattt gggttgctg 1680
 agctgtcgat tatcagtctg gatcttttgc gtggcggttac actggacggg gtacgcagag 1740
 cgcagtagga cagcgacgga gtcgcggatc ggatcgtcac ttggtatgta acaagtgaca 1800
 tgtcacctgc gagatatcgg aagagagaac gtgatctgca gactacattc aaacttggga 1860
 tcatgtattc ctgtctattg gggatcgctg aggaaattct taccgacatt gattcccagc 1920
 gcgaagtcct gatgtatgat gtcagggccg ttatcattat gcatttacac agacacgtgc 1980
 gttcgaacat gaagctttat cagctccatt ctacgcccac gtatgtcagg tagcttgcgt 2040
 attagttctt ggattggtgg ggccatatac tggagaaaac gacccttact tatccggttt 2100
 cgaggaactt gtaggctaga gtacatggat gagtagttag ggctctgggt cctgctttgg 2160
 atagcttaag gctgaattaa ggaaaccag tgctacgaac ccgaacggct cttgaatagg 2220
 ccgtccaaag ccttatcatg ttatttaaga tatattaaga agggggtgca aggcagggtt 2280
 agctatcgat ggtcctgaa 2299

<210> 2155
 <211> 1520
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2155

gcacaccccc gacgaccttg agcgtgtgcg caacaatgtg cttgcgaaga cagagccctg 60
 ggccctcagcc tatgaggagt tcagtgccta atcctattct caagcaaact atactttgca 120
 tgaaggccct gcgacgggtc tcagcagagg cgcaatttca aactacacct cgtttgcgca 180
 cgacgcaagg gctgctgggc agaacgcctg gatgtggtac atctccaagg accaggcgca 240
 ctgggatcag agcaccacga tctcgtatgc atggggctcg aaccttacca atattatcgg 300

caccgaccgc tcactcttga tggccttga cgatatcttt gccaacgcgg ctgagatcat 360
gcggtgggag ggaaactgga cggaagccgg tgccaagtgg caggggtggca atggattcag 420
catccagctc tactggctct tctcgcgcca gtccatccct atcgggcagg cgaactacga 480
catggcgagc atcaaagccc tgttgagttt cgccgtatac ctggacgacg tactctacaa 540
ctatgcaatg gacgcgttca tccagggtta ctgtgctggc ttgttcgcaa cctacgactc 600
gtcgacgggc caatctatcg aggctggccg ggatcaaagc catactatgt ctggactcat 660
ggctgggctg catatgcagc tcgctggggc cagagctagg gtgttgactt gtacagactt 720
ggggaaaatc tctctctgaa gggggccgag tatgcggcca ggtataatct caatgagact 780
gtcgagtacg atcccaagtg gtacagatgc gaggctgtcc ttgtgaacag accctgggat 840
acaatctctg agtccaagcg cggcgttacc aatcagaatc ctacctggga tatattctac 900
taccaatatg tggtaagcg aaaactcaag gcgcgttga taacaaaagc caagaatgca 960
gaaagatttg gaaggtgcga ttttgggtga tgaccatccc agctggggag agctcatctg 1020
ggcctattag aatacagatc tggacgtacc cttacatct ggagggtagc atctgaaggg 1080
atatgttgct agctagattc tatatgattc tgaatggacc aggatccgtc cccttgtaaa 1140
caatatctcc atccgtactt gtactactag ctgtaaatag gtccaaatat aacggtttga 1200
gcttgagcat agacaacgat atgtctgcc aaaaattgtt atctatgtca acggcaagca 1260
atgaccagtc ccagcagaa caattcctgc gcactaactc tccacgccga gactactctg 1320
agtactactg agactacaca ctggactacc ccactaaacc gacacgtaga cacagcctca 1380
gggagctcca caggacgct atccgctgag ggcttagggg cgatgccgca gtgtcttggga 1440
cagcaaacag caagaattct gccgaacggg aggagaatgc atcgatctga gcattcaaatt 1500
gtcttcatgt ctccataaac 1520

<210> 2156
<211> 1878
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 2156

gccacaaca agggaatgta acgcccctcc tctgcctcgg cggccaaagg ttggcacttg 60

ccaaggtctt ggcaggtacc atttgccctg tgattcgggtt cattggacaa gtatcaaagc 120
 ccagccctaa gcgattctaa ccgcagaagt tcgttctgta cacctgcagc gccaagggcc 180
 tgctaccagg ttgatagggtg cagcgtatga gctcactttg tgcctcctat tgaggcatgg 240
 tcaactgggtca ctgtctatct ctggccggag catcctgtgg ccattggat aggctgcgac 300
 ttccggcggc cagtcttcgg gggattcccg ccgtaagtgt actcctatct cgtccactt 360
 ccagcagact ttccctacat agccgtcctt ttctgcttg tttaccagggt gcttcgcttt 420
 tctgaccctg gtctcaactc gagttctgcc ctccagccacc acaatttgca attcctgcta 480
 cgctcgacgg agctatgcgc ttccctcaag cgagcctctt gctcgtcatc tctatgtcgt 540
 ggaaactgta accgagttctg ttaacgtcgt cgaactggat ttctgtcttc cccgcaacga 600
 aacctacgca ccgacggagg atttccccgt tgtctttgcg gtcaagaaca cgcagcatgc 660
 ggagctgctg agcctcagga tcacctatac aatcttcaag tgggacgcca aaagcatctc 720
 aggtctcttg cctagcacca ccattccccga agagctgctt cgcttggatt ggaccaacct 780
 cagcgacccc tacctcgcat accgatacta caatgggacg agtcccggtc attggtggct 840
 gacctggcac ctccagctggc agagctgcga tgttgaggcg ttagacgatg ctgatagtga 900
 cgggtggtctc ttactaaca cctctcgtcg tcgaggatgt cacaatccaa tactcacctt 960
 ccgcaccaca gaaggaagta gacctggccg ctgcaaccgc agttgggaag tgcgacgacc 1020
 accggtggtag caatgctgtc ggcattcaatg tcaccgacac gacctgaat gccccctcga 1080
 atctcaactg ggctgatcgt gatacctgtg ttcttttgtt ttggtttgta ttttccctca 1140
 aaaagaaacc aaattgtttc gagagtttag tgtatcctgt agacaatgac aatctggcat 1200
 gcaacataac tggctgttgc tgctgattga caagctcacc ctagggggccc tgaggaccac 1260
 agcgcccttat tcgaacagggt tgctaacgaa cgaaaattgg ttcatcaaca aaggaagaac 1320
 cgcaattgag gatgcaaagg ataccgctag aacattcatg ggataaagta ctaccatcgc 1380
 caaagacatg ttgcctgact gggcaaggct ggctggtaag tcgagacgca agatgccgtc 1440
 tcagccccgt ggactagggtc attgctggct gggacaatgt cacttccatt gctctcacia 1500
 actttcttga cggaagcccc gagtcagtcg agtctcacac cgagatcatc tctgacggaa 1560
 agctaacccc tggaaacgcg accgtcgaact cgccagatgg tgacgaagaa agtatgaatt 1620
 aaaatggctg cagcgaatta cgtaccaaca ttgtaaagtg tatcactgggt cagccattc 1680

cagccctgtg gctctgtaca cctcgttga tgcgggtcac ctctgtggtg aacccaaga 1740
 tatcagcagg tcgcttgacg acgatactca gagagcaact ggtngtngcg ttgacggaaa 1800
 ataatactac cttgcatatc cagatggtga tgcaggggaa tgcccctgtg acatttgacg 1860
 gacacaggct ttctgcgg 1878

<210> 2157
 <211> 2315
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2157

cggtcgccc atgaggagaa ccgcgcctcc ctgcgccttg gttccgtctc aaatttcgga 60
 ggctccaaa tatcgagcgc ataggacag tctcgacatg caacaccccc agccgcgcca 120
 ggtcctact ggtcggtatc agtctcagtt agaatcccag gcgcagatct atggtgcatc 180
 tgggaatcac tcggatcaat ggggggttcaa accctagctt ctctgctatt aacgggaacc 240
 gacgattaag tggcgcaagc cgtttatccc ctatatccga tgcaggctat tcggagacta 300
 gcatgcggtc ttcgcgccag ggaccaccgc ggccacaaa aatcaaggac gatgggccac 360
 ttttccaga gagaccgct aaaatcaaag aaggcgagga acgatcgtat gccgaccgtg 420
 ttgtgtcacg ggtaagtttt atagtttcca atatatatag gataatgctg actcgtcact 480
 acacagagct cggccatgca atctcctgga cgcagcacgc cgcgcgcgcg caagccgact 540
 ggtcctcgac ctctcaattc caatagccaa tacaacagcc ccaacagaag aaggcgaaat 600
 taccgcgaca gccctgaaca cgttgacgag gagcatgact actaataagt gcgcgagttt 660
 gacacttagt gcgcaccacc cgtttacgac acgacctcat gagcagtaac ttttggttcc 720
 ccttttttta cgccattttc tttcagtgcc tgggtgtcatg catgttgcaa aacttcatcc 780
 ataatactact acatttactg atgacggcgc tttacatgaa tgtattttgt tctctcatgt 840
 atctacctag cgattccctt ctttgctgca tatttgttac cgtcatgtgt gtaatgaaaa 900
 gcctgcacaa acatcctcaa ctttagcaca cttatctctc agcttctcca tagctctttg 960
 tctagagtac tgcagctctt agctagtact acttaggtct actccgtatg ttgccccac 1020
 tctcgaccat cgctgcgggg taaccactat atatgcgggg gtgcattcct cccatctctg 1080
 gcaatttacc tcagcgcgat ctgaatcaga atcagctgcc ttaatcttcc ccatccaacc 1140

ctttacctct tccctaagct atcagccatc aaaatgccag aaacatctcc aagcccacaa 1200
 gccctcgatt tcctcatttg ctccacctgt ggcacccaat accccacgcc ctcgactctg 1260
 cgctcgtgca agatctgcga cgacccgcgc caatacgttc cacctacggg gtgagtcctc 1320
 tacatactgc tactatcaga taggatccta atactagaat gtatactcct agtcaatcat 1380
 ggacaaccct tcgagcgctg cagaactcgc aagacccgaa gtataagaat atctttacgc 1440
 ccgatacaat ccacggcgag agcttgatct caatacacac ggagccaaag caggcaatcg 1500
 ggcaacgtgc gtacttgtgt cggacatddd caccaggaaa ctctaggctc tttaatgtcc 1560
 tctgggactg catcacatat attgacgatt ataccataac acgcatcaat gaactcgggg 1620
 gaatcgacgc gattgttata tcccatcctc attattatac gactcatctc gtctgggcag 1680
 agatdddga ctgcccgggt tacttgtcat ctgaagatga ggaatgggct gtcgtgaaag 1740
 gggacaagca ggtgtdddtc ggtgaaagtt cactgtcatt tgcaccgtca gggaattatg 1800
 ggggtgatga cggaagagca gatataattg tccttaagac gggcgggcat ttcccgggaa 1860
 gtacggtgct gtgggtggagg ccgttgaaga cgttgttgat tgcggatacg attgcggttg 1920
 tgccaagtgg aagggtattgg gttgataggc cggctggaac agcgtcgttt acgtttatgt 1980
 ggtcatatcc aaatatggta tgttttctga atgacactga atgggccctg gctaacctga 2040
 tagattccac tatctgctga tgacgtgcat ggtatctgga aggctatcaa gcatacggag 2100
 tttgatatca ctcggggcgc gtttattgga atggagacgg acacagacag caagaagcgt 2160
 ctgttagaca gtgctcaaat ctctgtcaag gcaatgggct atctcgatca tgctattcat 2220
 caggaagaat gtcattgatg cagcgtgcta aggtgggtga cagaatgaag tcattgcata 2280
 atcatgaatt ctgataataa tggaccaagc acaac 2315

<210> 2158
 <211> 2852
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2158

cttcccttat cgatttgctg cagcagaaaa aaccagctca tgaccgtcta gcaaactaag 60
 acttcgtact ggatcatgcc gcgggcttct atdddtcact tgtgttgctt ttccacccca 120
 tactgcttcc tcttttcttt ggtcttgctg tcttctctct taatttctct ccacttcttc 180

tgctcattgg atcttccaag cgttgaaacg agtaagctaa ctacacctca atttccttgg 240
 gtctcttcag tgattgggtt tactgacaat ctttggatc agactattcc tttggtcgtc 300
 atggatgaca ccagcaactt cgtggtatct acggtgagag atgccctcgc agacgttaca 360
 aatgtacaaa acaccaagaa tattgaggtg tctgccctag ctctgagaa ggggcgggtc 420
 gagccaaagg actatgacta cgagaagtac gtcactgtca ttccttcaga aaaaccagca 480
 gagaaggggg agaactatca agacgaacaa tcctttcttg agtgggcagc aaacgctgtg 540
 aagtacgagt ggaacgatga atacggtgat gttgggccgg aaaaccctca tcttgaggaa 600
 caactgttcc gcgctgagtt catcaaccgt actggcctca aaatagaaaa gtgagtacgc 660
 tttctctgct gctatctgtg gcatacctga ccggatacag ccttcaaaac attgatgttg 720
 tggctgaaag tcacgaaaga ccctcgccca ttaggaccgt aagtactccc ccagacggcc 780
 cgtccatata tcgcttcaa gggtaacata ctaaataagt tcgatgatgc tgggcttcat 840
 ccaatcatgc gccagaacat ttgtctctgc ggttacgaat ttctacgcc tattcaagca 900
 tacgctatcc ctgccgtect gacttcacat gatttgatcg ctatcgctca gactggttcg 960
 ccttgagaca tcataaactc atcatcttac taacatgccc aggctctggc aaaacggccg 1020
 cctttctaata acctgttctt tctcagttaa tgggaaaggc gaaaaagcta gcagcgcccc 1080
 ggccaaacct ggctgcaggc tttgatccta tcacggatgt ggttcgtgca gagcgcctcg 1140
 ttctgatagt ggcaccaact cgcgaactgg caacccaaat cttcgatgag gctcgtcgtc 1200
 tatgttatcg atcaatgcta cggccttgtg ttgtgtacgg tggcgcgcca gtagccgacc 1260
 aacgcaacga acttcaaaag ggctgtgaca ttctgattgg aaccctggga agacttctcg 1320
 acttcatgga taaaccttac accctctccc ttccgctgt caagtatgat acccagcacc 1380
 acgtaaaaac ctcaattaac ctaccatcta ggtacactat tatcgacgag gctgacgagc 1440
 tgttgctctc tgactgggaa gaatacttca agaaaatcat gtcaggcgga ggtggttcct 1500
 gtcttcccag gcgtggggct aatgctgaca agtacagaca taaatgagga cgcagaccat 1560
 cgttatatga tgttctcggc cacattcaac aaggaatgtc gcgagcttgc tcgcaaattc 1620
 ctctgtgacg accatgtccg tgttcgcata ggccgcccgg gctgcactca cgtcaatgtc 1680
 gatcagaatg tacgtacca ggatgccac aaaccatgct tcaaccacta agaaattcga 1740
 atatcagatt atttataccg aaccgcaact gaagaaaaag tgtctttacg atctactcct 1800

ggctatgcag ctttcacgta ctctagtgtt cgtcaactcg aaagcaacag ctgaccagat 1860
 tgacgactac ctatacaatc tgggattacc aagtacctcc tttcacgcag atcgtactca 1920
 gcgtgacgtg aggatgcatt gtaagctggc aattggctcc gatcctgata cacttggtgt 1980
 catgtgcttt taggcgtgcg ttccgctccg cgaaatgccc gatcatggtc gccacaggcg 2040
 tttccactcg tggtttagat atcaagaatg taatgcatgt tatcaattac gaccttttta 2100
 atgcgttgca cgggtggcatc actgactaca tccacaggat cggtaagttg attaccaat 2160
 gcaagtcccg acacacgtcg tccagcaagc cctaacatct gagaggacga actgctcgta 2220
 ttggtaatga aggtcttgcg acttcgttct acagcgacaa agactcagcc cttgcccctg 2280
 atcttgtaa gatcttaatc gaggccaata aaccgcctcc cgacttcctc tctagattca 2340
 agcccccgga gggcgaaggc attgacttcc acgatgacac ccgacgatga gaatgggtgag 2400
 aacgacgaga atgcccgcctc tagtacttgg ggtggcttac aaccgcctc ttccgaccat 2460
 ccagcaactg ctgcatctga gggctgggag taaatcatcc cctggattcg tatgcgttct 2520
 tacagctttg acaacgcttt tcgggaactt aatgggtatg cctgactta ttaattttcc 2580
 ccgtttcggg gtctggttta gaccccaaac aacggcttta cttctttccc ggatggagat 2640
 cacttgcaaa taatagcctt aagcttaatt gggggcagcc aagcttgggg taggaaagt 2700
 tgttccccca ggcccttttt ctttgagacg ggggtttacc ctctgaactg cacaaatatt 2760
 tgcccttgta acctttatcg gctcttccga atttttgcc ttttagccca aagaaggggg 2820
 ccaggggttg tccttaccgt tttgctaact tt 2852

<210> 2159
 <211> 1122
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2159

aagatcaaga tggtgaatct gccagtttc ttcgcttgca tttgcagtgg caaatggaag 60
 agcttcaagc gctgcgcctc cgcgaatacg aagaaactcg aggctaggcg gaagaccgaa 120
 gtcaccgccc atatagagac cactgatgtc cagcttcttg agacgtgcaa aattcgccgg 180
 attgaaagag ggcgggtaag gaacgaagac ctgcggattt gagtgcaggc gactcggaa 240
 aggtttgata tgggaagggg gatggatggg tcgaccagac gagggatgta gagagccggg 300

acatgattat caaggacgcc agattctgtt gttoccaggg taatgctctg taggtgagga 360
 agggatgatg gccagtttgt gtctgcgatg cgggacttgg aggcgctgtg gatttcaatg 420
 cgttggaggt taggcagact agataatagt tttgtgattg ttgcttgagg gattgttgtc 480
 tgcgagaga ctagaagaat tttgagattc tttgagccct tgaagagggt ataaatggct 540
 tctggtgatg aaggatgatg aatctcgaga tgctggaggt tgggacaacg gctgatgtac 600
 tcgagactcc tatggataga ggctttggtg aggtttgtca agatggcatg agtgagcatc 660
 gctttagaac gacgaatata ggcgagaaca gaggaccagt gaatcttgca gcgggctccg 720
 gtaaaatcta tgcgcatgaa taaatcacgc atagaggaaa gaaaccggtc ccatcctttc 780
 gagactcgca aaatagccct atccggtcag aggtgaaaac ggtatagccg tggcagactt 840
 acacaatctg cctaaaatca aaataatcca caaccatcct ggctatcttct agcgggaata 900
 cactgaacgg atcgaagcat ctgatacca acttctcttt cagtttcgta tgcatttgtt 960
 ccacgaccta catcgatta gtctcggtac cctgcaaatg acatacggca tatgcacgca 1020
 cctgacgccc aggttatctt tttggtatag attttagcgc gtacgcatac gctcagcaac 1080
 acttcgcggg cttcccatcc aacaggagtg ctttagccca tc 1122

<210> 2160
 <211> 1980
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2160
 aagttgcaaa tgatttttac ctgactgagc acaaggagca ctgcgaaaca atcacaatat 60
 aaaggggatt tgattgtacc aaaaggcttg gaggtcaatt gtcgtcaacg ccgtgagaca 120
 gtccgtccga atcgggtagc acgaggagct gtagcacaag ggtataatta cataattaat 180
 ccacattact ccggcatcat ttcaacagcg gggagctccc tccgaccacc ccaacttact 240
 ttgcaaccat cataccctcc atcgaatagc catcgagagt gtcggctgaa ggttccattg 300
 ccgttgcgcc tgggcccatt caggaccggt gtcgtgtccc tcatcaatct tgtctaacct 360
 caaggttagt cgcattcaaa gaggatcgga gactgctgca acggcccggg taaaaacctg 420
 gctggtgaca agcctcctga gcaagcccgga tttactcgcc gcttaatact gttgttcagg 480
 ttttcaatcc cttcccttcc atcctttctt tttggaattg ctggacacat cgattaattg 540

cggtctgttga agctttttgt tcttgtgcca tccccgcata tctggttcgg ttccgcttgt 600
 cacgggtagt tatcacactc gtttatttcg gtatataaga ggggcgatcg atcggcctta 660
 ggcttatgcc ccctgcgtat atcacgatct ctctatcgct acaaaattcc ggctagagac 720
 attgaatcag agccacgatg aacgagcatt atttgcctgc aaaggctctg actcaacaac 780
 cgcgggccac ggggtccgtct cttcttgctt gtcttctatg tcgccataag cacctcaagt 840
 gtgatggagc cacgcctgtg tgtagccgtt gtgccgccac aggtgcagag tgccagtata 900
 ccccgtcgcg gcgaggatac aaggggccct cgaagaagcg gcgcgccaat ccttcctcac 960
 ctgagcaact accagccgat cttgcacat cttttgacct taatgttggg ttctacaatg 1020
 tgctgttga ttggaatgct ttgaatcctt atccatatgt gccttcggcc acccttcctg 1080
 cctcaacctc ctgaggagt agtcccaat tctactgaaca acctgggggt tcgcagcaag 1140
 tggtcaccaa gaacgcacct ctgaccttg aatcgctgc atcaactttcc aatgatggat 1200
 atcttgcga catttactat cagttcttcc acccttcgca ccccatcttg cctccgatca 1260
 agacactcta tcacaaccgt gtgccacctt accttgagca agtcatcaag tttgtgggat 1320
 ctcatctcac tccgcccgcg tcgagtgaga cttatcgacc cggcatcatg acgactgtta 1380
 tggagcagga aggaacgttg gagaagattc aagctcttct cctactcgcg attgtgctcc 1440
 attcgcaaaa cgaacgggat aaggccaaag attgccttat taccgcagtt gacctggcct 1500
 ttgagctcg tcttcatact agggatttcg ctaccacaat gggcgggggg aatccgtag 1560
 ggaggagtgc ctaagacgta catggtggga attggtcatc atgaggctat gttgacagca 1620
 cttggactta aaaaaggctc cgacacatca tggccctcg aagacctt cctgggagag 1680
 cggtatacag gacggataga gtcocgctc acccgatgc gcagttgata gcggctttgc 1740
 accagagcga gatctatctt tacgttgaac aaacgccgtt tctagacggt gggccatcag 1800
 actggtgggc ccagacaat ggattcttgc gcgaatacag ttttatactc ttaataagca 1860
 gctttccccc cgacttacag atttcagccc caggtatggc gggtactatc cggtaacgtt 1920
 ttccgcttgc aaatgggccc gctttccctt tccccccca gactagaggg aatttttttt 1980

<210> 2161
 <211> 2640
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2161

cggtctgcgcg attggccgcg cgtaacaata attcccagac caaaaatacc catcacagca 60
cggcgctgtc tagcgggcag cttcagtttc cagatcaacg gcatgggcag gatagtggtc 120
aagacatccg tgaagatgtt gatggtagtg gcggaaaaga ctatggctcc gtcattgaga 180
caagtgtgcg ggtatttggg ctctagatcc cagtatgcct tgatcggctt ttgaaaaatt 240
agaatctcac caggcttgat ggggtgacaa ggactcaccg gcattggaag atactgataa 300
ggacaaaaag cgcgctggaa acggccacaa ccaccatgcc tactatcatg gcgatgttgt 360
atgtcgaata gatgcccttg ttgccaacaa tgaggaggcg cttgcagaac cataatagtg 420
aaagctttgt caaggagcaa gacaaagaaa ggaagatctg gaatatgaga tttagtttgg 480
agaccatcgg tatccaatcc agcggcacgt cccatatatg tctgaccag cccagctctt 540
ctgttgctaa gcataagaca acggccatgc cgattccgaa gccctagatt cagtcagcga 600
gccaaactgt gttccctcgc cggcatatca gcttaccagc cccaggacga ctagaatgtc 660
gtccagacca gctgtgcgcg taattcgtag ccgggtatat aaccgaaggg cagttatgat 720
agtcgataaa gccaaaga taatgcttgc aatgagcacg ccatgactgc gagtgggagg 780
attaatgtaa ttcggcgtgg gccagctaag aagcacttcg ggaggaggga gtttcatttt 840
cctggtcgac tactggactg agatagtagc gcgctgcggt aatcgcttct tagataccag 900
gattccagga gagacagcga tcgagtgccg ggctccgtac gttgtcacgg ttgggggtcaa 960
gtgtcaagac actgggtgcg ccgatatctt gatcatttca tcgctctgta gaaatcggaa 1020
aggagtggac gaaagtatgc tgggaggcgc aactttaaca aacgaaagag aactgaaagg 1080
ccggaaatct ccatacattat tatacaattt gtcacttca gcgtgcctgg aacctgcatg 1140
gggtggggat ctttcgaaac tcaaaaagaa cgaggcatag ctgaaataat tggaggaaca 1200
tcaatagtgt atcgaggatc cacggatgcg taccagaatg ctgtgcgagg gacggctgcg 1260
ctatataccg tagtattatt attatcggag ttctgctgca gtatcaatgg cgggtttcgc 1320
ccgtgggtatc agatgaggat ctggcaattc tgcgatatag tgcccaataa gcgaatcctc 1380
tgtctgcccc ctgtgaggaa ctgcacagcg gttactgggt gtggtaacag agacggctat 1440
cactgctctt ccgcatecga gtaatcgcgt gtcttgcgac gccaatctta cactgactcg 1500
atggagtccc tcgctaacct gataattcct cgtgggagag agctcgacct tgggaccacg 1560

agatatttcc caaacatcgt ctgatcgact ctaatgatta tcgttcgtat ccgtggttgc 1620
 atcgagtatg gcttggggct cgtaatagc cagaaatcgt ctggcgacgc tttgatgcga 1680
 acgcgccttg atggctttga ttcgacgaga tcgctgaaca gaaggggtgtg cgggccgcct 1740
 aatacccaca caaagtcgca agctcgttac ctgagcgccg tcgtccaaat gggaacagaa 1800
 ccgtggagct gaaaccgact actgaaccaa tcagacaggt aatcacgaag cgaaagaaac 1860
 gattgaagga aacgactgag tgaaacgatt gatttggaaat gaggaccact ctcgaacaga 1920
 gatttatggg ggcgacacac cttttacagc gcgattttta tgccaggtgg aggcagtggc 1980
 cacagcccc gcgcgatacc gacttaattg acgtccttgt agatagttca gttgtagatg 2040
 gttcacgctc gcaggctggc agactagcag actggcacta acagactggc actggcagag 2100
 tggcactggc agactggcgc tggcagactg gcgctggcgt tgaccgaata aaaccgagga 2160
 tgccagcctc gctagataac agcatgtgag gcttagtttg cagccctggg ggaatgggga 2220
 agaggggcag ctaagcattg actttattag ccaggttgt cggctaaaga ctccgcatgt 2280
 gcgctgtcag atattgccaa tcaactacta gaatctaac agaagaaacc tattcttgat 2340
 agttatTTTT gagaggattt tttgagagga ttttgagag cgaggaatat aacatagggt 2400
 aatcccagtg ccgaatcggc cccggcaact cgatccagta cttgatctaa cgcttaattt 2460
 tgagacatcg acggttgtgg gtgcagggtta gccacctgca aaacgtggac ggtgccactc 2520
 tgatcatcct acttagggct gtccaaatat tcagccagca ccttaactcc taagggttcg 2580
 gtaggttcat cccgaggcta taccacgcg ctgcacagtt caagctcaag gtagaatcca 2640

<210> 2162
 <211> 1556
 <212> DNA
 <213> Aspergillus nidulans

<400> 2162

atcgtcaggt tcttatatga ttgatatttt ccgatcattg attggagtca tatctgataa 60
 ggtcgcagga tcggcctcgc ttgttcggtc aaaaggtgaa gcgcattatt agtcggcggt 120
 ttcaagggac aagatcatcg ttattgtatc tcgtatcgtc tccaatctgc gttcatatg 180
 atgtggaccc tcgagctgga gggcttaagg tagccgtacc tatatgtggc agcgagacgt 240
 cttggatata aagggcccgt cctccggctc aagtcataag aaaaagggaa agaaaaaagg 300

tgaaaatcaa ctctacagac ttaccttcac gtttctttga gcaacaacag tccagttcaa 360
 aatgccatca acggttaatc tcctcctgtc cgctctcccg gccctcccca tggcgctggc 420
 tgcttgccca ggccctgatg tcaacaccgc aacgacagat ctcatgaagg cctttgagag 480
 ctgggagccc gatgtctacg atgacggtta cgggaaccct accattggat acggccacct 540
 gtgcagcgac tggtcgtgct cggatgtcgc gtatgatata cctttgtccg aagaggatgg 600
 ggtgaagctt tttgcagagg atattgctgt gcgtctccct ccacggcctt cctctcatga 660
 cgggacctct gggatggaag aaagatgtaa ggtgctgata cgatgagtga aacaggctta 720
 ccaagacggc gtgggtctctg ccctcgactc ctcggttacc ttgaacgaca accagtacgg 780
 ggccctcgtc tcctgggtgt ataacgtcgg cgcgggcgcc gtcgccgagt cgacccttgc 840
 ggctcgctc aatgccggcg aggatcccaa cactgtggcg gaagaggaac tgatcaagtg 900
 ggtgtatgcy aacggcgagg tatcggaggg gctgaaacgc agacgtaatg cggagattga 960
 gcttttccaa accagcagtg atggtgaggc tctgcctgtt tcttgctgat taaacagacg 1020
 tcaatcatgg atcgggcgat tggacgggaa attcttatta accatcgtga tgtgtttcta 1080
 aatgggtact gttgaatcgg tggctattgt ggtctcagat ttgcattcta gctgagtgat 1140
 atatggccct actataatag atgatgtctg ttttcatcag tgcatgcagc ctttttcagc 1200
 tgacgatgag aattaatcat aatcctaaac tatctgctgc tgctttcatg cttgggtcgc 1260
 tagtgtgtgg ccagagtctt tcagatagta gggagtagca tgttcatagt tgttttgaca 1320
 ccgtatttga gcagcaaacc tcttttagtcc atctccagtc gtcgataggg ttagccctgt 1380
 actcaaggca cttgagtctc acagctagat caacagcatt gagggctccc aatgaggaac 1440
 tgcagtaaat ttgaattacc tacgagaagg tatttgacct aatccgatga aattaatggc 1500
 agatacagga gaaatgaccg acagtcttag cgtcgcgagc tgtcaatatt ggccaa 1556

<210> 2163
 <211> 3090
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2163

tagcgtctct gcacttagta gattacgagc ggatagacat tgatttcgca cctgtcattt 60
 gtccatcaaa acagttcgtc ctccattgtc aagtaggaag ttctccatgc aagagcacta 120

gagtatctac gaaagctaga aaaagcttga ttgtatgact ctaagtctgc tccctgattc 180
atttcctgta tttttcaagg tgcattatag tctttcctga tcaggacatt tccttggtgg 240
agtgaatagt cgaagtgaat aagactctac cacacgtcct cccactccga catatcctta 300
aaaatgaatc tttcttttcc aaaagagccg cctctttctc tcttcagcat catgccttga 360
tgattctgac caatagccag gttttgagct cttccacttg ttatcataac atagttgaga 420
cagccatcct gctttccaga caaagcccac ggttgcgaaa caaggtgcac gctcgacccc 480
gattatagca gccgtgaaag actgagctct gtggcttcta cccctcgcct agcgattcaa 540
tagactctat cctgttctac ggataactcg ttgttgcaag cggctctgtaa cccaacaatc 600
cacctttctt cttatcctca cttgcctttg atactggcag tacagggaaat caacctctta 660
tatctgtatt caaactcaca tgagaaggtc gatacgcttc aagaaaatga acagtgcgct 720
cgccattgct atgtacctta ccattttcgg ctctgtcctg atcctcgtcg ccatgtggct 780
gaccagaggc ttttctcgca tcaactgaaac cttgtcctct ctcttctgtc gctctcactc 840
tcaatcccat tcttgctctc aaactagaga aagaactaga agcgcatcca acgaagggtga 900
gcttgaaggc gagtccgggt ggcaaacttg ccgcccccg catttgactg agcgtcgcct 960
ctctggcttt cagccccctc cgaccgagga ggaatatacc agctctttct ttcacggatg 1020
gtacttgccc tacaatgtca gaggtctaag tcaggtagag cccgagcccg agcccgagcc 1080
cgcgctgag gctgacgttg aactcgaaga cctacctcgt tacgagcacc ctccggcata 1140
taccaacaga agtccgccag ccgaagccca tgaaataggg agcaacagcc gtaatgagtc 1200
tctggatgtt acggagtgcc gtccggctcc tggactgagc aacgagcctg ataccatggc 1260
cgtgaccgga caaccgaca atgctcctaa tgacaggcgg ggcccgacgt gacggagtac 1320
cataagccta gttatgtccg ttgaggaggg atctgacttg acgtattgct gaacaggatg 1380
actgtaatta tggacattta ttatgaccac aacgcctcgg cacggcaact ccgcgacccc 1440
gcagtttgaa tatcatggta cttattagga cgaagtattt caataagaaa ataagcctct 1500
ataattctcg caagaacgta gcagggcctg gaccatctcg aagattttcg ttattcgcag 1560
cactgtctct gtttgacact tcacccgtcg tcaaccatgg acctcaccca gataagacgc 1620
caccattgga ccacctcaat cacctatgat gccagtaata tcataacata caatctatcc 1680
gtcggcagca aaggtaaga tctccgtcac tgctgggaag agcatcccga gtttcaagcc 1740

ctgccgacgt tcagctcgct agctgtgatc gacatcatgg gaaaagtcac tgttgacatg 1800
 ccgaaactcc tgccactata taagccgagc cagcaccgcg atgtccacgc agagcattct 1860
 ctcgagataa gagggccatt gccaaagatcg ggaactctaa cctctgaggc gaggattctt 1920
 gacgttgtcg atcgtcgcac gggcgctcgct ctgattgtgg gtatttcaat caggaatgag 1980
 gatacggggg agtggatttg ctatagcgag tggacctctt ttctgatgaa gatgccagga 2040
 gacggggcgt cgaaggcttc ttcgagtatg cagagtacac tacttcctag ccgagagccc 2100
 gacgcggtgc tcagccacca gacaaccctt gaacaagggtg ctctgtatcg agcggcaaca 2160
 ggcgagtgga atccaatgca tattgatcct gcgactgccc agcgggctgg cttcccaggc 2220
 cctattctct ctgggacgtg tacgatcggg attggcgtaa accatgttat cgaggccttt 2280
 gctggtggag attcggcgcg attccagaga ctaaagctga gacttagcaa gcctgtcttt 2340
 cccggggagg tagtcacaac caagatgtgg cggtttaacg aaacgaagat tgtttatcaa 2400
 caggtggcgg gggatgggag ggttgtcatt tcgaatgcgg agattaaact gaaagctgga 2460
 ggaaagcagc ggagccagtt gtaagttagc tcttgctttg taatcgacta ccttttgtga 2520
 ggagtacggg aagatttact tagacttggg catccgtagg catagatttc tatcttcagg 2580
 catgcagtga tgaccaggag aaaggatccc tcatgcagct aaacaaaatg acagtattga 2640
 caaccaacac aaaaaagcag gagccaaaca agaagttgaa gagcattaag caacctggca 2700
 ggcagtcggc ggacagtatc cgtgatcaca agcaaagctg catagcccca ggtacgagtt 2760
 atagttctcc agccacggca gcggcacacc ccggacaccg gtcgtcggcg gcgtcggcac 2820
 gggcgctcca taggccgtac aggtgcatgg tcttgagggg cagtaaccga agttgcagca 2880
 gaaactgcat agaccgacat agttgcccgg tctgtgccg gcgacgcaga catttcgggt 2940
 gccgccggtt gggtttgtgg ttgtcgtcgt ccgggtgggt gtggttggtc tgggtggtgt 3000
 cgttgcctg gtggttgtgc tagtgctggt actggtgggt ggtctcgtcg tcgtggtgcg 3060
 cgtggtcgtc cgcgtggttc ttgtagttgt 3090

<210> 2164
 <211> 134
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2164

actagtgcgcg accgtagagt gcgaccagge caatagctca ctgtcacgac gctaccttcg 60
gcgccgaggg agaacgggta acatgcgcac gcagagatac atcacgtgag ccggcaagtg 120
accggagttc acaa 134

<210> 2165
<211> 2546
<212> DNA
<213> Aspergillus nidulans

<400> 2165

aggcggtttg ggctggacgg ttgaacgac gtctatgacc ttaaggtatt taatgatata 60
ttcgatagca ccactttatc tggaagggtt catattgtgt agatatatat agtctatatg 120
cattcagaac gctgacatat agtgcaatgc tatgattcac tttaggatta aagcttcgcc 180
ttcggagaag ccgcctcttc ttgcgcttgc ttcttaagta gtctcctcaa aatctttcct 240
gcagcactct tcggaatctc atcaacaaat cgcacgcgcg cgcgaggcg cttgtgatgc 300
gcaaccttgc catccagcca cttggcgata ttctttgctt cctccgcgcg cgaaacaccc 360
gagctcttgc tcttcgcgct ccttacgaca aatgcaacag ggacctcagt cccatgttca 420
gcgctctcga caccgacaac ggcaacatcg tcgactgcag gattatcgac caggataccc 480
tcgagctcgg ctggagcgac ttggaagccc ttgtatttga tgagttcttt gacacggtct 540
gtgatataga agttgccctt ggagtcctgg tagccgacgt cgccggtgcg aaaccaccca 600
tctggagaga ttgagtctgc tgttgcggtt gggttgttgt gatagccttg gaagacattc 660
gggtccacgga gatagagctc cccaacctca cctgtaggca cctcggtggg ttctgaaccg 720
tcctcgggca tcgtcatata cttggcctcc atgttgggga ggagtttacc gaccgagccg 780
acactctcgc gccattcacc ccattggttga gtgtgagtag tagggctggt ctactaaga 840
ccgtaaccct gtttgatacc gatgtggagg cggttgtaga cagcttcaac aagctcctga 900
gtaagcggcg cggcaccgga gttcatcatt cgtagactgg aaagatcgta cttttcgact 960
atagggtggt tgcccagaag gagaacaacc ggaggaaact cgtagctgaa tgtgatacgg 1020
tagttctgaa catgctggca ccatttttcg aggtcaaact tggccatgac aaaaagctca 1080
tagcccttgt agatcgtttg gtggacaaga catgtcaagc cgtatatgtg gaagaatgga 1140
aggaaagcaa gtaagcggtc acccttacca tctgccccgc cattccacgt caggttaccg 1200

gcttcgcctg cagccaactg aaggctgttg gcgacaatgt tgcgatggct gagcatgaca 1260
cccttgggaa cccagtggt gccagagctg taaacaagaa acgagagatc tttctccggg 1320
ttgatcttcg tgcgacgata acgagtggct ccggagatat tgcggataga ggtgaagtgt 1380
ttgaacctgg cctcaggatc gcgctgggtc cctatcaaga taatgcggtc gtcagggatg 1440
cctacctctt tcgccgcggc tcgcgcaact gagagaacag gtagttgagt aacaactgcc 1500
tttgcaccag aattccttag ctggaacgcg agttcctcaa ctgtatacgc tgggttagag 1560
ggcgagacaa caccgcctgc ccagagcgcg ccatacatga caatgggagt gtcgatgctg 1620
ttaggggtaa agagcgcgaa catcgctttt acgccagtca aagagagact tcaggccttg 1680
gcacaaagta atggcagact gtttcacatc attgtaggta taggagcgtc ggggtgcggc 1740
atccgtgtag ataacttgaa aacgtcagtt ggggtttggc aaaactacgc aagaggtaac 1800
ctcacccttg ttgtcaggga actgcctatc ctttcgctca aagaggaatg ccataagtc 1860
gatgttggga atgtccactg gaggggtattg cgaatagaca ggcattgtcg gaagagggtc 1920
tgcggagtgt gagaggggac ggcttggcaa cggagaatgc ggggggacaa agcgaacgag 1980
tgcctggacg gtgacagaca agccgcgagg agaaactggg agatgaaggg aagaaaaatt 2040
taaagtacg gattgtctag gcgaataaat cctgaatatt ggagagatag attactaaac 2100
agcaccacag gctccggcta tacgatcgtc tatectccat ccgcagtgtc cggccctcgg 2160
caccttgta cctgacttga cccagatta ccgcatccgg aaggagccaa acgtttccaa 2220
cggctcggc cagacaacgc ttatcagcgg tgcagcgggt atcaacatca ggtacactgg 2280
gtctttgcaa gctgcagatt aattgaatag agcaatgggt ctatatctat ctattttcaa 2340
tatatttccg aattactttc tatgtatgct gtatacagag tacagaaaga cgccattgtt 2400
cgacttgctt cactacctgg acttataatc tgccggcagt tgggtggatca ctttagtgta 2460
cccgatcttc gtcgtgggtt tacagtggga catttaccgg gcgactttgc agctttgtgg 2520
gttttcgaat aaatacacta attggt 2546

<210> 2166
<211> 1874
<212> DNA
<213> *Aspergillus nidulans*
<400> 2166

ttgggagggg cgccgcgccg tcaccggcag tctttgacat tgccaaccac tttgcttata 60
 tggggcgggt ctgagtgcga ctacagcatg atgccacccc ggacggggccg tcgacagttc 120
 ctggaggaat acgttcggag ctacgcgcaa catcagggca ttccagagtc atcacaacca 180
 aagattgttg accaactatt cgaggatgta gaccgctttc gaggtctgcc tggtttatat 240
 tggtcagcgt cccccccaga ttaagtggac gccatactaa cagttgcagg ggaacttggg 300
 cattgatcca agcgcaaate tcgcagattg acttcgacta cgcttcatac gcggagactc 360
 ggctaggcga gtattacgca tggcggggccg agacggaagg agcaagaggc gagaaaccct 420
 tacgagagcg acgctgggca gaggaatgag tgcaggtatc atcttcaaca gtgaatgttt 480
 gtacagcgtg tttcaacagc gtgcatgagc catcattacc agtaattaga caaaataaaa 540
 atctctagat caaaccttat cgtcctttca agataccact acctacagcc gatgctgaac 600
 agccagctcc tcttgcacct gcacctccac cctctccttg ccgttcatgc taacattcac 660
 agttaccggt gctggcacct caacatcgag tcttagcgcc gcaacaaccc tcttccaact 720
 atccatccca cgtctcgcat gctccccac cgtgttcaca tggggatcat tacacgtcct 780
 tgaaaacagc tctagactca cccaccctc gaaccgatt tcaaagaacg ccctcgcgat 840
 ctccaacaca ggaagatacc caccctctc ctcttcacag gggaataacc gcgcattgcg 900
 actccagctc attcttgggg gttggccctc cacatgaaag ggggtgcttct cgtccagcgg 960
 cgccgacaac cgctcgccat cgacaagctg gatgtagaag attttctga tgtccagttc 1020
 tccactggag acgagagaac ggagcgtctc catggacttg gccacggctt gctcagcatc 1080
 cggcgtcttc ccagtgcgg aagcggggtc cgcgtagatc cggccagcga tgttgaagct 1140
 atccaggcag atcccgaaat tctctctatc aaccagcttg acgacattcc acgtgcttc 1200
 ccatgtatcg acatgcgtcg accagcagag cgcctcgtac acaaagcggg agccctgctt 1260
 tacaccgata tctgcgatcg tctgcagatc tgagacgata agccttatgt cgccgcttgt 1320
 tcgtgcagcc ccggtgacag ggtcattctg gaggaaattt gcggggattt ggatgagatc 1380
 tgtgcctata atgcggggcga tcgcaaacca gagcgggagt ttctcagtga gcaggtagct 1440
 cgtctgattt gtgtccacca gaccctcgta gaaaccgaat gggtgcaggc agataaatgt 1500
 gaggttaagt tgcttggcga gcgaggagat ataacttgcc gcttgagtga gggagccatt 1560
 gaatgacgat gaggcgaaat gggagaggtc atcaataaac agctcgatcc ccgcaagcc 1620

atgagcggcc gcgacgcgga gcttatggtc aagagagtgc aggcccggtt ttgacaggga 1680
catggttggg ataccgattt tgaggtttgc gggcattttg aattgccgac tcttgggtct 1740
ctgctggaga tctaaaggta tatattatat taagaataga atgaatgagc tgattgagtt 1800
gaagactgat cgaggagcag atggcgggtga ttatgtaccc taggcgaagt aagtaggtag 1860
gtagggtatg ttg 1874

<210> 2167
<211> 2229
<212> DNA
<213> *Aspergillus nidulans*
<400> 2167

aggagttaca aagggatatat gagggcgtgt tgatgggaaa aaggcggtta aagggaatgg 60
aagagttggt tcagaaagaa agggcccggt tgcttaaacg tgagcggaga gggtagtcgc 120
atttggttga cacggtagaa aggggtgttca gcaaaaacgg ggactttgca actaagaagg 180
aggtggcccg gcgaattgac gggagttcat gttggagggg aagggtggttc gcgataaata 240
aggctggaaa gttagatatt aggttgtagg ccgacgggga actgaagctt cggttggcca 300
aggattctgc gagcgaaagg gaaaagatac catggctgag ggggttccga atggtagcgc 360
caaactgccc ctttcattca ccggccaaat tagcatcagc cgggagagat gaaaagagcg 420
cgcgtaaga tggccacgcc ggctgagcag gccgtaaagc cgatcatgga ggctatggag 480
gagtagggga cggaacatca gtcgcgtccg cgttggagga gacaaggccc ctaatcgct 540
ctttggtacg tgggttatga gaatgaaaag taggacgaat gtgatgtgca ttatcttatg 600
acatatgctg atggggatcg cagacggttc acctgcctgc cgtgggatat acaaagctgg 660
cgcagactga taacttcttt ataaccgcga cagtggagtg gagggatgca gaatgaccga 720
aaagcagaca cgttgtctac agggcacaga cattgatatt gactccttat ttttgggtatt 780
ccatgaagca gctacctatt aaatctcggc gcggacgtac acatcggcag accgtcgatt 840
cgcaccctgg acaatcccca ggtacgctgc ctttcacact tatatacaca gctgattgcc 900
tacaccaccg cccaacaagc cttctgcctg cgtcgctca gccgaaaag atcgttcatc 960
tgcttaggct tcaagcgaag cctccaccat gacctcaat ccctgctcga ttgcctcctc 1020
attccgccag cctgaccaag tgtgatcgag tatccccag gtatcgctcat agtcctggcc 1080

tccggagcga atatagtaac tcccactaat ggtccaaacc atccagccgg cctgctgctg 1140
gggaatccac tccctaatac acgaagcata gacactctgc catgtcgttt catcctgcgc 1200
gaaaccgaac tccgtcagga cgacgggcat gatgttaacg atgtcggaaac tgttcgtatc 1260
gagcgccttg aaccccccg tccagagggc gccggagaga ttggcacagc tcgatgcgcc 1320
tgtatcgtag ttgtgcaact ccagcaccag tttatcagcg taactgaaat cttcaaggta 1380
gaatctcgtc cctcaccca gatcgtccc agtcgggac ggcgcaagag ttgtatcgta 1440
gttcaggccc gagagaaaga tcaacgcgtc cggattcgca gcgttcacca ggtctgccgc 1500
ttcagtcatt tggctatacc acgtttccca gttgtacgga taactggggg ttgcgctggc 1560
cggctgtcgc agttcatttc gcaacccgat agacgtgaac gtctcccagg acgccgcatg 1620
ggaggccata tactgcagcc cgcgtttcca gttgtccaca tcgaagtacg tatccccaaa 1680
ccaggcggtg ccatcagtgg tggagcagca ccacattgct ttggagatat ggttatctag 1740
gtgcacgtag acatcttggg ctgcgcattc agcggcaacg aggtcgtaca cttgcattct 1800
ggttgctgta ttcgtgatta atgggttggt ggttacgac tggttgaaga catccgttcc 1860
attcgtaacg cccagagcct tgataagcga ggctaggact gtagtatcgc catcattggc 1920
gtagatatca tcgacgagtt caatggggaa cgtaggcgg atcacattca tccgataga 1980
cttaatcttt gatattgtcg aggcaaccga ggcatactgc agtccttcgg gaatcatggc 2040
ctcaccggcg ccgggccagt ttacgccgc gaatgttacg cgcgcaccgg tagagtcgag 2100
gatccagcgg ccagaaacgg tgaggggggt attgagggcg gcatttatga ggccgggggt 2160
atntagatg ccgacgagga ggctaagag gccgggtctc atagtgaata tggattgtgg 2220
acactgatc 2229

<210> 2168
<211> 2633
<212> DNA
<213> *Aspergillus nidulans*

<400> 2168

atctcgcggc ccgccaccaa tgccccatat caaccggagt gcgaccatgc ctaccccagg 60
cggcggacta tatcccgcc agtcagggtta tcaagatccg agggagagta catatggagg 120
cttgcttgat agctactaca cctcggctcc cgacgaccct gacatgccga attttgatgc 180

aatgccggac ttgacaatg gcaaaggaac gattgacgaa gctctaccag gactcgaaca 240
gccaaagcca aaacctgatt ctcttgctga gtccaaaccg ccgcaagggc aatacaaagc 300
tttcaatccg gcaatgcata ccccgccaga aaccggtact cttcttgag caaatcaatt 360
tgccgatgcc ggattccagt ttgacctgcc cggtgagccc aattctgctg gtccttctca 420
caacggaatg ggccattacg aaccttacga ggatcatttg cagtcgcaat acccaccgca 480
gcaggcaggc tatgttgaac cagaagtttt ggatccgcag caaatcctg atgctcttcc 540
acaccacccc atgccatacc gcccaggtea cgattctggc ggaccaccgc ctctgtgctg 600
ccaatacaac ggtgcatga actcccaacc acaatctgct ccaccacaag gggctccgga 660
agggccagcg ccaccggagc cggtgacgca tgctgaattg gagcgctcc agcagcaagc 720
gcgaggtaac cttcggacc acaaacttca acttactctc gcgcagaaac ttgttgaggc 780
ctccatagtc ctggttgagg ccagcagact cgaccgaag tcaaaggcga aagcccggga 840
gaaatacaat attgatgcc acaaaattgt caagaagctg gtttcagccg gctaccaga 900
cgccaattc tacatggccg actgctatgg tcaaggctc ttgggccttc agaacgatgc 960
taaggaagcg ttctcgctt atcactccgc agcgaaacaa aaccacgctc aagctgctta 1020
ccgagtcgca gtctgctgcy aaatcggaca cgaagaaggc ggtggcagca aacgtgacc 1080
cttcaaagcc gtccaatggt ataagcgcg cgctctctta ggcgaccctc ctgcatgta 1140
taaaatgggc atgatectcc tcaagggcct ctaggacaa gcccgcaacc cacgcgaggg 1200
aatctcatgg ctcaagcgcy ccgccgagcy cgccgacgaa gagaatccac atgcccttca 1260
tgaactcgcc cttctctacg ttccgccaca gagaacgata ttgtcattcg tgacgaagcc 1320
tacgttctc aactcctgca tcaggcctcc gaactcggct acaaattctc ccagtttctg 1380
ctggggcagg cctatgagta tggtcagctg ggctgtccc ttgacgctag gcaaagcatc 1440
atgctctaca gcgcgccgt gcgcagggcg agcaccaatc tgaactcgct ctgagcggtt 1500
ggtaccttac tggcgctgaa gggatcttgc agcaaagcga tacggaggca tacttggtgg 1560
ctcgtaaagc tgcggcttcg ggtctggcca aggcggaata tgcgatggga tactttactg 1620
agacgggaat aggggttact gcgcacctag aggatgcaaa gaggtggtac tggcgagctg 1680
ccggttagtc cccttagct tctaataatt ggtccatagt tactaactca ttcttagccc 1740
aaggattccc taaagcccgt gaacgtctcg aggaactcaa gtctgggggt gcacggatgc 1800

aaaaaactcg gctctctcgt tcagccgtga accagcagaa atctaataatgat ggggactgtg 1860
tccttatgtg atgcgatgca atgtgatctg atctgacgcc aagcttatgt actacaacct 1920
cacccttctg tcaacatcta tgtccacctt caccacccaa acttacattc acgatacctc 1980
aattttttgc tatattactt aatacctcta tcttatttca ccttgactac ccttttggac 2040
tatgctagcg atgcccttac attcatgttt actttctggg aaatagaggt ttatacatct 2100
tacgaggcat cagacgatcc gaactatgac aatacaaccc cgttatggga gctactatta 2160
tttatgtaca taaatataga cttgaatata tataaacata tcaatcttaa tttgtctcca 2220
actttgcac atggattcct gatacatcca aacaatcgta caataatacc tgcagcaaaa 2280
ctcgcgagac attatacaat ggatgtatga atcgtacata tacattacca aatccagtct 2340
gttccagaga attctgaaga cccttaagat ggatccaccg tccttgaggt gaagtgaagc 2400
gcatgactaa tactgcgctc aattccgcct tttcaatcac aattccgccc cttgacaaat 2460
gtgaagcaat tttttggacc agatggtagt acgagtacgg tatggtgaca gggtcagggc 2520
tgcttactat tgattaatta atcttatgat tcgagctgaa ccgtatatcc gaatcgtata 2580
tatggttccc ttacctcaa ctctctataa ctctagagcg ctacctctgt tta 2633

<210> 2169
<211> 2377
<212> DNA
<213> *Aspergillus nidulans*

<400> 2169
ctttccttgc ttttttccga gtggcgggga ttttccagct cccgacatgt aaccaatct 60
tcctctctcc cgtctctctc tcttgcttcg ctttaaacc cttatctttaa tcgatcaaga 120
aggaggccaa ggaggactgg gacgagcatg gatcagggta taactgtttt tcgcaagaat 180
gaatcagacc tccagaggca aacggaagca gcggtcaaca agaaacccaa gcgcggtccg 240
ctcaatacca tcgagcaggc cgtctctgatc aaggtctgag agaagagagc cagatacgtat 300
gaggtttgca acataacttc ttcacaattc tggttcggaa tcgagatggc tctcgaaaga 360
gagattggtc gtcgctactc gcactattcc tgcagaaaac gcatcaacga ctacatcaca 420
aatcgtgcta tatatcaaaa cgacatcaag aacgggataa aaccggatcc tgtgcttctg 480
cccgaccag agatccgcaa gctgctagat cgatgggagg aaatggacaa atacaaggaa 540

cagctggaaa gagagaaggc attaggtcag cttgtgggac gggagcctga agtgccgacg 600
aaaaacaaac tacagagagt cgcggactgg gtcaggagcc ttccagaccc ggagcctcaa 660
gctagacccc tcgtcactcc gccctccacc aactcctccc aatcgccagt caaacaggat 720
gaatccactg ttctttgggc tcgatatcgc aaaattgaag attatcgggc cattgcacgg 780
tctaataaac tccgtgcgtt gaacaatgat ttaacgagca gtcgacagct tctatcgaat 840
atcaaagaac aattacactc gacactctac gatccgccgg ccaaccaaac aacgacaggt 900
ctaaagcgaa ctcggaaga cgaggtctct cctgaccgag cagcgccacg tcctcgaatc 960
gaattggccg aattggaggc tatggccaag ccaccattga aacagagtcc tggttaactcg 1020
aatgtcctta ctcaatccga aattgcgccc gccagatgc cgattgagac ggtattcagc 1080
aaattctggg aaagcatgct gccatatttc aaggaacgag ctctgaaaga tggcatatcc 1140
ctcataaagt ctgagtctat catgcacgac ctatttaaag aagttggggc cgccatgacc 1200
aaggcattta tgaaactaga gcagcaaacc tctcgatctc cttccgctta caagcctcct 1260
atataagtcc gcttcacgtc gcattcgagc atacgcatcg tcatttctgc tatctacgag 1320
cattttctgt cctatttccg tttccggcgc gcattgtttc gtcttcaact tcatcatagg 1380
ccacttttga gcttgattca gttttctcat tagactgcat agagtcgata ccccgttttc 1440
tttgggtcgt ttggatttac gatttgtttt acagttgcat cgcaagcacc gcaagcatcg 1500
cattgcatat ctgcttgaca tctcttactc ttctcttatt ctctgtaca tacaagactg 1560
cctgcccatt tgtggtgctg gatatgaagc atcactcaga ttgatgaatg aattaaagta 1620
aacaacacg aaacaacttc atgcccatgc tgagtactcg aatactcaat caaaagggtg 1680
caaatcaca ttgccatctc tactaagtca tacttcgtga gatcaataaa taaacgccat 1740
gagagccaaa gtcgtatac tatactcacc caccaccgcc tagaaacgcc cgccctgatg 1800
gtatgcaaaa aaaagacgcc aaatgccgat cccaaaagaa atctaataac ataaaataat 1860
ccactgattg acaatctcct ccataatcat cgcaataccc cactgcgaaa ttagacaccg 1920
aaacagcttc tgcacgaat tcattctcata aagaagggtg cggaccgccg caacccagc 1980
tgagagaatcc gtccttcctt ccgttacaaa ccggctcgtt tcagagcctg tagatggccg 2040
gaatccagac tcacagccga ggttcaagtc cgcacgcgaa agcagcgctg cctgccatac 2100
aactgtgcgc gggagatgaa tattcgctat acccgcgaga gcgaagacaa cgtagactgt 2160

tgctgcggcg gaaagcgaag agggcatatg gatgacgtgg gcgcggggcg ggggtggttg 2220
 tgcgatgatg tcttctatgg cgatggcatg gagtaaggcg cggcggggcg cttcggtggt 2280
 aacgcgattt agcatggcaa agcctggacg gagggcgcg gaaccgccag gaactggttg 2340
 cgggatgtcg taactggtgc agacgtggcg gcagggg 2377

<210> 2170
 <211> 1918
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2170

atgctgggca gtggttgctg tgggggcgga ggggactgtt gacaattgac atgctcgctg 60
 gacgaacccc ttgaactcca atcaatgact cgatcgagta ttctttttat ctcccagcca 120
 gtgttcctgt cacggccttg cctttgtcca gaatacgact gagcacatcg ttctctatct 180
 cagtctcatt tctatgaaga tcttgcccat tttatcccg cgatccctct atcaatagaa 240
 atctagcagc tctgctcaat cccctctatt caagtcaaac gcacccctcac ggcacatttt 300
 cgcttgcaat tctgaaatgt cctcgaaact gcatactgct caacatgttg acggttgacg 360
 agtcgtgggt taatgtgcag cagaagacat tcacaaaatg gtccgtccac ccgaaagcca 420
 tcccctcctg cgaagccggc ctgctcacc gcaccgccca tgtttcgag ctcgccaatg 480
 tgatctcttt tgttctctat ggctcggatt cagctgactt catcttctat tcttgcaggc 540
 tcaataacaa gctaaagggt cgcgatattt ttgtgaataa tctggtgccg gaactttcaa 600
 acggggtaag tcgtctatag ctccagcgcg aagcccgat tgctgatact gcgcttgctg 660
 ttattcaggt cacacttatt catttactcg agatcctcg cgagactca ctcggtcgat 720
 atgctgccaa cccaaagctt cgtgtgcaaa aattcgaaaa tgttaacaaa agtctcgact 780
 atatcaaggg gcggggaatt cagatgacca atattggtgc ggaggatatt gttgatggta 840
 accagaagat catcctaggt ctaatttggc cgcttactct gcggtttact attagcgata 900
 tcaatgagga gggcatgacc gcgaaggccg gcctcttact ttggtgtcaa aggaaaacag 960
 catgctatga ggggtgtggaa gttcgagact tctctacgag ttggaacgac ggcctcgcat 1020
 tctgtgcgct cttagatatt caccggccag acctgatcga ctatgactct ttggacaaaa 1080
 acgaccaccg aggaaacatg aagctagcct ttgatatcgc cgcgaacgaa gtcggtatcc 1140

ctgatctact cgatgtcgac gacgtgtgcg atgtcgccaa acccgacgaa cgatccttga 1200
 tgacatatat tgcgtactgg ttccacgcct tttcccagct ggagagggta gaaaatgcgg 1260
 gacggcgtgt ggagaagttt gtgaacaaca tgcacggcgc atgggagatg cagaactctt 1320
 acgagaaaag aatgagggaa ctcttacgat tgattcggcg ccagcgtgaa gagtggaaaa 1380
 acgcctcatt cgaagggaca tacaaggacg caaaggagca ggcctcccag tttgccatgt 1440
 ataagcggaa ccagaaacgt cagtgggtag cggagaaatc agacctcgca gctctcttgg 1500
 gaaatatcaa aacgaagctt agcacgtatc gccttcgtgc ttatgatcct ccgccagagt 1560
 tgtctcccgga agcctgtgat caagagtggg aatgtttgac ccgtgacgag catgagcgca 1620
 gtcagctcat taacgaaacc attcgagata ttaagaacgc tctgcgccgc tcattcgag 1680
 ataaagcgaa cgacttcgcg cttaccttga agacgctgtc tcttgcaatc tcaggccttg 1740
 acggagacgt tgaagatcaa cttgcccacg tcaagcgact gaacgacaac ttaccgccgc 1800
 tcgatgcctt cttggaaact attgcgagc ttgatgagca atgccaggaa gcaaagtgtg 1860
 aagagaatga ctacacaaca tatacattgg acgaactggc ttatgagttg agcctggt 1918

<210> 2171
 <211> 4158
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2171

acggatctgt ctgctatacc aggttccatt tgcttgacta gaccctgct ctccacatac 60
 gccgagtgca gaagcgggtc acaggaaggt attatagtaa cttgcatccg agcaggggta 120
 gagagctgag agagtatgtg agaggatgtg agaggatgta tttttaaact agagaagcct 180
 gcattggcgt tcatatacct gtcagtcagt acggatagcg agctgcaccc aacactagca 240
 ggttgcaagc atggtgaaag gctccaaccg agctttactc cactccatcg tactatatcg 300
 tagcatatca actgaatata gactggcaga gaacacaaag aggctggat cgacgttgtc 360
 agcatggtca aggaccacta gaagcgctac tgctggacca gagctcggtg gacacgtagg 420
 ccgcactaat actgaacttc tgtgacgcag tcgatctaag atcagcaaag tgacatcaaa 480
 ctacgggctg ttttgtaagt acttgggcgc taatagtgga cgggggccgg gctgggctct 540
 aatgacgaac ttctccact ggtctggacc tagagaacgg cgatccttat cttccttcac 600

gcttgacaaa tacaagagc agggattgac tcgtatagac ccagttggg catttgagg 660
ggccactaca gttatgcagc catgcattca gcagtttctc gatgtgcttt gacagcggca 720
gcgaagctgg catgaggata tgctgtccag aaagagacta cgtcagttta agaccgctat 780
gatgggatat acgttgctgt gaaccgtaag gattctagct gcagactcat atactgtaca 840
agcagtgaat tcgagaccaa agagagaaaa gaaaagataa ggataaagcc aacctcagct 900
acatactctt ctaaaccacac tgctcgatgg cagtggagtt cgcgcagac aacggagctg 960
gtaggagagg tgacgattta ggtgcaagta gggcgaatat tatcaacgac ctagggttct 1020
gctatccccg atagaaaccc ccaaaaaaat tcaaaaaatt gccaaaaagg caaaaaagct 1080
taccctctgc tttccccaag tgacggggtg gccctttgac gtctttgtac tccgtatgac 1140
ggaccggctc tgcagtaagg ctcatactca ggtccagtc ccatgacttc atgggggtta 1200
gcactgcgat gtactgtgta ccaagacgac ggagacctcc accaggccta tgacatacgt 1260
cccatacact ctgtagctc ttgccacact cttcccagc attgagtttg tccgtcatct 1320
cgatctcctt catccgcat cataatagca ggagcattat catcatcatc aatcatcatc 1380
gccatcatc caccatcatt atcaatcgt ggtgccgtaa tttgatgctc tgttgactc 1440
aaagagtact ccgtactctg tcaactctaga ctccactcta tactccgtag tcaccgtagt 1500
tctaggttga cgtcatcgcc ataacgtcgc cctaagagaa tcatgtactt tgcctcaggc 1560
acggggcccg tcagattcaa tagcgcgata gcgcgagtc acaacgggta caaggcgcag 1620
acgtgtttct cgcagacttt gcacagattc ccagataccc agatagccga cactccacag 1680
ttggctggga tgtatagcaa tcctcgtctt cgcagatctg ttcagatctg atcagacctg 1740
gaccggatta gatcagtggc attgcagtgg caacgcaatg gcaatggcaa tggatcatggc 1800
cgagtccccg tcagtcccaa ccctgaacat cgcctatctg aaaaccgct gtttctgctc 1860
cccacagtgc tattgcttgg caaaccgcg ggaactggat aatgggatgg actgtattat 1920
tgtctgctca tacatatcgt gtacggagcc ggagactagt tccgaacgat gtatttgctg 1980
gtaagtatcg cccgtaccgc atatggtttg tcggtctgta ccgtccgtgt cttctctggg 2040
cacttgaaca ctcgatctc gagctgtaga gtgaggtcat ctgcatctgg actccgccga 2100
tgaaggcaga gtggaggaac tgcggaagcg taacgcctta gggctcagga actgtgatgt 2160
cattgtgct cttctcagcc aatgactggg tctgcacgat gatcaccatg tggccgaccc 2220

tctgcgctctg caaaggtaga gggtagcttcg accggacgat acgtagtgat acagtgattt 2280
gtcacaagta atatgacatc cctgtgctgc ggctcgctcg acgcctttta agcccatcga 2340
attcggacct gcaatccgaa ctgcacctat aattttctgat ccaaactaac gcgaacgtga 2400
ctgactgccc gacgattgac tgcccgacca actggtgata caacattcta cctcttataa 2460
ggtagcggtt gagagctagg gttccctggt cctcactact gcttcccgtt tccccttacc 2520
ctgccagaac ggccggtggt ggcgatggcc tgtatcaggc taccatgtgt tgactgtcgg 2580
cctcgacgtt cgtctcacct tgggtcaccc ttggcgatg tctccctagc ggccgactcg 2640
acgtttctga tccataccag catgatgtgt ccatgccagc atgactgact cgtcacagac 2700
atcctgtcca gccatcccca agatacactg tccaatgcc ctccgccagc gccatacag 2760
cgtccgtgtc ccataatcaa gactctggtc cgctcccg cgccatgaat gccaatgtca 2820
gcgccagcaa ccgcaacgtt atctaccccg gtcaatctgg cggcagcggc ggtcacagcc 2880
gccgctcgtc caccaccgtc gaagactatt cgcgcacat gctcgagtac acccaacgcc 2940
gcatggccgg gtttgcatat cgccccggtg acagcggcag aaggtcagcc actagccgca 3000
gcagcaggag cagtaacacc agtggccaga gcggcacttc gatgagcggc ttcctagcag 3060
gacaagcaac gggccccggc cctggatctg gctctggctc tgcactgact ggccgcaccc 3120
attctccggc tgattctaag atccgccatg ttgactttgg cgcgggggtc tcggatggcg 3180
aataggaatt gtcgcagggt tagtgcagcg cattacgttc gacagttttg ataacttagc 3240
acaggccccg agtcttggtt tcataattga gcgagtatga aagcaggtct ttcagagaac 3300
gtcatcgcga tcagctcgac ctgatatcgg cagatgtggt tgcgactcaa tcggtcctta 3360
gattttgagc gttaaattct agcgatagcg actgcgggta tgacaacaat agcgatactg 3420
cgacaacagc aatagcgacg gtttcacgcc taccttgcat acttccctgc tctttctttc 3480
tacagcctcc taccgtccc ttcttcccca gctggggctc ttgttttgag tgcgtttctg 3540
ctttacagct acattgacag cgacatcctt tcttttctac atccttattg atcgtccgcc 3600
tgcttcagtt gacagttata aacgaggcag gtccaaaata tcctaccgta ttgatctacc 3660
tgatgtgtgc gatacctgta cgacgtaatg acccttcgtt ttacgccgat gtatcctaag 3720
gtctcaggag acggtatggc agcttgctgc caatgctagc agttgctagc aattgcaatg 3780
ggatgcggtt gaattttgat cattgattct cgtgggttct tgattttctt gtttccttcc 3840

gagtctgtca ggactggcat atcatagtat ataatagcat atatggcagc attacttaca 3900
 taaccagtaa tcttgccgggt atgctaccca aatgaattat gctctgctat gctatgctgt 3960
 gctctgctct gctatgctgt gctctgctct gctatgctat gctctgctca agacanagca 4020
 tgaatggcct catcatcatt ccttccttat gcaggcaggg cgcgaaaggc ttatctctaa 4080
 : ccgatccttg cttgtcgcat ggcttgcgct ggcttgtagc ctccagggca ggctgacaaa 4140
 tggacccta ccctagcg 4158

<210> 2172
 <211> 1903
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2172

tgcgcccttc aataatggga tccgcacaac taaccctaatt tctctccagg tgtagccgga 60
 ctgacaagac tcagcacatc agtaaccccc cactccttcc tggcagcctt cagtgcattcc 120
 cgaatagcga aaaacgccgc gctgcccattg aaaagcgggtg gctcgccgac gcctctactg 180
 cgctggatcg tccgcaggtt ctcccactct acgtccttaa ggagactaac gttgaatatt 240
 tgcggaatgt cacggaagcc cggaattttg tagtttccag gaccttttagt gaatatttgg 300
 ccagttgtgc ggtgccaaag gctttcttct gttgtgaaga gaccctggcc ctgaatgtat 360
 gcgccttcta tctgaccgta gtcgatggag ggggttgattg tgcggccgac atccattttg 420
 atatctgccc ggagggggcgt ccagtcgccg gtgagcgtat cgatttcgac ttcagcggct 480
 gtaacgcctt gcgtgaagta gaagaacatt tgacccttgt tctcaccaca ggtatagccg 540
 atgtctgggg tgcggttagta gccttgggca gaaagggtga cacggtcgaa gtaagcagcg 600
 tgaaaagggt cttcaagggt gcgttgggca tcttttcacg gtagggcttg agacgttcgt 660
 tcagttgggt gcaggcgta tagatggcat agccgttgag gtcggagctg gcagaagccg 720
 ctgtagagga tgtgtttgcg acggtgttg tggtgtttc ggagatgaag acgtccgaca 780
 agggaacgcc tagggcttcg gctgctatca tggatcatctt tgtgtggaga ccttggccca 840
 tttccacgcc gccgtgggag acgaggacgc ttccgtcgtg gtagatatga acgagggcgc 900
 ccgcttggtt gagaaagagg gccgtgaaag agataccaaa cttggtgggg ataattggcca 960
 tgccacgctt ggaccacttg tgcgtgcggt tatattcctc cacggccatg cggcgctcaa 1020

aataactcgct cacatataga acctgatcgt acatcaacgg aacatgccag tccttaagtt 1080
cttgggttgaa atgagtcatg tcacccgggt cgtacatgtt gagcctccgg agctgttcca 1140
cctgaagggtc tagtttatct ttgacttctg agatgattga ctcggcggga aagagacctt 1200
gagggccacc aaagccccgg aatgccgtat ttgagacggt gttcgtcttg catatcctgc 1260
cccggacgta aatgttcggg aatcgatata cgttgtcaat gtgtgaaaga cttegttcca 1320
caacagcacc tgaaagatcc tgtgtatgtc caccatttgc gtacacgtcc gcatcaagtg 1380
caagcagctt gccctccctt gtcaccccg a ctttccattt acaatagaat ggggtgacgt 1440
gtccagaagt cgcaatgtct tcatcgcat tgagcataca ccgcaactgga cgctgactt 1500
ttgcggctgc tgtggcgcat atacctgcga gctggactga ccgcgtctct ttaccaccaa 1560
agcctcctcc aaggcgcttg acccttgaca cgatcttggt ggcagccacg ccagtaacct 1620
gtgctacata tgattgcctg cccaagtcag ctttgctcag agaaatagaa atgaacgtac 1680
gtttccgtcg gattctgggt actgctccag atttccattt cgccgtcttc tgctttaggg 1740
atagccacac aagcttgtgt ttctaaataa aaatgttccg ggccccccat tcgagatata 1800
ccctcaaaga catggtcagc gtctctgaag gcgctttccg ggtctccatt cttgatataa 1860
cggaagcttt aaatcgcgca cgttactaga ggatcagatc ccc 1903

<210> 2173
<211> 240
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 2173

acggaagctg acagagtgcg tgataaagtt antgattaga ttcaagtgcg cggttgctca 60
aggagatact gtggncnttg aaaacggcgt cgatttggtg aacaatggaa gagngaggcg 120
tttaacatga tagtgaatga gcatatcgct tgatggagtt agtgtagatg gtctggggct 180
agataatgtn ttggtagtcg agnatgggac agcaggttga canagtaggt gagaacgtag 240

<210> 2174
<211> 3337
<212> DNA
<213> Aspergillus nidulans

<400> 2174

aatcactgcc ctcaactcgtc cgcactccat ggctctcatg gttagcgcat atcgccctcc 60
ttggcgggact tccactgctg cgtcagggtcc cggcttcggc cactttccta tcttgagatg 120
caagccagga cgcgctcttg taccccaacc ctctgtcttt ttgtctagct gtctctccga 180
gttctcgtag tccaataaca gctctgggag ggtcactcgt catgcatttg gaccgttgaa 240
gctctaactt ttgtgctccg caagtaacct tcctgatcc ccatacttcg tcttttacgc 300
tgcgacacaa atttttggcc gtctgcttct ctaagccgtc cgatcgcccg ggtcccgggt 360
aggtcgagca ggccgctatc gctctggggc aggtcactct tgcacctgta tcacacagtt 420
ctctttcagc aaggggcgca aatagcacgc ccgaatgcg tgcgacctcg aggctctcac 480
aaaatctcac ttgagcattt tcgagccacc atctagccct catctctatt tcccgcgacc 540
cgtgggttacc gattgggtgg ctttaattga gctattgcg tcttggtggtg cctagtaaac 600
aacaagagt ttacctgtaa actgcttggt aaaatagatc gtcattgctgg tgcaggtgaa 660
ggctttattg gttagacaac cttagtctcat gtgaaggaat ctatcagcat gtgtagctag 720
gccgtggaac ccaattgaca atatgccggt ctttatagag tcgattctgt ttctgatgc 780
ggacggagcg gtctgacaac taagctcgtt tatatatata gcgcgcgggg agagcttgcc 840
gggcatgctc tgagtttatg cttgaattcg ctctttcatg gcagagacta acccgatcat 900
ccggattgat aacgagacct gtaggaatga atgttactgt gtggttggtc agaggaagtc 960
ttgattacct tgatcgccct gagtcatgag gtcagttcgg gtgtcaaaag gtcggcaagc 1020
attgttcttg catatgggtcc agaatttgat aaacgtagta gatcgtagc ttgaatgaaa 1080
tcttcatgat aactctatac aggtcgtcg ctgctgaggt tgcagtagtc atcgctctca 1140
ggtcgagtgc atggccgagt gagcccaaca ctgctaccg actatcaaga attcggcgaa 1200
gaacaaaaac ctttcatcac aatcagatcc agatcaaaga tcttcaatct ggcagatata 1260
acggcttact aagagtatag tagccgtgca ttccagaaca ctgcaccttg ccgttttgct 1320
ataaacagca gacaacggcg gatggccatc accaccgcc catgcatgat catttcatgc 1380
tcgctctagt cgaccatata caaaacgcag gaaccatttt gaagtctcgt cttgcttggtg 1440
tatcaacggg cggtgacaca gagtgtcat ctgcacctc aagctcagaa taaaagttgg 1500
gatgtagacc ggcttcaatc cggcatctca ccccgttgcc ggggtattga gggcctgtgg 1560

acgtcgatca gtgaacttga tagtatatat cgtatgattc ccttcgctga aaaccgggca 1620
 cagctcacca gccttgacgc ttgccggggc gggggccgca tattgggtcg agctcccaac 1680
 tatgcggtca atagcattct tgacagatac agcagatgaa actccttata gctgggtactg 1740
 tgagattgac ccatcaattc ctgcgtccctg agctcttctc agctagcggt gcccaaccaca 1800
 tacgaccaac tcgggaagaa gaatgaactc tctctctccg ctaaagcccg ctggcgagaa 1860
 catctggctc tacgagccaa ccacgacggc taacaagccc gtccctgata aagatccagc 1920
 actcatcgtc ttatgtacct ggctgggagg tgcgacgcct cgacggatat gcaaatatgt 1980
 gagccaccat cgtcagctct ttccctgggtc tgccatcctc cttatcacga ccggtatgat 2040
 cgatatcacg attcgctcga tcagcgccat tcggtctcga ttgaagcccg cacgggaaat 2100
 aattcggcgg atttttgggc tctatggggg aggcgctgga ggcgctgaga ggaccccaaa 2160
 aggagtgctt ttgcatattt tttcccacgg cggcagcaac atgccttgc agttgatcct 2220
 ctctatgcaa aatcccaggc acccgagcgg catccacaga ctcccttgc aagggatcat 2280
 ctttgacagt tgtcccgag gcaccacttt catg'gc'caat tatcacgga gcgttcattc 2340
 cctgccgat gctcctccgc ctatacagtt gctgagcaaa gcgctgctct tcccagctat 2400
 aggggcccgc actggacttc aagccctagg ggtcatgagt tccatcggcg agatgcaaaa 2460
 gcagattaat gatagcttgg tgatctctgc tcggtcccg cggttatata tcttctcgaa 2520
 agcggatgtg acgatctact gggaggaggt gcaggcccat cttaacgatg ctagaatccg 2580
 gggctacaat gtgtctagt aaatattcca taagagccca cactgtgctc tgatagctga 2640
 agatgaggaa cgggtactgg gcgctgttca acggttctgg gaacagattg tggaaggcaa 2700
 tgcgctggcg gatatgatga cgggtgaggt cgctttaagt gtcccagcgg gtgttcgagg 2760
 aagtaaatta tgattatact gcaagaagct gtttcgcaat gatcagatag cgcacgttct 2820
 atgctcaatt aatccctagg taaagttcct ttgtagagtc tagacacacg attcaggtac 2880
 tgaacggcac cccacattag agtcgccggc agaaaacatc tctctaactt caacctctct 2940
 cctctcttcc atggatcttc tatccatcct ccctgaaatt tcgataaaat cgttctccca 3000
 tatcctcccg ccgctcgaaa gaagcagagt caatacagtc gacctcattt cgctggatac 3060
 cctcgaaatc gcgaaacgcg cccacgttcc ccctgcagac gttcgccgtt tagccaacca 3120
 cgtcataaaa gccctgcaca acgatgtcgg atttgaagaa ggccccgcgc ctgagcagga 3180

acagcctgat agcagccctg acctcgaatt accgctgatt tcaggaccgc gaacgaaact 3240
cgacctatcg caatggcgca cgattagcac tcttgacgcc gccttagata ccctgttgaa 3300
tggaggaatt gcaaccgat atgtgaccga agtgact 3337

<210> 2175
<211> 1255
<212> DNA
<213> *Aspergillus nidulans*

<400> 2175

acagggctca ctttccggaa taaatgtacc ttagaatatt cgcctttgca caacgaggtt 60
ccttgcttct ccaccattgc catatatcat tcttgaatgg tcaggctacc ttatagatag 120
ttatcgcaa tctagtcca agagcccggtg ggatcctcct tctattttgt atccctgagt 180
cgtatccact gttactcaca ccgttatcaa gtcaagaact ataaattaga cgcaaaagga 240
taaactcatgg tattggcttg ttatttcgcc gaccacgtat taataacact acccattcca 300
acataatata ctattttgag gggaaagagg ctgctctag cgctgggtcaa tactaataacc 360
ccaaagggcc gtcagttaaa ctggtgatgg atctagagtt tcatataagg atgggtccatg 420
ctcagatgaa agtacaaatt ctggtgataa ttcgagcaac cctaacggaa ctatccgatg 480
accgatcacg tgcccggccg atcagggcga ttccgacgtc tagctaaacc tccgaccatc 540
ggcaaaccat cacttcattc tattcaactc acattcaaga taaacacctc aaaatgcttg 600
ctcgtgccat tcagcgttgc caaagaccca gattatctct ctatagacag ctgtcaagtt 660
tccgtatcag ccaatccagc ctcccggcag cctattaccg cggcggaaca tcccgcgccg 720
tcttcttcaa ccaagatgac ctccctaaga gccgggatga atgggccccca atctttcgag 780
gagtaatcgg cagtccagat ccctacgggc gccagctcga cggcctcggc ggcggaatct 840
cgagcctgtc gaaagtctgc gttgtcgga aatcagcgca tcccgatgca gacgtggact 900
atacatttgc cgcattagga atcagagata ccgacgtcga cttttctagc aactgtggca 960
acatggtaag tgcggttggg ccgtatgctg ttgacagtgg gcttttcgcc gcacacaagg 1020
acgccgaatc tgcggttgtg cggattcata atacgaacac tggcaaaatt atccatgcc 1080
ccttccctat cattaatgga gaggctgctg cggctggtga actagcaatt gatggtgttg 1140
cggggacggc ggcgcctatt aagctggact ttgtcaaccc agctggatca cggacgggga 1200

agttacttcc gactgaggct gtcaaagatg tcttcgatgg cgtcgaagcg acgtg 1255

<210> 2176
<211> 1464
<212> DNA
<213> Aspergillus nidulans

<400> 2176

tgatttgaat atttctacgc agaatgagca gtcaatgac tcaccagaga tcccaatgac 60
caatgaggag cctgaagtgc ctgcgctagc ggattaacct ccaactagtg cccatctgcc 120
cggttgagct gtctgttcgg aggggctcgg tcgcatctcg atgctggata cgggtgtagca 180
ctgttgacgc actactgcag aggttgcgct actctgtacc agcgttctca ggtcattctg 240
ggctacccca cgtcctacca acaggatata cacgacagaa acaggggtcc cctgcccgcc 300
ggggtgcccc aggcgtcgag ataggtgac tgccccgatta caacttgtaa atgtcacctg 360
ctgggacatc gacgcaatac cccttgcgtc aaccacagga cggtcagcct cgcattccacg 420
tttctcaga gtgacactgc cctgataaca ggaccgtaac cagttcctct cttgcttccc 480
ctcctttggt tgaaatttcc ctgatcttca ctgcggccaa cccagtcctg ctcaagatgg 540
taagatacgt acgctatgct agtcaggacg gatcggcggc gcccaacatg actaacagtg 600
aacaccaaca aagcgtggag cagggcggtg agtattccca gcgaagatct gtcattgattt 660
cctgaggatc cttattgtcc tggcacgata gaggccgtgc tcaggtcgcg cactcgaaag 720
agctgtcaca atagccctcg actagtgggt ttttcggcac ggatctcccc atcgagtcga 780
tggctcgagc ggtctgagtg ggaagaacac ggtagctta gggcaagact acccatgaag 840
aagagtaaata ggaataacta atcaatatta ataataag gatgcggagc cggacttcat 900
gacttggtcg aatcgggtcca ggagaccggc tccattggga cacactctcc cgaccacctg 960
gtcatcagcc caaggatgag ctaaatcgag atttccaaat cactgggatt gcataggcgt 1020
cagattgaaa attatatagt aacaatgaca aggatgtcct caagctagac ggccgggacg 1080
catggacagg gactaagaac aatagtcgtg aaagctgctg cccttagcgg gaaatggaag 1140
cgatggcggc ggggggttaac cgccgggcct gtcgggtact gccttagttc tcaggcggag 1200
ataagcacag ccacatgcag gatcgccgac tccgaggttc gtgaagcaaa ggaaaaagaa 1260
agttacgaac taaaaaaaaa ttttctgtaa gcccaatggt tccagccaca gagtgttcaa 1320

gccacacaaa caagagcggc ggtgctgga gcagtggcgg agcactcgtg gcttgacacc 1380
aactgacaat agcctcaggt ttccaaggtc gaggttggcg gcttctccag tccgaggtct 1440
agtagccac tgttgtcctt agaa 1464

<210> 2177
<211> 1053
<212> DNA
<213> Aspergillus nidulans

<400> 2177

gctatacttt tacttctgtg tcaagatcta agttctatcc accgcgtcta gagctcttgc 60
gcgacacggt agtctccgac cttcagcaga gctccaagac agtttgtgag tgaagccgcc 120
aacagtacac tctccacagc catgtctggc gatactggcg caaaacctcg tctccattca 180
acacgctcgt ttctcgaat ggacaataat tcggacacga gagtccccac tattcggttca 240
agagcgaaaa ccgtacagtc cgtggcgata ccagagtcgg aagactcgtc tcatctggat 300
ctttcggaga gcgaacacaa ccaagttact ggcccagact tgttcgagaa gtcagcatca 360
tcatatgtgg aaaatggcg agacggtgaa acttcagttc tctcgagaa tgtaccgaat 420
cagcaagagg agtccccgat tgagctgata agtcttactg accggtatgg agttcggttg 480
gttctatatac acggccgctg attttcgtac agattcgtca gtcctctcag cgcgcgggta 540
cactcctccc ctccgaccat agaaagaata tcgacgctct tccaagactt ctacctccga 600
gcggaatccc acatagcgac tcatatctct gcccttgctt cccggataaa ccgcgaccct 660
tcgccgcacc taccagatcg gaaagatacc aacgcctcca gccgccagat gttgacggct 720
tcggaagtga cagagaagcg aatagctcga aagcttttag cgtctaagca ggtcagtcct 780
gaagaggccg tagaacggag agtttgcgaa agtatctatg ataagatttg gagacataag 840
agtacattgg atgaagtcag agatgaaaag ttgcgggtcaa agacggcagc cctgcttttg 900
gtcggaatca acctaaatga gcttgggtgc gatatcgaca ttactgcgat cgacgaaaaa 960
agccaaaaag atgctgatga ctgcttttca ctgcgcgtga ttctctcatg aaatgaacga 1020
ggaaggatatc attggggagc ttcgacacct gct 1053

<210> 2178
<211> 2750
<212> DNA

<213> Aspergillus nidulans

<400> 2178

ctgtttacca tttagtgaga agtggctccg tagaggccgg aacattgcac ttacttttcc 60
tttattgcag tgtttgagga taggggtggt ggacttattg agcatcaatc tcagaatggt 120
gttcaccaca cgctctggcg ttttgatagc agggtcctta ttcgcgatga atggaatacg 180
atgatgggtg atcccagttt cttcaaggaa cttctcgtgg ctctgtgtgt agggctcatc 240
aacgagggtg ctataaacca tatgtaagcc atagtccac aatacgtgga caagctctta 300
cattatgggt cgcagcccta gagttttgag cgccggaagg ttccagggtt ggggaaacgc 360
gcaacggtaa attcctttca cgacctcgcc aaaattctca gggagtctta gttttccaac 420
atctgattcc cccgatcca acggcgaaac cgtggtgacc tgtttctcta ttataccggc 480
aaccagcgtt agcttgcaag gaagatacag gtcttcagct gaagaaacta accttgctgg 540
ctttcgttca cattattgat gatcttcttc gtcaaagggt aagtcacgt gaaggcgtgt 600
ccagagacga taggtgaata actcgacctg tcgtccaggg tcaaaagaag agacaccgtt 660
ggaactatcc agagctcaga agagagtgtc aactcctgaa aaccacctat gtgtcgaatt 720
gagaggaaag aagaatgtga ttgcaaactc gacgtagacc ggaagtctag ctgtcttttt 780
gaaggccaac catgttggt gaaggcatta aatagtcgag ctgaacagaa cagacgacaa 840
aaaaagctgc tttttgatta acgttcagtg agtttcagtg agtggaagag atgttgggag 900
gtaaaggttt ggtgttatag taaaggtagc ggggcggtga ggtgtgaaga gaagtaaaca 960
agtgcagat gctgcagaaa aaaaggcttc ttcgtgtgca gtatgaaaga gaagcaaatt 1020
aggcacgaac agtgatcaag gacgcttaaa atctggcaaa aaacaaagat gtcaaggtag 1080
gtaagaaggc atgagaatgc ttagtagcgg aatcacagta ctaaagacat ttctataacc 1140
ggcaatatga taggggtggc tccgcgggaa ggtagagttg cttgatgagc tgcataaggaa 1200
agtgctaaga cagagagcgc ccagtgaaaa tgaaaggga gatggtggag aagggacgaa 1260
ggacggacgc cacaacggg catttgtagt gcatggcagt aaggagagt gccgtctagc 1320
aacaccggaa tcaacacttg cgagacttac tccagaactc gtttttagttg gtggtgaaaa 1380
tttgccctg atctagatct atacagccaa aaaaaaaaaa aaaggaaaag taaaagctc 1440
gtccattct tatccacaag cttggtatta taattcactg agttgctgag aaagcagcgg 1500

gtatgctttg aggaaggaac taaggagcat cttctcccag ccgaacatc ttgatcgaat 1560
 tggcccacgc actgagagtg aggattagca gtgaaaatat cagtagatgg gaaagaagac 1620
 ccacgcttcg caaacctctt ccacagtgat tcccttgacg ccagcaatga catgcgcaac 1680
 ctgagctatg gcaacaggct catttcggcc ttgaccatg catccctttt gccatttttc 1740
 tttcttgact gccttcggta aggggggtgc cccatctaag aatttcgacg aggcgtgcca 1800
 gggacggatc tcacactgaa agtttaaaaa atcagtaacc atagataaaa tatggcaatg 1860
 aactttctca cccaaggacc atccgtctca atctgaatac gctccaatgg aatggccttt 1920
 accacttcca agttttcttc tgtcttcaga ctgcacccgt tgaccccgat gtccagacca 1980
 agtgcgacca gtctttgcat ctctccatt gtccctgtaa agctatgaac gagtcctcgc 2040
 ttcggaagct tctccagcct ctgtgtcaaa agcctctcaa agtcttcgct ggcggccgc 2100
 gaatgcagga agagtggaag ttgaatctca acagcaagat caagctgagc ctcaaagtac 2160
 tttagctgcg gttccttggg gctcaagaaa agcctgtcat aatccaaccc aaattctcca 2220
 aaggcaacgg cgtgacctgc ttgcttcgcc tccagcgcta acgaccgaag ctctctaac 2280
 agtttttcog ggccaccggg gaagctgtcg aaaagcttgg cttgacaagg atgaactcca 2340
 accgttgc atgcagaagcc agctgctaga cgtcaatctt tatgggtctga agaaaggggc 2400
 actcttaaca tacggatttt ctgagcgatt tcaatggcac gcttgatttc ctctagatca 2460
 gagccagtta ccatgaactt ctgacagccc acatcgcgtg cgcgctgaac gatgtcgtcc 2520
 aagtcactct catggacttc ttttccatga taattgccct ggaaaaccgg atcgctcagg 2580
 ttgattccga tctgagtttc aagcctctaa ttagctttca aatggcgaac taccggacac 2640
 gaggtacaca cattcacata tttgggggtg gacctgtctc acccatctga acaattggac 2700
 agatgccgat gatagcacg cctcccactt ggcaattgca aaaacacgaa 2750

<210> 2179
 <211> 3751
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2179

agcaggtgag gattaaaata agattttttt cccaacgaa agcaattgct tttccacat 60
 ttagccggat tttgggggtat ctttactccg acactaggcc ctctcaggg ccccttggg 120

gacccccccc cagagaggtg gtgttatcat cacctaattt gttacagcgg cttcgtgtct 180
taaactgagc tttcacggta cttggactag gtttattaaa caggaaatgt gaatgctcat 240
tagcataaag cgccatttag gtatctgctg gagcaggtta ccggagaagc tgagtaaata 300
agagttaaaa tgtgcgcttt gtgttcaaga aatctagtaa atcacctttt ggtttttgac 360
cgttaacatg aaagaaagcc taggtcatcc atcgctggct atcaaggtag ggagaaagtg 420
gggagctatg acgcacgtga tagccgccgt cttatcgat aagcttatct gaaaagaatg 480
cggcacgtga ctctggctgg ccgagatcca gtggaaagct gaaagggttt gattgcattc 540
agcattacgt atgaaagtat tgaggccgca gtagatggaa accggtttct gcagtatcca 600
aatatggtat gtcgtcttta acgcgatgtt cgggtgggagg gagccagtgg ccggtccga 660
catccagatc aacgagcaaa cgaagagagc accatcataa tgcaagaaat gcacagatct 720
ggccttgggt atacaatgga tagatcgtat gcatgcaatg caccttaa at ttgcggcagg 780
cggtcatggt cgccgccttc agagcccgac gacaagagcc tcacctccat ttgacagatc 840
atcctgatct tcaagaagaa cccccagtc aagcgtcaag ccaaccaaca ttagggcctt 900
ggcttagcag atcaatgctg gagagacaat agcgccgtcg aaattgaaaa tcaccagatg 960
tggtgttgtt tcgtgaagcg ccgagagctt gagctgcgac ccatcagcaa gatgaggtgc 1020
agtcttagca cggaagagc gtccggacga aatgttgga gccgatctat atgctcgtaa 1080
gctttgccac tgcgctggcg catagtagtg cgcttcggcc attgtccgga cttcggagat 1140
ttttggtata tgagtactaa acggttgctt tcttttgcct tgcgcgccgc caaatagaaa 1200
tgagacctta atgataaagc tacggcctaa atgcggctgg gctgttaatg acaggctgcc 1260
actatggtct cgagggctca ggccggctta ggcccaatgt cgccctgagg aagtggaaag 1320
tgtacgtatg ccagccctat cacctcaatg tctgtacagc tgtagcaagt cattcagact 1380
tgagggccat tcaaggcgtc ttacctagaa acaaagcgag gaaggagcca accaaccaga 1440
gccaatcgaa ccgaccccat cttggccgaa ctagtcgaga tctgtacca cgtcgggtggg 1500
tcagactcga tgctaata gcaacgcac atggatgatg ccagatgact agatcgtgat 1560
gctccgtgcc gattccaaat catattcact cggaagattc ctagcctgtt ttcaaaatta 1620
ccgtcattac tgagaccac aaggcccaac caagaaggca gcaaagcaac gatccaacat 1680
ctgggaggtc tgactctaag aatgaaatgg cgtttttgac ttaatcaacc cggtaagat 1740

ccaaagcccc cttggccaaa catccccata cagagatagc gtagtaggga actcccagcc 1800
 tagttcgcaa tcaaaccatt ggtctgatcc agatctggcc caggaccaa cggatcgttt 1860
 gcacccgcat ccgcccggcg cgcatttcat gtaagagaac aaaccactga caaacagctg 1920
 attgaggtcc aagtcctgca ttggcagatg gagatcggaa acgataagaa ttgtcagaga 1980
 ctgagcacta gcagcgattg cccgtcttgg atttcacctc caccacgcag taggcgtaga 2040
 tggtcgcata gtggatgcgg accggcgatc gctgaactga attcgccgtg aacttgatct 2100
 gcgccttata tgtgatgaat ggttaaagct agattacctg gttctgggta ccgatacggg 2160
 acgcgaactg cagtacagat tggctgataa gtaagataag gttcgatatg ttcctgaaca 2220
 ttactctggc tttgttgca tgcactgtc gatctgcagt cacagatgaa agtctccatt 2280
 acaaggaaaa agaaacgaag ctgagacctc aagctctcag acccaagggt ggcttggttg 2340
 aaactatcag atggaacttg aaagaggtca gtatttgaaa tcaacccac ctcgctccca 2400
 ttgaagctc caggagcccc ctactggagc tgtgtccacc aacactgaca cgaagtccac 2460
 actgttttcg agtagtgatt agaaacggtc aggatccagg acgaccggcc ttgaccctcc 2520
 tgtatcctga tttgaagctt gctgctggct gctgcatagt gcatggctat gtaccacca 2580
 tgcagtaata agtcatattt gcatcgtctt ggtgaagca taccataatc ccctcgtgtt 2640
 cgtaaaaatg tcagacagca cggcaggacc agcgaccccg cggccccagt ccatactgac 2700
 tctgacttgc tgactcgcag caaattgaaa taaaccgggt cagtgggtat tgaaattcaa 2760
 attcatccat atggttacia cctttacgca tgcgcaataa atctgccttc ggactctgcg 2820
 aaaatgcata ggcccatccc gattcccgtc tgagatccag actaagatac agactcgaaa 2880
 cttgcggtaa ggagtatgga taggtccgat ccgtggcgca ggtctgcttc aaccttcaga 2940
 ttcagatttc aagacatcat gaacaggtgc caacaaccac agcaggctta cagccatct 3000
 caacatgtcc atgtgcggca gctatacggc ataatatatc ccggagttgt attccgagta 3060
 tttcaaatac tcgtgaccaa agcaagattc tggcagcagc gataaccctg aatatgattt 3120
 actgttttgt gcaaccatcc cagacatgcc caaaaggaga ggcttggttg atgctgtacc 3180
 aacatccaac gttgcgcgtg caacacacca tcccagatcg aacctgaagc gcgagtcaac 3240
 tctgactgac gcagataaga cagacaccca ggccatattg aaacaatggc ctactgcagc 3300
 gctccatgat catcaactgc ttgtccgcca accttgaaag ccgaagatga tgttgtgtta 3360

ccgtaacact cgatcaagct acaggaatag cagtgcata tggcgtccaa cagtcagcag 3420
 gttacgtatg ttttcatggt ttgatattca tgctctctat aacatctgaa tacttcagat 3480
 atcacctttg gacgtgggat tgttttccga tgcccgccat ccgtagctat cgatgaggat 3540
 cgaacatgaa tgcggtctcc tgatcgtaaa tacacgggta tgttcgggtg ccagctcgat 3600
 aggtaagttt tcttgacaaa cgtgcgttgt cagagcatgg aggaaaaccc aaaaaaaaaa 3660
 aaagaaagaa aaccaaaca aacttttttg taactgagaa gtgatggccc aggcaaagtc 3720
 gtagcgatag agtaattagc cgtatctata g 3751

<210> 2180
 <211> 3005
 <212> DNA
 <213> Aspergillus nidulans

<400> 2180

acagaggcag aagccggccg acatgctgtt agacaggggt tttctggcag caataaat 60
 atttgagtag gatgaatgat tgaagtgtt actgcagtat tatgaaccga ccgaggggtc 120
 attcgggcta tataccagcc ttgggcgcgt cagtgccatg gaaacagggc tgcacgccag 180
 gcgcgagtgg aggtgggggg aggagacca gtacatagcc ttatgcctaa taacttttaa 240
 ttaattacct tgtttaagac gtatttttgt aacaggaagc gtaagcgccc aaggtaggaa 300
 agggaagttt tactgagagc ggaacgtgct gataatcgag caggcccacc ggtcagattt 360
 ctgcagagtg tagaagccag aaaccttgaa ttccagtga cacgtcgagg tcagattgct 420
 tcaggctgtt acagcaaggc atagctcaga ccataggggt caatggatga tcaaggctgc 480
 tgaaggaacg ctctctgccg acgagtgcga ttcgattttc cgccagctag acccaagatt 540
 cattccttat gatggccaca aagtgatacg caaccggaca gtatcattta cattgcccgt 600
 tgccttgagg gcttattatt cgccccttaa cacgcagaga tttgtggcgg ccagtgacag 660
 aaatgtgctt ttgggcactt ggagctagaa atgcgctgcc gtctgtaact gtagaaataa 720
 aaatatagag atccatcaat ggaaaaatca ataaaataaa ataaaatgac ataacaactg 780
 gaattgaatt tcaagtcagc ggtagtctct tctgtctttg tgctcgatcg agcctttgct 840
 cgcgtgggtcc acgatgagtt agcaaccctc gtctgtgaat gccccgtagc ctactccagc 900
 cttctcagcc gggtcgaagt aaaccaagtt gttgaccgcg tcaattgatg gaatgccgaa 960

caggtctacg tttatctctt cctttctcca agtatgtctg attgccgctc acctcgtggc 1020
caaaagccca acgcccctct gttatgaggg gacgagtaaa ccgatgagga gtggctcctg 1080
tcaatcccag tttcgtcaat gactgagcat acaatagtgc gcacaagcca gccataggac 1140
tagcgcctaa gcggacaatc gtgtatattt tatatttcac gtatgtacag tacatgaaca 1200
tctgccctcg cggtcgaacg ccagtctcat ttgtcctgag taggtacata taacaaattc 1260
ttttcctgaa taagagccca aatccgttcc tcgtcacggg aaacgcccag tttcacaggg 1320
ctcaacagct gggccagtcg gaaggcaaag aacctgtta ctggcaacga gtaataatgt 1380
cgtataccgc tctagacctt cttctcgtcc attgccgact gcctatggtc cgagattaga 1440
aggagagttc ggctttcatt gaaagccgcg tctacgcaca agcgcgctg gtcaatccgt 1500
ctccgttttg gaccagttgc attcagggat gcagggaact ggtaggaacg acgagcctt 1560
agagccgtga aaggaactaa ggtagatata ccatcaaagc tctttgagac gctgatcgca 1620
gggactgatt ttcactggct gacgctgact caaatctacg ccgatagctt gctcagcccc 1680
tgtgcttttg tattggctag ggcgatggaa gcgaaaaggc gaaagagaag cgggtgtgacc 1740
gctcaaaagg tgctgctagc ttctgggtga gacgctacag actatcgga ggcgtttcca 1800
gcgctctact ttctaataatt tcggctgtcg accgtatagt ttaaggagaa cactatccag 1860
tctgctttga gattggctct ctgccgttaa ccttctatc ttaataattag gattaagact 1920
gaagatcggg ggcaagagtt gaggcccgaa gaatactctg aaatattacc ctgacggggg 1980
acgggtgaaa cgaccaccac ttccagtata gtccccaac tgagtttggt ttggagtcga 2040
aatataatgt tatactgcat tctctagctt tgctttggta ctctctagtt tcggcatcaa 2100
catcgcttca gaccacatgc ggggtgtatc tttgtttca cattgcagtg catttggctc 2160
agtagtagca acttccctct acctactgca tatcaagaat atattactcc ccttcagtat 2220
acatggcatt ttcgttttga actctacatg gccctttgc caatattttc aatccagcat 2280
cgtctacccc gagttatatt ataaggcatc ccagcgagtt attggtgtct gtagtacatg 2340
cttattgcct tgcccactgg gcaaacagat ccagcattcc ttgctcaca atcccgaat 2400
catccctgaa ttgggtccagc tcgccaacaa ctttattata agcagttctg aggtcgcgca 2460
actcaatttt cagccgcgag gttttcaacc gtaactcatt gtctcttgct gtttggcaac 2520
ttgggatagt cggggcattt ggggggcagc caatgttgat caggcgagcg tgtcactagt 2580

tccagcgtag ctgcggctgc ttctactgca atgacagttc ttggagagcc agtgaacagg 2640
 ccggatgagg tggcttgtcc ttgcattgca tggctctgggt ctggcgagcag ctggccttct 2700
 atctgccagt tcaccctccc agctgtgaca ggcggactgg tttgtgcata tgagggtcct 2760
 ggaaccatct cagacagaaa tgatacgctg ggactaacat ggtgcgtaac gtcggtgcct 2820
 ttccgtcctg gcgacatggt ggatgatact ccgattttct caacagactg gcgtggtcct 2880
 gccgatgttg ccggcactac agtctcctgc tctatgtgtc gttgcagctg tccgggctgt 2940
 gcctgaggta cctaaattag ttagagaagc gatcagtagt gttcaatctt atagctagtg 3000
 gataa 3005

<210> 2181
 <211> 1617
 <212> DNA
 <213> Aspergillus nidulans

<400> 2181

cgtttgtgaa gttggcgatg tgacggagag tcgagggctg ggtgcgagtg aggagtggtc 60
 gtcttccgtc aaagagctgt tgaccggatc gtggccagct gctgtgtgag cttcgagacg 120
 gcgatgcatg cgctcgattt tggcgaactt gacgctcgcg tcgtggatca tcttcttcac 180
 atctggtcgg gagagatacc ggcgcgtggt ggtactgatg tctgcgagggc ggtgccattc 240
 gttcattcca aactcgccga caccgacttc gacgttcagt cggtaatagt tgtctttggt 300
 gacaccgcgc ttggggagggt gctcccggag catggcgtgg tgaatgtcct cgcagccttc 360
 gatcttggct atcagccgac ggcgcgcctc ggcaaatgtg cccagagcgt cgccaaagaa 420
 gtctctccac cactcgtgct ggcgattatt cgtgtctgga ggacgcttgc ctgtaccgac 480
 actgatgaac actccaatct ctgctcccg cactcgata aatgctgctt cgtccaagac 540
 ctccggtgcc ggattgtacg tgcccgtctc ttcacgata aaataatgct gaccgatctg 600
 aataggcttg aatgcgagcc cggtcgcaga cgtcgcgcga ccggcctgcc agatagtaca 660
 atgctgttcg gggcgccggc tccttgcgag agtcatagga ccgtagcaac accgagttgc 720
 cgttcttagg cgtgccccga tacaccgcg tcacagccgt cttcgtgcgg ttctcccgg 780
 tatcatacag cagcgcatct ggattcccc acctcaacct gttgatgaac gcagaacttc 840
 ggttgttaat gcttgaatgc gttgtgctct ggctcgcccc actcccggac cgctgcggga 900

ttgacgtcgt cgagaaattc ggactgaagg gcgcataagt aggggatggt ggtgacgtgc 960
 tgtcgttccc ctcggtctcg tagattgtat gttcccgcac gcactcccgg atcgctctct 1020
 cgagtttcga cgccttgaaa agcgtcgacc gaaaagggat accagcaaac gtcttgtctg 1080
 tctcaaatac acggcgcgtc atgcgcacat acacatcctt gcaggtctcg aggtccaggc 1140
 gtaagcgccc cagcatcaga gcaatgagtc ctccggttcc tgtgccggcg atgaggtcga 1200
 agtagtcgca tggtttgggg atctggtcgc gtcgcggtgg tttgccttct attccacat 1260
 agatacggtg catcagttcc tggagcaaga tgagcatcga gtatccccgc acaccaccgc 1320
 cgtctgtttc atttactgt tagctgcgtt tcgtcattga agaacgatgg ttgccggagg 1380
 aaggaacctt accgagggac agaatccgaa ggggagggcc cttggtggta tctttgcggc 1440
 gaacttggtc catggcgatt ccagtcctcg cacagcagag agtgaagatg agaccgggt 1500
 tcaaagataa caaaagtgag caggcgtgag gaggggagac gaagttgagg tgggtgcagca 1560
 agacttcttg cacagccgca gtttgtgtct cagctggtgg ctaattttat gcctaac 1617

<210> 2182
 <211> 2483
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2182
 atcgccatta ctgatatcaa cccaagtac gtctggggag gtgacgccat cactctgaac 60
 gacgtggata tggctcggat cgaccacgtt actgtacgtc ttacttgccg acgccatacc 120
 ctaaccctat cagtggctct acggccagga gtatatgcta acgttagcaa agaccgctcg 180
 cattgctcgt cagcacatcg tcctcggcac cgaagccgac aaccgcgtga ccatctccaa 240
 ctcgttcatc aacggtgaat ccgactactc ggccacttgc gatggttacc actactgggg 300
 tatctacctc gacggctcca gcgacatggt caccatgaag ggcaactaca tctaccacac 360
 cagcggtcgt agtccaagg tccagggtaa cactctgctg cagcgtgtat gtccttcata 420
 ccaacaattg aagacgatct gacaaagcta atgcgaatag gtcaacaact actggcacga 480
 caactctgat cagccttcg agatcgggtg ggggtgcctac gtgctcgctg aaggaaacgt 540
 tttccagaac atccccaccg tggccgagga cccattgag ggtgagctct tcgcttctcc 600
 ctccgaatct gccaacgagg tttgctcgac ttaccttggc cgtgtttgct agctcaacgg 660

gttcggcagc tctggcacct tcaaccaggc cgacaccgat ttcctcagca agttcgaggg 720
 caagaacatc gcatccgccg actcctacag cagcgctcgct tctagtgtcg cctcttctgc 780
 cggtaacacc ctttaaaactg tgctgctcga gtgtcggtcg ctggctcgagt ttggtgggat 840
 aagctatggt aaagaagagt tcgatcaagc ttgtaactta cttattcgcc ttgtaaatta 900
 cactgcaatg cacggaatct atgctgctca gtgggcaaaa aaagtgtgcc attaggttgc 960
 tagcaagcta ccctactagc caattgcctt ttcgtctctt ttttttttcc atagtaatac 1020
 atctaaggat acattccacc tgtgcctatt gcacaataaa caaagccggg ccatagactg 1080
 tcgctcgagc cactgcctcg gcattggcaa atgggtccct gcgatttaca acagccataa 1140
 ccgtcagccc gttcatgagg aaatcgtcga atgggacaac gacatcagca gttgacttgt 1200
 gcccgtcaca agcgacaacc tgcagcgggg caacgatggg cgcgttgtgc tggttgatgt 1260
 atgcaacca caggaggctt tccttcgact cgtcggaaacc gtggctccaa gagatctgaa 1320
 tcttgtgtgt gcgggggttca gggcgagtca tgatctcaag aggctcaaag atccgcagtt 1380
 tgatgtctcc gaggttgggg caggtgccgg gaagggcgaa gctgttcgcc caggtaaagg 1440
 cgaagtgcac atcgcttgtt gtcagagtcg ggacctcgcg gggactgtcc tggaagggtcc 1500
 ggaaccatcc ttgctgggcg cccttgggtgc cgattatgcc cgtcatgatc cgcgcaagg 1560
 ccgcgtcgcc gtgagttgcc aagcgctctg taatgtcctg gagggtagca agcgagttag 1620
 aggtaaagg gttagccaga gcaatggctt catcgatgtt cgtgacaggg aaccagtagc 1680
 ggcacggctc aatagttggg atgccgaagt gttgcagggc attgttggct gtaagagcgt 1740
 gtatttcctc ttgctaagag ctagtcagcc tatgacaaat taataggaga tcgagacaac 1800
 ctaccgcgag ggtggccatg aggctccgaa gggcaaaactc tcgctcagca tcattgatga 1860
 atacgtaacc aggaacattc cggtgatgt tcccaataag ctggtcgaag aaagcaacct 1920
 caacgtgctc ttggaaggcg agcagttgca ggtttgtgat ccccgcgggc ctgacgttgg 1980
 tgggcagagg taggccggga agtgtgcat gggcggttg ctctatctgc tgaagctgct 2040
 ccggactggg atgaggcaga ccatgtggga gtagaggcgt gttgtcaacg ttctctgctg 2100
 ttggggcagc gaatgcaaat gagagggatg gtaccaaagc aagaagtggc gaagagaaat 2160
 gcattttgac gatgggtaag taacaatacc aagatcagaa cgtggacaag atagaaatgc 2220
 aaagataact gacaatggtc tgaaacagac tgtgccggga cgaggtcaat aatgaagaag 2280

aacaaaactc gagaaggaa caggcgcttc ttttaagctg ccggagcatg cccatcgagc 2340
 cttccaattc tgtgtccttg gcgcaactgc tggctgcagg cgggccagta cccagaaggt 2400
 aagagaaagg aatcagcatt ttataagtga accgttcggt tcgatttcct ttgcgcacaa 2460
 atctcacagg gagtcctggc ggc 2483

<210> 2183
 <211> 1399
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2183

gctgatctag agcaacaaat tgcccagctc aaagcggata tttctgacct ggaagtgctg 60
 aaggagatta atgacgagct cgagtggaat catgttgaga cggagaagca attgcaagag 120
 gagatcgagt atcgggaaac gctctataac gatcaggtgc acaagatttc gcagcaggat 180
 gaagtgattg aagatctaga atacacactg acgcgttttc gagagcttgt ttctaactctg 240
 caggcagatt tggaggatat gcgggcgtcg caacaaataa cggaggcaga ggccaccgac 300
 cttacagcac gttctagagc gatgatggat ctgaacctca aactgcagtc gtcagtcgca 360
 aaagcccaga caaaaacgat cgacatcgag ctcaaacgca tagaagccga ggaagactct 420
 caacacttat cgattgtgaa gctgtattta ccggaatact atgagaatga acggaattct 480
 gtccctgcac tattgcgctt taggcgagtc aggtcgaagg cgtcattaat gggtagcact 540
 atcgagggaa tgatatctga gcaagcgtct gtccctcctg ctttggagga catctttaac 600
 gcgcctgatg tcttagagaa gcttctctgg atagactcta tctgcggtcg atttgggagt 660
 tacatcgcaa attgttctgc tgagagcttt tccgatatcc aaggtgcttt ctacgaactg 720
 gaaccggttg aacgtacgtt gaatttctgg ctgaaggcc taaagaagaa cgagataaac 780
 atgaaaaagt gtgcggtgga attacagaga tccattgctc tactttcgca tctggcagag 840
 acacttctcc caacttcctt ggagacattt gctgatgaac tctgtatgag cagcagattg 900
 acccagtcac acattgagaa ttcagtgtcc tcaatgtcgc gattgctctc attactgcag 960
 tcgaaacttc cgaaagccga ggaaggcgat gaagaagcct cgtttttggt taacaagatg 1020
 gagggcttta tctctcaggc tcgcagcttg aaagttgcta cagtgaagat caaccgtgcc 1080
 gttgatgatt taaggtaag gtccctggct ctttctcatg atgcgtgtgg tcctttcaag 1140

caagcagaga atgctgccaa agatcttgca agcttatcgc gacaaatggg tgagaatatt 1200
 gtgcaattaa ttagcgatga cagtcgtgcg gagcccatTT ccttgcaaga ggttttgacg 1260
 aacatgtctc aaatatctgc attgtaccag tcagaagccg cagagaacaa cgatggcatg 1320
 tcgtctattt tcaccatgct acgcagcctg agcggcactc tcgaagaact cggttctatt 1380
 tcgtctgact tatcaatta 1399

<210> 2184
 <211> 1258
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2184

tcagacaagc aaactctcca gatgccgagg aagaaatccg ccggcttaaa aatgagatcc 60
 acgagggcgtc ttctgcactg ggcgtcaaag acaaaacaat tgaggagcaa gccattaagg 120
 tagagctcgt cgaatccgc atgcgtgagg caagcaagaa ggcggctgct gtaagggact 180
 tggaagcaaa gattcaggaa atgacaacaa agaactctgc tctccaagct gtagtggaag 240
 accagcgcaa agacttgcaa aatctcgagg ccgaacggga cgaaattaaa gcccaactcg 300
 acagagtaaa acgactttcg ggaacgcgtg gagccgccgc atcccttggc accgtcgttg 360
 acaatgctgc ctccctagca gctatgcaag aaaacgaagc tctccgcgca gagatcgcat 420
 cctccagtc cgctgtccgc ttctccgcg aggaaaaccg ccgccaaaca atcctggatc 480
 cgtactctgt gcaacgctcc tcagaactct acgcctggct cgatgcaact cttacgaaga 540
 aacctgtccc tccagcccag cgcgaaaaga tttagcaaac cgcacggaag agccgtgatg 600
 tcctctcgca tcttctcaaa cttactaaag agtctagtat tgcctgacct aaggccagcc 660
 gccctaactc tggcaccgcc agcggctggc gcacgtctaa ggaaaagctc aaataccagg 720
 tcctccagca gcgcgagaac tttgaacggg gggctgagtg gaagaatgag gttgtgggtc 780
 tcgaacgcga acaggataga cttgtcgctg cgaagcagga gagggctgcg aggggtggac 840
 gtgcaggggg ccgtggacat gcttcgcac cgtctatggg atacggaatg atgggacgag 900
 cgtggcaaat ccttgggatg ccaccggatc gcaaggcaaa aactgttcag cctgttgagc 960
 gagcaattaa accaacctta tagcagacct tttctatggg atgcttagcc atctattttc 1020
 gttgtttcgt gtggacatgg cacactgtac attgttctta taccatttta cacagtgtag 1080

attaaacttg atataccttg ccactatggtt attcacttcg cgcatgtcta cctactcatg 1140
tagacaaatc cagaaagtac aaaggccccc actatgtcaa tcatctagta tttaaaaacc 1200
agggcaaat agacctaaca ccaaggaaat aagggaatc aacgatcaag agaggccg 1258

<210> 2185
<211> 3990
<212> DNA
<213> *Aspergillus nidulans*

<400> 2185

accataagat gatggtaatg cacacggata cggtgaattt gggagcctta taaacattgt 60
cgggcttaca tgaaagttcg attgggggac ggggagtgcg acaagcacga attcactatg 120
acacaatatc acaaccacgt tagtcaatat acgcctgatt ttattctacg gccgttttgg 180
acgtcttatg gatagggaca gtatacgact cgaatcgag cggcgatgcg atcaagacca 240
acagaaccag tagccgatcc cttagatctc tgttcaaact caatcaccca cgcttgagca 300
aatttcattc tccattcggc agcaaagagc gcgcgaagga tgatatcaat ttgtcggttt 360
tgtccgaaac aagggtgcat gagaagctct agtgtgaatg ttgtatcgtc atcgggatcg 420
tagcgaaggt tcggttgga acctttttct tgcgcattag ccgagaagta gggcaagata 480
aagaaaggga ggatagctta cctgtcgaca cgttgagagg gagggaattg aggatcctcg 540
acgcggcata aagatcatgc ctagcccccac gtgaccaact atgtcattgc acgttgtgga 600
gcttcgaaag ggcagcaact tccacatttt cctggctcca cgaggtttga tgaacaaagc 660
tgtatgatgg taagcctcct tcttcattgt ggaacaccgt aactacgaga cgaggcttca 720
tacctgggtt ttatgaaatg cgatattgac aaacttecta agatctagga acagcacatg 780
at ttgattga taccggcgca acggctcctc gatagaatag aacgatccac ttgagatgg 840
catcctggat ccaacgacag aacaactcac accaggtcca gctcgctgca actgcagtgc 900
tgtccggagc tgctgttgca ggcgcgatac tcggttttca aaaataccgg agacgagaag 960
ctgtgaagcg gttaaaggct tctataccaa caatcgatga gaagcaccgt gcagagagcc 1020
tgaatgaatt tggcgccgca gtcccgggac catactggag caaagaggat gaacgtgggtg 1080
cagctcttgc gcggagggcg caagaggggg actacgatga gggtgagaag ctactctttt 1140
ggaatgagca tggcaagcgc acaagctaac cctgttctct ccggtagagc ttatcctcga 1200

gcagctcgcc cgaaaccgcg tcttctaaag gatgagggtc tcgcaaaact ccgcgacgcg 1260
ttcataattg ttgttgggtg tgaaggcgtc ggctcgcatg ctgttgcttc gctggctcga 1320
tcgggcgtat ccaaaatccg tttgattgat ttcgatcaag tcacgctctc ttctttgaat 1380
cggcacgccc ttgccacatt agcggatggt ggaacaccca aggtacattg cattcgcagg 1440
agactgcagc agatcgctcc gtgggtgaag ttcgactgcc gaaacgagct ctttggcgca 1500
tctgctgccg atgacttgct ggcacatgg actctggacg atgccgacaa aggacagaag 1560
cccgctctatg tgcttgattg cattgacaac atccaatcta aggttgagct gctgcactac 1620
tgtcactcgc attccatccc ggtgatatcc tctatgggtg ctggatgtaa atcagatccc 1680
acgcgcgtca tgatcacgga tatgtcagtc agctcagacg accgactttc acgcagcacc 1740
aggaggaggc ttaaactgct gggagtaact actggtatcc cagtgggtgtt ttccacggaa 1800
aagccccgcc cgggcaaggc gacactattc gcgctggcag aagaggagt tcccaagggc 1860
taggtaggcg acgtatcaga actgtcggat ttccgttctc gaatcctccc cgtacttgga 1920
accatgcctg ccgtctttgg atacactctt gcaaatcacg tcatttgoga gatctctgaa 1980
taccaacag actatagcat gggtggttaag ggcaaagaca agctctacga caccgtccac 2040
gcacagctac tgggtaccct tgaacgactc gctcgagcgg aaagtgaatc aggcacccag 2100
cctattggac tgcgtctccc gatgagcaga gacgatgtca tctatctcgt tgacgagatt 2160
tggcggggca agagtgtcgt tactggactt cctagtcggc tagcacttac cctatggaac 2220
cgaccatcca atgggtttta gccggatccc caatgggaga aagaagggca aatcttgatt 2280
ccattcaagc ctgaggattt agtgcttatg accaaggagg aagccacccg ccatgagaag 2340
gaagttctta tgggtggaaa gaaggtcgaa gacctgtaca gcgaggagat tatccagaag 2400
gtgaatcagc gccagaagga gatggcatat tatgagcaat ttcgatgatt gtatattaga 2460
attcgtggtg atgattctta agttagagca tggccgttat ctactcaaca tgataagacg 2520
aaaatgtaaa tgcctagtag ccctgccaca agatctgtta caaggcacia ttccagcgcg 2580
gcaacgaacc attggtggtt agtacaatat taatagtaat aacagtggaa actaggacga 2640
cattgtacaa tctgattgac tgaagtgaga aacttggacc ccttaaggcc aagagctaag 2700
cctgtgtagg gttgatctcc aggccagttg tcgctacatt ggaaccacgg cacacgacac 2760
ttgacctcaa caacaactct tcacattcaa ttgaaactct cgtattttcc cgtcccacgg 2820

gaatatatcc acattaccca aaagaaattg tcgaatcgac ccaaggtatc gccaaagttt 2880
 gcctacatac tccagtcaaa tggcagaccg cgaccgctcg cgcgaccgcg aggccctcga 2940
 catttccgac gacatctctg aagacggtct atacccccct catccatcat catcatcacc 3000
 gccaacgcgt ctgagccggt tcgcgcggcc gttaatcgac tacgtccgta acgagtggca 3060
 atcaaattct ggtgcaaaat acagccattt agggagcgcc tcgtcgaatt ccgtctcgga 3120
 ccgaaccgac gctccgagat gggtagaaaat cgtgctgtcg atcgttctgc gccgcgtttt 3180
 cgacgatacg tgctcgttta ccttgctctg ttgggggctt gcatattggg gtggcagttc 3240
 ttccctgttt ccgcgtgtaa aggagaactc ggcgatattg acggcgctag atccgaagga 3300
 gaagtcaaaa gttggaggtt ggttcggcgc gaatgcggtg ccgcagttgg aagacatgat 3360
 tcaacttaag acattagatc cggcactgct gccggccagg gaggcgaagg aggatgatag 3420
 taagcatagc tcaaggagat tagttattgt tgcggatgcg cacgggtgca aggaggagtg 3480
 tgcgtatacc ccagtctctt taccattat tttggtggcg ctgacatcta ggcaaacagt 3540
 ggaaaaactc ctcgacaaag tctccttcca ggaagaacgc gaccaccta tcttaccggc 3600
 gatctcattg aaaaggggcc tgacagctag cgtcgtggac ctcgcccgc actacaacgc 3660
 ttctgtgtcc gtgtaacacg aagaccgctt ctgtactcgt aacacatgct gagtcatatc 3720
 actgcgacta tggacatggt atcaagccgc aagtccggac taccgtagtt gcgcagcaag 3780
 aaagctgacc tgccgtctcg atgtgacaac acaaattggca gttggcccag ccgtttccag 3840
 ctgttctgag agtcctcagg agaataactg attccacccg cagcttttaa aggacggtat 3900
 gccaccctat ttatataaat aaaccctgct aaaaaaccct ctgaaaagta taacttattt 3960
 ctgtcatgcc ttcttttttc ttccctctac 3990

<210> 2186
 <211> 1205
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2186

aaagatgggc tgcgttcaag ccgcttagtg acctgttcgt tatccatttc cattgacgcc 60
 tctgtccaca agatgctgtg tgcttatcct acgcctgttt ctcgtcatgt tcaggctttt 120
 ccggttcttc attcgatggt ttctccaaac cctttgcatt ttatgttata tctcctgcag 180

ctctgttat accgatgata aggcctagcc tgaacagtca ataactcaac cagaagtcgt 240
 ttgttgactc tattcatgtg caagaatggc agtatcactt cgatattgga tcattcctcg 300
 caaccaccaa gtgaagaatt acctttctcc ttccggaact cagggtttgg ttatcagtat 360
 cgtctttact agccttgccg cattcttagt cctcgctcga gtatacaccg ggacaaagct 420
 gatcaaacgg atggaagcta atgactgggt gataataatt gctttggtac agcatatgac 480
 aaacttacia ctacaacaat tgctaataaa tctagacaga tcctctcatt cttcttcatg 540
 tcttctttt tagtggaagc cttaaaccgt atgggcatgc acttggtcga catccccact 600
 ccgatcctct taaagcagat gaaggtagc atataagccg tacggctcaa ttgaccgtga 660
 tctaacagat gagctgaaca ggccttctgg ttaagcatcc ctttttacia gccgcgctc 720
 ctctgcgcga aggcacgat tctgatgcaa tactttcgcg tctttccgctc cagatgcagt 780
 gccgcattt gctggaccat gatagggatc ctgcacat acggcacatg ggctgtgctt 840
 agcgggttct tgaactgcat accagtagca cgtttctggg acccaacaat cccgggatca 900
 tgtctcagtt cgaaggctct gtggttctcc aatgcttcaa tgcattatgc gacggacctt 960
 gctatcctag ttatccctat acctgccttg tatagtcttg atttgccaag gaagcagaga 1020
 gttgctctta ttgcaatttt tgcgggtggg ggtttgtacg ttttctgttc catggctcgg 1080
 gtgtgcatct gctaactctg agtaattcta gcgtctgcat aacaagcatt tgccgtttga 1140
 tgtcttaaaa agaatcgctg actcttcgga cccaacctgt acgtccctcc atcaacccaa 1200
 aaaaa 1205

<210> 2187
 <211> 2415
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2187

taagaccgtc cctgcaaac gaggagacaa agactttgcc gtcgacctta agctgcgctg 60
 ggaggttcgc gtattggcg atcttctgcc caacctggta tccttggccg gtgttatacc 120
 agttgaaatc gaacgatatg aagactttca tgtcattgtt ggcagcggac tgataggcga 180
 gattgagttg ctggtcggtg tagggatcaa cccgatgtt caacgcgaaa gcatcgattc 240
 cgagagactt ggcacgtttc atatcatcgt cgtagtcggc tgcggaattg cggttgctga 300

cgattccaat ctgctcccg cagtctgtag aatcgtaaca aggccactag aggtaccatg 360
 aagtgagcaa agacaagccg gtcgtccgag gactgcctgg gtttgtttagc gactgcattc 420
 ggggcagccg agatcagctg ggggaagagct ccagagcag agagaaatgt gctgagcttc 480
 atttttgttg gtcttgatgc tcaacaatgg gattgctgca cttgatcaat cgggcctcct 540
 aagggttata taccctcggt gcatactcaa ccacaccaac atcaacaact aaaactatcg 600
 acagatgatg gactgattgg ctgccttttc cacccttgt agcatcgctc attgttcgct 660
 acaaacaaat ggcagcgagc gcaattatct cactcagata gcaacactac agcgaagggtg 720
 gttatagtcc acgcgcacag ccatggccag gaacagttag attcctccgc gcggactgag 780
 ttcattgcggc actaacctca ctaaccggc ttagacgttg ctgggtagta tcggtaagga 840
 ttagccctat agctctccgc attatgatcg gggccatcag ctgcaggggc catcgtcatg 900
 tggttcctga gtgagacaca tcgagcattc ctgtaataac gctttgtaat caaggatatt 960
 ccagcgaaag tttagacgaa gatcaggcat atactacgct tggggagagt atccatagaa 1020
 acccctaggc tcgccgacgg atcttgtaaa ataccaaga atatggattg tgttacatct 1080
 accgtctgga tgtgaccatg cagtctgcag gcatacatcg atgggtcggc tgaccgattc 1140
 gagcggggcc cagtctgtaa gccatggtat ccgactctgc atctcagcga ggtgatggag 1200
 tgaggccctt caaatgcttt gacagttcat tatgacagac atcatccagc cggtcgggac 1260
 acctgagaat ttgcattgcc cagcgtgtg acaggggaac caacaatcct tattaacaaa 1320
 gtaggggacg gcgaggattt gactcgcat gctcgggca tgctcggcat aatgcttgta 1380
 ttaagcttaa caattgaatt aatgcttcag acgggccatt accggcattc attatggcgt 1440
 cagaagttgt tcatgcactg gactcgggct tagtccaccg gccgtcatta tccgttctag 1500
 gaaacagaca ggctgtcctg tcgtccttta tgacggagtc tactacttca gtgcggagat 1560
 tggggatgag agcagtctca gggattgctg cactcgtaat ataaataagc cctgtagcgc 1620
 aggggatccc ctggtatact tggatcatgt atgccagatg gcgcatgtga ccactatcaa 1680
 tttccttttc tgttttaact actcacactt gtcccctgcc gatgctcatg tggtaacact 1740
 tcggagcatt catctggcca gtgaaacccc tgctggcat ccaggatat agacgaatca 1800
 atgaattcca ggtcgagagg gggctgttcc aggagccctt gcaagaaatg atagaagagc 1860
 gccgtcccca gtgacacatc cgtggatgta gacgacactc agtgattgct gcatccagaa 1920

ttgaattata ggcagaatct tgtggcgctg tggcattttc acttgcggat tggacgccta 1980
 ggcggaacttt tgtggagtgc atgaggtcag tagtggcctc gatgtgttta tggaattcgg 2040
 cagcggcgta gttgccatta cctgcagct gtaccaggaa gctgaccgct acttcgaact 2100
 gctcttcgtc gctctggcgg tctttccgtg gagtaagggtg gaaattgcta agacggtagt 2160
 agctgagaat agatactggg tgtagaaaaa atcgaagacc agaaaggagc cgtttgtcca 2220
 actgtcaacc aacatactgc atgaatgacg agcgcaacgg atgcaagttt tggacagagc 2280
 agtggctgag gcagttacac tagtctcttt gcctagtgtg gcaccagttt caagatgcac 2340
 gcagtaaacg tggaggagga tcaggctaga agcgaggatg gtgagggtga cgcgccagtt 2400
 agtagaagga aaggg 2415

<210> 2188
 <211> 2228
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2188

tgaatagccg aatctaccgt aggtgcaacg acagccgggt tgcggggaac agtcggagta 60
 ttgtcgtttg gaacactaga cgcgctctgaa ccggcccatc cacctaacgc atcgagagca 120
 tcgttgctgt cttcttcata gctggaatca agggcactgt cgcggccagt ttgctgccca 180
 gttttactat cactgcggcg gcgcataatg acagggccgg agctgcggtc acgtttgtcg 240
 ttgtgggaat tcgaagttct tcgtctagt agcttattcg cagcgctct agagattcgg 300
 cgcacaaagc ccgtaccctt gatagagttt gggataaccg tatctcccg gtaggaagca 360
 ctgatgggtg cggggacagc catgatgcta tcccaagct ctagagaagg cgcagaggtg 420
 ggaggaagtg gtgtaactcg atcccgaagg gagtcgactg ctgagaggaa aggggtgccc 480
 aaagggcttg aatcatttga cggagtgcaa gagggaggta gagatggttg agttgtgtg 540
 tatgaagacg cgtaggtagg tgccagagca gcaggtattg ctgatgaagt aaaaatatga 600
 tgtagcttag gctggggcg tgaagcagca agctttaaac ttgcttgagg gtcgccatga 660
 acggccgagg ttgatgaggt agctgcataa gtcattgcgg ctactgacta ggggggta 720
 cctgagctgc aaccgtaaga ttgtggccct gtcgtgggtc gagctagagt cttgagtcac 780
 ctggactcgt gcaaaaacga ataaacagt aggcgggacc cgagtggccg tggtggggca 840

gggctatagc tgatgtgcaa tacggagcga aagatcgaac gtgtttggct ggaattatgc 900
 aaaagccacg tccttagcgg tattgtctctg tttttgatat ctgcattttg gcctgccttg 960
 gacgcgatgc ggagagccct gcctgagagc actcgcagtg aacgggatcc gatttcctaa 1020
 taacaaccaa cacagggcgc tagagtcgtg taacaatggc tttatctgga cgctgctgt 1080
 tcgttctcgc tatcaggttc actctgacag tctctgcgcc tgatgttctt gcgcaactgg 1140
 ttcgagacac gataatttcg cagacgtctc agtccttctc taatcacctt tcgcttcttt 1200
 tgtttgagcc tgggtgtcgt tcagccctct ttgagtgggt gatctttcta aagacgcggg 1260
 gaaagctgtt atcctgtagg taaggaagcg tgcggagacc gaccaattgc tagtcgcgtt 1320
 gctgaaggag tgaagtaacc caccgggggg aaataagcaa atagagaatg aaaagcaagg 1380
 aaattaatgg taaatcaaaa taatatgcaa gtcagtagtg gtgtccgccc tgcacatgta 1440
 ctctgatggc agcagagccc ctccgcaagt gtctttcacg gtgacagcga ttggaggtaa 1500
 gagattgacg tcggctctgg ttggtgaact ccacaggtat gcgcaatggc acgagagtca 1560
 aggcggaatg ctcaaggatg agctcaggca atgggggtaa gcgtcgacga gggatgagca 1620
 ctgccaatgc aggatcgcct gccagcgcag tgatgcaggc ggtccaaagc ggaaggaaga 1680
 ggacgagcta gatatcggag attggaccga ggaaaagatg gtgaggggtg taagcgttta 1740
 gtgcgaatta ggcgatccct gagtgtocca atttcttgca gttacttgag caaggacctg 1800
 cagcagaacc cgcagggatg aatgtaagaa agagaagatc atgcgacgaa agacagggcc 1860
 ggcgctgtcc tttgcttaga ctgcggggag tgaagaaggt tgattcggga atcaaaacga 1920
 agatgtcggg aagcaatata agaatttctc gatgttccgg atctcccgtg gtgtttctga 1980
 atcttgttct tagtcgattc cgcggcagag ctgaggttgg gagaaggaag cgtcagagaa 2040
 agattttgga agggcttaat tatttcgaga aaccgatgga tgtttcagtt gaaagaaagc 2100
 tgagagagtg gagcctgcgg tgacgtacag tattgccagg tattggtaat gaatcaacca 2160
 gtatggtatc ggtaacggtc acgttggtta tgcttgtctt ctatcgaaag gaaaaaagca 2220
 aaaggaaa 2228

<210> 2189
 <211> 2061
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2189

aatgtctgat cccgtccgac ctaggggcag gccagcccggt aagttcaact taacctgacc 60
attaatgcag cgcttacaat aaacgaacct agacacaccc ggaacgacgg ttctgacata 120
tacccttgac ggccgataca ttatcactgg aggctcgaat tccgcgatcc gaatctatac 180
cgatggagaa gatggggaac ccaaaaccgt ggaagaaggc gccgatgcac atctcgctat 240
aggagctacg gtaggcgcag cttgtattct tagcagctta gggatgcagg ctgatatgcg 300
cagaatgagt acttttttat gggcgccgaa gacggcacag tctggcagta cgaagtcaag 360
tcggggagaa tggacaaact cttacacgc actgcgctgg cagtgcgcga tatcgccatt 420
acgaaggata atggatgggt tgctgtcgcg agcgagtaag ttgactaccg cttaccatga 480
ctttgacgggt atcagctgat gcgggctagt gagcttactg taaaactgggt gaacatcgag 540
gacatgacca aggtcaagta tatgaggga cagacaaagg gaacgaaaca catcaccttt 600
gacccgaatg gaaggatatg tgcggtgtcg tgtacggatg gaatcgata tctctactca 660
atggacaccg aggagcccga actggcgcgg aagctagacg gtgtgatccg gcggctcgaa 720
cccgaagatg aagcgaccgc gaggggtggtc tggcatcctg atggtactgc atttgcgacg 780
gcggatgcga gccgggatat tgccttggtc tccgtgggcg agtggaagaa ggagatgtcg 840
ttctctggtg gccataatgg ggatatcacg gccatgagtt ggtctcctaa cggggcgctc 900
atggtgaccg ctgcaaagga cggccagggtg ctgctctggg aaagtaagac gcagaagatt 960
ctccatgat acaactttcc aaacgtgatc aacctcgcat ggcacccgac aaagaacgggt 1020
gtctcactca ccacgtcaga cggagagata ttcattctcg acggatttgt gcccaaggac 1080
taccaagctc tacttcagaa gccgctacaa gcagcaccta tatttcccgg cgcattgact 1140
gagatatccg ataatgtgca gcgacccttg gcgagtcggc ctaaggaggc actgcgacgg 1200
ggcagcattg actcgctaga tgatatcctg ggttacgacc aagacatgga agactttgtc 1260
gaagacgacg atggagctgg ttatgttgag gatgtcaatg gggtcgggaa gcgcacgaac 1320
aagcatctgg gtgatattga gggatcatat gataaacgga cattgacatc gtttccgaag 1380
ccaaagatcc acccgccact tcaacctgggt agcacgcctt ggaggggggaa tcgccgggtat 1440
ttatgtaaga gcaccgtctc ctaacatgtc acgtactgac aggataggct tgaacttgac 1500
gggtgctgtg tggactgtgg accaggaaac ccataatact gtgacggtgg aattttatga 1560

ccggaactg caccgtgact ttcactttac tgacccgttt ttgtatgatc gggcatgcct 1620
aagtaagtca actattccgg atgtaatcgc ctactaacag catcagatga aaatggggct 1680
cttttctcaa acaatccagt tgatgatagc cctgccacga tcttgatcg tccgatgaga 1740
cgtggacaac gcgagcagac tggaaaacta ctctgcaaaa aggagaacac atcgaggggt 1800
ggggcagttt aagttttggg attagaaatt accacgcggc gctgggctta gtgattcgac 1860
attgtcgcac aacccaaaaa cttggtaggg ttttcctttt ttggccactt taggggtcca 1920
tcagaaagcc ggcggactgt gcgttgaggc tttttttacc atgcaatggc ctttgaggac 1980
tgccaagggc acttttcttt tcaaatttag ccgaaaattc caaaaggggt ttgtttccgg 2040
gggttgtaa gatttcaaat c 2061

<210> 2190
<211> 2079
<212> DNA
<213> *Aspergillus nidulans*

<400> 2190

catctccaca tgaagcttga cagtgcacaaa gtgcttttca caaacttctg acttcttcgg 60
gtgtgccaca gagccgctga tgagcgcaaa cagtctgctg aactgggagt gtgtcaaaag 120
ccagaactct tgggcgtctt tggttcgggt ggggtgctcg tatccagcca caagcaggcg 180
cctgagaacc ttgagagcaa taagactttg ttccatagct tccggaagcc ccgcagtgcc 240
ataattaccc tgctccaggc cagggggcca tgtgttctact ttatccacgt atatgccacc 300
gagaacatga agtatttctg gaacaattga ttgcaggctc tgtcgtgttc tctgcaaccg 360
agctgtcgaa agttccttga cgattttagt gagaataata agcgtccgcg gtaactgcaa 420
cgggttcgcg ccaggttgga cagatgcgcg gagggaaatcg atgacggcag gaattccttc 480
aggcctttta catattagca acaagttacc agtacgtgag aaagactgca ctctcacca 540
ttcttgccgg tactcaagac gcatgatctt cgcgagcacg aacgcgttgt gaagagccag 600
gaggggcgct ggttcgacaa caccggcttg taaggccctg actttgatat ggtctttttc 660
ttctttcttg attgcactgc aaagctagtc agtaagctcc gcgattcctt tgtccggcag 720
gtgtccctac tttggtgctg tcttgcccca atacttgctg atcccgttct ttaactgtat 780
aatggcgagg tatcgagctt cattagggac tgtctggtct agaaacacat cctacatagg 840

ttagtacatt caaatatgaa aactgtaaaa cctctagagc aaagacccgt tggaagtgca 900
 tacctgaaga aacgtatagt acttttctctg cttctcccag ttctggagct gcttggtacc 960
 ggtctgaacc tgctgctgcg tagagctagc agcttgcgtc aaggagttca ggacattctg 1020
 cggcgtcaga ggatttgact cccccgccag ctcaatgacg tgagccataa cggaaatgca 1080
 agaggagccc cgatctatta acaccgagat agtagctcca aggcgaactt atagctcaag 1140
 ttcaatgtat gtgacagtct ctaagaccga caagccatag aaacaagaac gtcgaagcct 1200
 aggagcgttt agctgggtga cgggtgttgt ggcgcgtttt cggcgggcct gcagctttct 1260
 tgcattgtac tctttatgct gactccccac ctgcggcata acacggaatt tagtttttcc 1320
 gaaaaggagc cctaggttat gacccttgac gctagaccat attgagacag caacctaggg 1380
 cttgagctct gttatacagc aaatcccatc tcttccatct acctgcctcg gtcaatacct 1440
 tcacccgtca tgctttgaaa cgccccacat atgagtattg tttattaccg tgtagcaatt 1500
 gaactcgaag ctccgcacct ttctgaatca gttaaagcgt accgccccct ctatcaaccg 1560
 tacgcgggac atattgtgta cgccccatcg accaggtcag cgtcgagtaa taatgtggcc 1620
 ccaccaagta accatcttgg actaagcatc ttagtgcgcc atccaggttc ttatattctt 1680
 ctatgttttg cggagaagtt tgcggacceca cgcctccaat ttcagaacaa cgagacttta 1740
 gaggttgaga cgggcctggg actcggaaat aatggagact ataaaaccat ggtcgcggtc 1800
 cttggtttgg ctaatctgcc cagtgttgc gctctgactg cttgcaaacc ctacatcagg 1860
 atggcccaag tcgaagtcc aagcaccaac ggcagcggga agtctgtcga gactcgtctc 1920
 tttatcaatg gcgaagtttg tcaatggccg tgctgcatca gtttgtgaaa taataatcta 1980
 atggatatag ttccaaccct cgtccgatgg gaagacattc agtctgatcg accattcac 2040
 gcagaattca gttgcagaag gttggcagaa gaattatag 2079

<210> 2191
 <211> 3386
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2191

taataaaaga agaatgaata caataataaa agtgaataat cataaccaat gtttaaagct 60
 tgaacataac aaaaaaaggg tatccatata caggaaagga cagttagggg tgaaccatgt 120

caataaatca gtaa atgcac tccgggacag taatccgatc atgtcttcac atagatcagc 180
tcgatcaacc tcgcagtcgt agttgacgaa tagttcgacc atgaagctgg gaatacgtgc 240
cagtaacgcca atgctctcta ccattgcttc tcgggtttct ggcttctctgg agcccccttc 300
cagtcccagc ttctgtcgat ctttactggt cactgggggt gaccgcccgc tgctactctg 360
cgagggaggg ggcttcacca atttaggcgc ctgtgggact ctttcgtaaa gggtaggatc 420
aatgcccgggt tcccggggta tttctaccgc tgggtgaaga cacgcgacta ggtaggagag 480
atagagctct tgttggagtt tcaatacga acgacagggt aaaatcagcg taccagctac 540
tctgagagag ctggtgagaa tagccagggt ctcagagcgg acaagttgga agaggtgacg 600
gcaaaggctg ttttgagcca aggatgctag gctcggatgt cttgcaatcg aaggctctgc 660
aacttccaac gccacgtcaa ttatcctcaa ggccattact cgc atgggggt ccgtgtgttg 720
tcgattttct ggggtctagaa ggtcgatgag cacgcggaac agctctcgga tggaagccaa 780
agagtaaggg ctgacttctt cggccagggt atcttcagggt ttcgggtgggg cagcgactgc 840
gtttccattc agtggttgat cagtcgaact atcgtagctg gcgtgatcac gatccgtgac 900
cgcggtgtca gagcccatag ccgaggggtg ctgagaagcg actgtgggtt cgtccacaga 960
aggggtccatt ttcaagtttg tttgttcggc gtcgtctgga cgttcctgtg gtgaagtctc 1020
gtcgtctgca gttgttgaag tggcatccaa cacggacagg cgc atgaata tgacctggca 1080
catattgacc atggctatct cggcagacct ccgcagcact tccgagagac ggacctgaca 1140
acacatgctc agccccgtt ccatcatctc acagacactc tc atctccca ggagtctgcc 1200
ctccggcccc gccagcatgc cctccatcaa tttcaggatc ctcaacaaga caatctcatc 1260
ggcggcgga tcaactggctt cgaaccggca gtgggtgatt gctgcagata gcagctgcat 1320
agccatcgag atcctcgag agttacggtc gatgatcttg taggagaaga acttgggtcaa 1380
ggcgagcaaa gcaagagagg tgattgcggc ggacgtcgaa gaggagcgaa cgacctggag 1440
gaacgggtgt aataacgctg gggcgtcaaa ggtcttgata tctttgcagt ccttgaggtc 1500
attccgtaac cgagtgaagg cggatatcag aggggttatcc tgtatactct tgcctctctt 1560
ccccctcaga cccaccgat tcgcgagggc gtgatcatcg tccgcggaga gcctcgacct 1620
agagcgggta ggtgtagccc cattgagcgg actggaagaa ggagacaaat cacggtcata 1680
gactcgagaa acagtactgc tgccgagaat ggccgcaacg gacgagtgtg cccaacgggc 1740

atgtttccgc atggccgacg tgaccgtaat acattctgtg gtcactaagg ctacagggtc 1800
aacggcaatt ggcagagagg aggaagacat ggcgggcaga agcgagcggc ggagaatggg 1860
agtgcccggt agaggaacaa gctcaaatca tggccctgtt gattgcgtag tatatagatg 1920
gtcccaggcc gatgtggatg tggacacaat tcagcagctc caaaggcgga gagggctgtt 1980
taccgcactg ggattagcgc attctttccc agttaggctt agccgttact attactcagc 2040
aattaccgaa cacatacacc aataatgagt actctaagt tagagctcag tcgtttggag 2100
tacaaggaca tgacaatgat cgctaattgg tctgtgtgga ttcaggagaa taattgcaag 2160
agttgcgaat gatatacata gttttggcaa cgagagatgt tggatcaagc attctgctga 2220
acgtgatgct gttactagta ctgttggggg atccatagtt aagcgggtgtg gttcagggtc 2280
aggtgttgat agcttcagtt cccacccgc accccgtaaa caaacccgag agctgttccg 2340
acgtgcagct ccttgcttca gagtccaata taatcgaaat cataataata atggccagga 2400
acttgcagtt tacctcccg gcagctggc tcttttctt tttttgcgc gatcctgttg 2460
acaagggcga ccaccagcag cagcagtaca cgtgttgga gtgggtgctt tctggctctg 2520
aatggaatta cgccaggatg aaattatggt agatctcag taggccaat gcaatagatc 2580
tacttaagcc agtcctctgt ctggagactg cctacgtact agtattactg gaaagccgaa 2640
tgcacagcc aatgctgggt gggcgcaagt catctggagc tgcactcga ccacaacaac 2700
aaatcaccag ctccaagaa cctactacgc cttgccttct tctgctctgg tggctctcag 2760
gtcttttttag gatcttgctc tgtttctgtt tcagagaaga ggggtgtgcta gtgactgtt 2820
ttctacactc ctctgttct tctcctcatt ctctcattc taattgccac cctcgtcggc 2880
ctcgatggag gggctctctt tcggcttccg tcgcattgac cgttcgtca ctcgttgact 2940
ctttccttct cgtcaggcct atcggtata atatttacac cacccttctc tatcatgtca 3000
ctcatcgatt tectatgttt ctagttttct agttttcgaa ccttggatgt gtctcgtctt 3060
cgtcgtctc tctcacagc tgacctcgg gctgccttcc aggtggtacc ttggcccttc 3120
cagcagtcga gttccagct caacgattca gttccttccc tcgttttcc tgagccagct 3180
cttttataaa tactcaattt aatactcgat ccatcgctct tcccgcctcg gtctctacgt 3240
gtcgcgcgcg cggtaacct tcttgcccg ccatggctac cgttcgtgt gccccctcgg 3300
acccccctct cgaacaactc agcctgtacc atgtaaaaag accaatcggt atcgctccgta 3360

ttcgtgttct accggcccggt gtcttg

3386

<210> 2192
<211> 2405
<212> DNA
<213> *Aspergillus nidulans*

<400> 2192

ctggctaatt ttggaggatt ggcgtcgcgg cttgcccaac cacagcgcac ctcccgagg 60
catgtggctc gatctggctt tgacatagtt atttacagag aagcccagaa atggccgttt 120
caaccacagg agaaatctgg caaagcacgg ttgacagaat atttcggaat gagaccgtcg 180
tatctgagaa ttcccctcgg cattctcatg gcgcctcaat cttaccttgg tatttaacag 240
attaacagat taaagccagc atcctatcgc ctcgactaga gaaaaaagc actcttggat 300
atccaaaatt gatccacca tgaagacggc cggaacacgt gagctctttt accgcgagca 360
aacaataggt atgcctatac cttctcgcgt tatcaatcaa gtagtaactt ggaatcccag 420
cgaatcttcg cattgtatgt ggtaaagacg ttgatgtcgt gacctgcaaa caaggctatg 480
agagcagatt tgtcgcctta gcatatgtgg ttggggccga gggagagcga attcaagtca 540
tgcagtcgtc ggctttggac gtcacatatg cactacggga cttgcttgct ctatcgtcac 600
ggcgtgttca ggcttatttt gctgaccaca accatcaagt ggccaaaaat gagttagcaa 660
cctgcagcat tgtcttgccc cgaaaaccag agtcattatt agagctcaat caaccacgc 720
ccctgaagta tgacgtgctg cccgaggatg aggcggctct agaggaagca ggtggggact 780
accttgaagc tggtaatgta attaagatcg gcaactaata tgtcctcaga agcaaaccg 840
gggggtcatg aagcagagac aagttcgtcg actccacaat acctagaatc atgtaatgtg 900
gaacaaaagg gctattcaat cttctgatt attgagcatc ctttccatcc gccttttggg 960
ggattgagat atattggagc ccctagccgt caagtgattc tgcaagctat ctccaagatc 1020
atgtccgaga acgggttgct gaacaccgtg tatcatatga agactttgtg cgtcaaactg 1080
gataccggat catacgatat cttggctat gagtatgacc acatcgaaga cttacttgac 1140
catgtcctca aatcagaaaa atttgcaaag attgagtgtg tttatgggat tctgcagcc 1200
taatgcccatt gttgcaatgg ttcttaccaa tgcataccgc aaccacgcta tctgcccctt 1260
caaaccttgt cgtcgaatat atctgcaacg atctgacagc attccttcct tatcgttcca 1320

gttcgaactg tttcccatat cgtctgtttt atcttgtcat cgccaaaatt tattaataatg 1380
 ccgcgcaatt tgagctttcg ttttgactta tacgcgttga tttccctca gctcacatca 1440
 aaaagtccag catgaggcca tggcgatctc taagggtgatt ccacatagcc ttatgccaat 1500
 caaagcttcg atgggttattc aaatacttgg attcacaatc aaaacagtac cagatgtgtc 1560
 catggctatc cgcagctccc aggcgtccag gacgggtggat gaagctagca tgatggcggc 1620
 gtaagtgtc gatcgcttca tccatgccac aaaagtcttc ttcattggtct gtacacgtat 1680
 attccatgat attggacgat taaaagacca caccagaaga aacctgggat ctgtgagaag 1740
 gcagagtatt gtagagcagc ttaaattcta gatcataggc tcttatattt tgataatagc 1800
 acggcgacag atgatattgg gatgcgtcat aatgacacgc tggtaatatc cagggtcttt 1860
 cgacagaaat gtggacacga aattgataag caagaatctt ttgaggcctc atctccaaga 1920
 tttcactttc ctctccctt acagagagcc aagttgcccc agatctgaag cctggagaaa 1980
 ctgaatcttg gcgaatcatc ggccactcc aaaatatata tcccagagg ccatacacia 2040
 gctcctgcc atagagcacg tggttacca gctagatagc aaagtatatt atgagacctt 2100
 tatgtctcga cttaaattctc tacctactcc tgtgttagct gaatgcgctc tagtaagggtg 2160
 aagctccggc aggtgatgat gtccggagta tcagcgaagt ttcaattgct tggtaaccat 2220
 gggttgtttc gtagactact ttagcaggac cagtcgcgca acctggagga tcaatatgag 2280
 tgggatgacc agtgcggtga cgggttaagc cagcatcacg ctgatagcgc aagagtgggt 2340
 gactatgggg cacaacaagg atgaccatga tggccgctaa atccaccttc gtcccaaac 2400
 tgaga 2405

<210> 2193
 <211> 1832
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2193

atgcgtcggc ctagggggtt tgtttctttg atatgttgta tttcccaact ttctgtctta 60
 ttataatagc tgggtctgtca cacagttcga ttatgtaata atttagatca atgattcgat 120
 tcatgacatg ttctataagc tattaccatt gtacccatga caatatgttc tgtagaattt 180
 agaaatgtaa aaacgtaagc acccatcata tcatcaatca ttgcagcgcc cagagctagt 240

atatctatat ccaacaaccc gtctatgact tcttgaataa ctgaggaaag catgtccgca 300
 gctcctccaa gcttcgaatc tggaactgcg aagccggagt ctcagggaca ggaagtcccg 360
 gctctacaag gtgcgccacc tgccacccgc gagccgcggc agccttgcaa ttcaggcccg 420
 agtcatcttc gcatccgtca gcatctagtc caccccaacc ctccacagtg agaagaaaga 480
 cataccaaca aaataacact gactcttata cgtagcgccg gcgtccttct ccgccttata 540
 atacatcaac tgggacggct tacaataag cggcggattc gcgtagtcgc agtatgtgat 600
 gccctcgaac agatcgtcta cctgaagcag cttcacaacc cgcttgccgt ggttcacgta 660
 tgcgtttgtc agaagccaaa gctttacttt gtcccggtcg atatcttcta ggagctggcg 720
 cagcttcggg tccggcttga ggatgttgtc tagtgggagg gcgtcatcga caaggcgggt 780
 gaattcgagc gggtaaatct tgtgggtggc cgtaaggccc tctatggcga gaccgtactc 840
 tttgtagtat ttcatatgaa gcatgtgggc gtcttcagag ttgagggaga gatgggtgcac 900
 gaagaatcta tctgcgcgag aagggtgtag aggggtgact ccagacttct gtacgacttg 960
 aagagttgca cgtacgaata agcttttgca tctcatcgtg aatgttgttt tctgcgcaa 1020
 atctcgggtt agcaggcaat ccaacgcata gttaccaggc gcggggtcgg aaaggggagt 1080
 tcgaacttct tgagtaaagc tggattgagc acttgtcagc agcggacgag ttaattctgg 1140
 aatctgtgta cgcacacaat tgtctatata aaagaagaag actggacgag tgtccgtcat 1200
 tgtgctgaaa ctgttgactc tatttgacgc aagtactgat ctccggttgc gagagggaaat 1260
 gcgggttgag agtgagcaat atgcgggggg tagtttgtat gcgcggaata cgggaatgga 1320
 gttggcgaag cggagaggcg cagtaaaact catcttctac tgccttatga gtcacagtcc 1380
 gcttaccaat gtctatatga gcggccttta ccaattttgt atacaaccct ttggtaaact 1440
 cgctacagtg tcggaatcct tgaaatgcag ctcatggaag cggcaaaaag ggtttagcgt 1500
 catttgccgc caagaatctg ggcaggtgat cggttttcca gtcgccaagc gaccggaagc 1560
 tacactgccc cgactacaac tctcgagttt tatccagctc agttcggttc agcttaactt 1620
 cagcctactc gcgtctcagt gactggttga tccctaaaga cacctggcaa gggccaaagg 1680
 gacaggagaa ttctgaagtc tgaactcgaa gagggctagc aagagtgcta attgactgtc 1740
 tggatttggt caggtgcagg gatacagtat tcatttttta ccagctccta gaacatggca 1800
 gcaaccagc ttccggcgag gagcgtgga ca 1832

<210> 2194
 <211> 3541
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2194

```

ctttctattc ccaggctgaa catgctttgg cgcgactgtc tcttatatct ctctacagat   60
aaccttcaca gtgggtatta tacccatctg aaagccagtt ttatctatgt tatagatatc  120
ctccttagtg atcctatact tcttaatagt actggaaaac tggcagaacc actcctggaa  180
tagctcagga ttatcatatc ttacttactg atagttatat ttttatatat atttagagct  240
tagctctgca tgtcagttaa cataacaatt tacccagttt tcaccaactg taggattctt  300
tgatagagat aattatgctg caagtagaag ccacgctagg tagtgaacag ttgatatttg  360
tggaggaaga ccatgctgac ccatatcaat aatccatttc ttcaatgttg attcctcaag  420
atctgttaat tttctgcaat tggcaattac gtctttccga gaagctgttc catgagccgg  480
gtcatcaaag tccttggtag tatatcaaat gcctttgcag cagcggtttt tgacggaaaa  540
aggcctgagc tacaagcatc gatagctagc ttcatacgcc cttcttttga aagctcagcc  600
atgttgttgt gtttgaatga tgaactggta aaggggtggc cgcgttggtt ggcggtgacc  660
gcgagctcg gtgggtggatt acgttacggc tgacggctga atcagcgttg gttctcccgc  720
gaatggccag ttattagcgg gagtctagtg tagacggcgt actaggaata agtagcgccg  780
aactgccgt atctggctcc agcgcgcca aggacgtaca atagcatgag tccgctggct  840
tcttttcgaa agtttaatat actatcatct caaagtacta tggtcgcatt ttatggtcgc  900
attaggattc aactccgaa gctcgagaca gtcctatgag gttaagcctc gtattgcagg  960
gccattactg agggttcgtt gtctagggag cgcacatgtt tggagagatg tgccactcaa 1020
aaaccggccc tgagaacatg ctaggagcga aggtttttaga cgctaagact attatagctg 1080
ctttaagcta tctcgtgaga atgatcatag gaaaggtaga gagaaatgtt gcgccgagaa 1140
ttcccgttaa ccgcgcgttt ccgacataaa ttatgtatga agaggtctct aatacctaac 1200
caggcggctc atagtctttt tatgctagtg gtcagcgtac gcgttgactg ctcaatgagt 1260
ccccggctc gttgaacttg ccaatgggcc gtgccatctt agccattagg caaccctact 1320
ggtaactagt tcagcgtatt tggcggccag agagaatccg atcagccagg ttctattacc 1380

```

catttctgca cgcacgaaga catgttattat aactacgagc agcagcatcc agactgggggt 1440
gtttcttgggt tgctacaggg cactagtcaa actgaacggc agaccgaact gcatccctga 1500
ggcgggaata aatgtactgg aaagttgtgc gaagagaacg ttcaccagta atcttatcag 1560
acaggtcctt gactcttcac cgtcgcgagc agggatgcta aactgggtggg aaatatcgat 1620
gctgttccgc cctaggccgt tagggcatgg gccgctccgg cccacgatag ctcgatga 1680
agaaatagac ctgatggata ggccacacag cagctctgtt gatactgctc gtcgtcgtc 1740
tccttactca actatttcca gtcctttgtt actaggcccg ttctttccgc tatctttgaa 1800
catcttaaat gccaatccct tcggtgatcc accctcatac atcaagatgg ccgacttggc 1860
cgacttggcc gacttgagtg ttgtcagatc atgtcagcat cgcggtaaa gctgatgtag 1920
gaatccgtgt gaaaactgat atcacagtgt ggatgaagta tcaatagctt tctaactctg 1980
cctaagggtta acaccaacca gaacccaaat tagacatacg ctactccttc aacgcatcat 2040
gtcccaatt ctttaaactg cgatagctct tactccccgt atcctgcttt gccttctcct 2100
cctgcgaag gtgtctcttg cagtacgaga ccacgcgacg catatgatcg atgtcctcgt 2160
ctgaataccc atcagggctt ttcgacgggt tatgctcgag gatggagacg attttacggc 2220
cgctacgtac cgataaacga acattactca acgtcacagg gatagattgg gggcgaattg 2280
ggaaggcaag gatgggtaga taggtacctc tcatgccaa tegtctcgcc cgaacctgac 2340
tcgttcttcc atcctgacga ctgcgagtgt tcctctttca gccagtcgcg aagctcgtca 2400
gcagtcatgt tgaccaagcc gttgaattcg ctgcagtact gttagtctgg gctgcgtggc 2460
ttagggcttg gcagatcagc caggctagaa gcaggtaagt acggactcaa taacggtact 2520
gctgtctttg accattgtgt gaggtgtgaa ctggaaatat ctctgtgagg agagagctgg 2580
gaagagtcgc agtctgatca tgtaagaaat accgtacgaa attgtagctt cgcaggtgaa 2640
atgacggcgt tgcgatggc ttatggtagg gagcacggtt gacgtcatga ccagcgattc 2700
ttaagatgat cgatcgcgga gacgtcaatc ccgagtcaga aacagaaaat atgagtaa 2760
gagctagtgg gaagtgcggc cattaaaagt gatagataac tacctactgg gttgggttctt 2820
ccatgcatat ccagacccat atagtgggaa ttcgggaacc aacgcctggg caccttaatg 2880
accccgctgc tttcgacctg ccgccagcta agaacctata gaaatggctg tgaaagagag 2940
ttcccgatt ataccggaca aatcctagga ccctgaattg tatcagattt gagtcgtgta 3000

gggcccgtcg ttccagaaac ctacagttct agattagttt catgcaatca gccaaaccgc 3060
 agttcagctc tcgccaattt gtggattctg agcaaactct ctgtgcatgt gctgtctgtc 3120
 atttcagggc agtcaaggct tcctgcaaat ctacgaatc tggaagcgac tcaccagcag 3180
 agagcttata gcttggctaa tcttttcagg ctgttaggaa cagcttgccct atcgacacta 3240
 ttggtatata ctggcgactg ctagtctagc atgcctattg ctaggctttt tagtgggtggc 3300
 tattgccttg aggatatagt ctaacagcta acttatatgc cctggacgct gggtattccg 3360
 gatgtacatg gtctatatat tcctattctc gatcactata ttcccggatc tatccgtttg 3420
 gtggaatctg gaatgagcca atggatcacg agtcagggtga cggaatgat gggcatttat 3480
 attatctgag tgggtgagag gtacatataa cctaacccta tactcacaag agcctagaga 3540
 g 3541

<210> 2195
 <211> 2121
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2195

cattcaatgt cgagcatgtg cacctcatca atgaataaga caccaggaat aatctctgcc 60
 ttaccctcct ccttccactc tgcaacttta acattgatct gatctctaac ttcaactccta 120
 atctccccag tgtcaccaga gaagagcgcc aagaagccct gcgaacgcga gttgatgaca 180
 tcaatctcat gcaagctcac tgtgtgtaca atctccttcc ggacctgaag ctctccctcg 240
 gggcattgga cgaatttgac gtcggcgccc atagcatcgt aatcgcgaga tcgggcatag 300
 gagcgcccca gcttgggttat cttgccagac gacttatcga tcgagatgat gtctccagcc 360
 ataacccttt cttttgtcat cgaatcgatc atcttcgttc ccatgtcgta aattgtctcc 420
 atgtcgggtg tttttatggt gagcttccct tgtttgttgc cctggaacga gtcagtacag 480
 tcttaacgcc tttccctcaa gtgacttacc ccagtaacgc tccgatcaat ttgaatctct 540
 accacttcac cctcaataat ctcgctctct tccttgattc gcacaccgat ggattttcgg 600
 aaagcttggt tcagggcctt cgtttttgac atttccatgg agaaaatttc ggaggcagcc 660
 aacatggtga acggaacatc gggcccaagc gactgtgcca taccatcgcc aatagccgtt 720
 ttacctgtgc tgggcggggc tgcaattagg acagcccgtc cagcaatttt gccttctttg 780

accatctgga ggataactgc agctgccttt cgagccttct cctggccaac aagaccctga 840
 gaagccgggtc tcggttgcaa cgagtcaaca tctacgccga gccccgaat gtgtgagtga 900
 gcagcgatga ggttcagacc ccggagttcc ttggactccg cgacggtaga aattggctat 960
 ctcaggaatg agcaatgaag aatgataaga cacactatag agacaaactc accgcagcca 1020
 tgattaaacg tcgcaagtaa aaacagccac tatcagttaa gtgtctcagg gaattggatt 1080
 tcgtatctga tcgcaagtcc ttgattgttt ccgcaccgca atagctgcac aagctgatag 1140
 gctcaccgcc tggcagaacc cgctcgccag acgcgtcaag ccgtatcaac aatcaatgaa 1200
 ttagagtcgg cgtgaaacct ttttttgata catcacctca cttccattta atttcgcttc 1260
 gtttaagtgc ttcagccact ttctaactta tcaacccaat tttctctcaa atcgccgtga 1320
 ttcttctcga gaatttttca tgagaagttc cttggtcatc tcagagatgc aattcccaca 1380
 tgaagtggga agtgagttca gcagaaaccc gcattgagag agatcacgta ctgactcttg 1440
 ctcttactcc tagattaaaa ggctattctc ctacggtctg atatgaacct cgattcctcc 1500
 gtttcgcat caccgcaccc gcgccgtcgg cctcccataa acactaacct gagtcaaaat 1560
 gaagtggccc agcaacgacc tccttcaggc ccctggaatc actcatctcc agaagcacag 1620
 catgatgtat ctgacgaccg gtttatccgc agcatttcca acttcatcga gacggccgtc 1680
 aaaacacgaa caaaagtagc cgaaagggaa catctatcga aaaggacagc agaaaccaag 1740
 gacttgctga ataaggcgag ctcccacgca gggtttccct cgactgtaga gttctaccag 1800
 cacaccaagg atggcgaaga caaagctcta catagtctca acagtgagat caagggtcat 1860
 gaaaccgagc ttcaggaatt ggagagcgtt ctcagagacc aatgggcggc ctctgcaaatt 1920
 tccagaacct ccacgtccga tgacagggta cgacaactgg agcaatccct gaaactagcc 1980
 aatgataaaa tttctggttt gcgtggcgat attgcaggat cccatcgatc gtaacaagtc 2040
 attggatgcc gaactgaaaa atcgccagac ttgataggcg ctcaggaaaa gtcatttgga 2100
 ggggggtttca ccataagcct t 2121

<210> 2196
 <211> 2185
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2196

ctttctctct ctctacctct cacctcgatt cacttgacac tcgtgtgcgc ctcattctct 60
 gcctctcttt atcccggcgc acccaatctc tctctctttt ttaccttttt cgctctcttt 120
 cacttctctt acttcaagca ttctccctt ttcatgggtc gattcattat tgacttcatt 180
 cttcgtcaag ttgttcgagc gccagcgtcg ctctacagat tagatcgcta tctcgtgcg 240
 tccagaacct gtttaccctc acccatcgct tcccgatata gtactgtctg tcggtttact 300
 agaaccatga gctcttcaga tgatgatacc cactcgtca aaatgaacgg tagatcctct 360
 ggtaagtgcg ggcttgttct tgtcaaactc gatgcgcttg cctcttttcc cggctttcct 420
 tgatatttta ctgggttttt tacttcgtcg attcaatctt aattaatata tcttcgggat 480
 aaaggtggtc aatcggacgt gaaggtgaac ggcgcagcgg acaccaacgg tcacgtcgat 540
 cccggtgtct ctatcagatt tgggccggtg cagaaagatg aggacgttga aatgaatgat 600
 gcgaacggcg ccagtgcgag caagaggaag gcgcgatcaa gtcgccaatc aggcgcaatc 660
 atacgcggag cccgaaagca gtgaggagga cgaacctctg gtacggccac ccaccacca 720
 gatcactacg gcattcttgc catcgttgtt tgcttcaacg gctgactccc ccggcagagc 780
 aagcgtcgac gcactttggt gaaacacgag gatccggaga ctgacgacga tgtaccactt 840
 gcacttaatg ggcggaagct tcccaggct tgggaggag caatcggcga agaatccgac 900
 tctgatgttc caattgaaag gaaattagct gccgaaaaa agaaaattta agtcaaggga 960
 gaaaaggacg cggatccatc tgcacaggcc accaagtcag cggcttttgg aaaaaagcaa 1020
 gcgaatggag tgaagaaaga acctgccttt gctaagcaaa cctgaagca agtaaaggcc 1080
 gagccaaagt cagcgcagtc aaccccagca aagaagaacg cgaaggctac ggcattgaag 1140
 aaggaggaaa gcgaagaagc tgaagagcca gaggaagaag aatacaggtg gtgggaggat 1200
 ccaaccaagg gcgatggaac aatcaaattg accactcttg agcacaacgg cgtagttttc 1260
 ccgccccgt atgaaccgct tcccaaacac gtcaaaatga aatatgacgg cattcctgtc 1320
 gaccttcacc ctgaagcaga agaagtggcc ggcttttttg gcagtatgtt aaactcgact 1380
 cagcactactg aaaacccac gtttcagaag aacttctttg cagattttta ggaaatcctc 1440
 aaaaagactg gtggcgcgaa agatcagaag ggtaacaagg tcgatatcaa ggagttctcg 1500
 aaatgcgatt tccagccaat cttccaatac tacgatgcac aacgtcagga gaaaaaggcg 1560
 ctgccacccg ctgagaagaa acgtctgaag gccgagaagg atgcacagga ggctccctac 1620

atgtactgca tgtgggatgg tcgcaaacaa aaagtcggca acttccgagt cgagcctcct 1680
 tcccttttcc gcggtcgtgg tgagcaccct aagacaggtc gcgtaaaggc tcgagttcag 1740
 cccgagcaga tcaccataaa catcggaacaa gaggcgcgcg tccccctcc acccgaaggc 1800
 cacaagtgga aagaggtgaa gcatgaccag gaaggcacct ggctagccat gtggcaggag 1860
 aacatcaatg gcaattacaa atacgtcatg cttgcggcta attccgacgt taagggtcag 1920
 agtgactaca agaaatttga gaaagcccg cgaactcaaga aacatattgc tcggattcgc 1980
 aaggattatc agaagaatct aaagcacgag ttgatggtag agcgacaaaa ggccaccgcc 2040
 gtttacctta ttgaccagtt tgctcttagt gctggcaatg agaagggcga agatgaggct 2100
 gaaacggtcg gctgctgctc ttgaaatat gagaatgtca cgctcaaacc tccgaacaaa 2160
 gtgatattcg attttctcgg taagg 2185

<210> 2197
 <211> 1838
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2197

aatttgcggtg ctctatgatc ccaactgacgg cgtcgacgtc gccatcccac ctcgctaccc 60
 agacctgtac agcccgacct tccgcgttga cagcgtcatg atcacggcgg gagtcggtga 120
 gggggcgaag tgcgttgtct cgggcaaccg cgtgtctgac aacgcgcctg tgactcttgt 180
 cacggttgat ggccggaaga actacgcaa gttccctcag ggagttgga agccggagag 240
 tctgaagatc aactgcgttt aaatgggggt tgtactgtta atcagttctg atatttcgac 300
 aaattcctgg ttgtcgttcc ttcatgggtt ggccgccgt cttatccaga tgggtgttaat 360
 ttctttatat atcttatata gtctctcctt taattgctgc tggtagaagt tgtttatatg 420
 atggatggaa ttgcctacta tggctctttc gtaattttca agtgctcttt tgactacgta 480
 ttataaaaat gaaaagccta atttcctttg agtcagtctg cctctggagc agtcagtctt 540
 gtgccgactg ctccgtggtc tatggagcat cgacctcgcg taatgcctaa gttgggttga 600
 ttgggtcaa atccaaggcag acgtatatac aatgaaatgc tcgtccactt atcaatacct 660
 tgcctcatt acctaacaac taagatagat aagccaggta agggttattc cttatctact 720
 tcagcattga acaataagag cagcaagccc ggcaaagggt cttgaccctc cggttgga 780

agaagagacc aatataataa tctctcgtat tgactccagg ctatggacga atagtaaagt 840
 gagcagagtt cattctctaa tatcaacttc cctcaatttc taaaatagag ctatatgtaa 900
 ctgggaaaaa gcaatccaaa gatcgctcct tcagctggcg cgagtaacca cttgccgaca 960
 agtgcatttc aactgcgaga acaagagtag aatacactga ttacgattct taccaggtaa 1020
 tatggttcat ttacgcataat atacgcttca tcacagcagt taatccaggc gtccagtgga 1080
 atgctgggat gggagataaa acattcatag ccacttgca ctctagaatt ttggcaacta 1140
 tatggcatcc gatatactaa gttatcttat taaagctctt gcacgaccc atctacaata 1200
 gtgttcgtgt agttccacaa catagtcgag taatctgtac aaaacgtata ccccggtgtag 1260
 aacgtactag cctggccctg cagcccataa agcttcttat agaatcccc tttgacatct 1320
 tctaccgaaa ccatcaatgt ctcgggcgag tgcgacgcaa atgctgcaat ctccggctcc 1380
 tggccgtcct tgatcccgaa ggtcccgga gagctcatcc gctttaggtc gtcaatgac 1440
 agggcccgcg cctcggcctc agtcagggtt gcgtcgccga tgatcttggt catgaagtag 1500
 cccgggacgc cggagtactc gagcgcccag ttgaaagggg ttgttggcag gctgccgggt 1560
 tgattggtgg gatcggcgtt gaggatgttg aagtcattgg ggacggcagt gttggttagg 1620
 acggcgccat agtagttcac gtatgtccat ttggagaaca gggccgactc ttgttcggtg 1680
 aggtctaaac cgccccggtt tttcagcacc agtgggaacc cgataggggt ttttttgggc 1740
 aattcatttc tgcgcgcccg tccggcggtc ggatgaccac ctgaccccg tttgttccgg 1800
 tggtcgggcg gccttggatc taaaaaaagt gttaccct 1838

<210> 2198
 <211> 2171
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2198

caaagtctgg gggttcatct tactggcatc agtctccgaa cgctcatgga aaatctcaaa 60
 cctagactta cgaaggggtg agacggcagt cagctttcca cgcgggagac ttttcaagat 120
 ctttttggga ttctatttcc tgcaactggt gggatatttg cgtaagtatc tgtctcaagt 180
 ctgctggata tcaggcttat ctgggtagtg gtgcaagcat gtcaggcgac ttgaagaacc 240
 ccagcagatc aataccgaag ggtactctct atggactggc tctgacctt atcctctaca 300

cacttgtgat tttcgcaatg gcggcttctt taacaaggga ctctctatac aataatgcc 360
atatcgtgca gattgtaagc ttccaaacga ccttgttcat cacaatctga catttttagg 420
caaatctctc tggggctatt gttctttcgg gcgagttcgc aactagtttc ttttctgctc 480
tgatggggct gattggatct gccaaagtgc tccaggtat tgccaaagac agcttgcttc 540
ctgggctgaa tctgttcagc aagggcacga ggaagaaaga cgagccggtc cgcgcaatta 600
ttgtaacttt catcgctgct caactgacta tgctgtttga catcaaccag atcgctcgt 660
tcgtcacaat ggcgtacctc atgacattct tagtgatgaa ccttgctgtt tttctgctaa 720
aaatcggatc tgccccaac tttcgtcctt ccttccacta cttcaattgg cagacggctg 780
caaccggtac cttggctcgc ggagctagca tgttctttgt ggacggggtc tacgccactg 840
cgtgttttgc tgttttgatc aactattct tgctgatcca ctatacttct cctccgaagc 900
catggggcga tgtcagtcag agcctgatct accatcaagt gcgtaagtat ttgcttcgtt 960
tgaagcaaga gcacgtcaaa ttttgagggc cccagattct cctctttgtg aacgacctcg 1020
aacacgaatt taaaacttgc gctttctgta actcactgaa gaagggttcg ttgtttgtgc 1080
ctggccatgt tattgttacc gacgatttct cgttcgccgt gccggaagcg cgccgacaac 1140
agaccacttg gacaaagcta gtcgagagct tgaaggtaa agctttcgtt aacattgcag 1200
tatctccttc agttgaatgg ggagttcgca atattgtact gaattctggg ctaggtggaa 1260
tgcgacctaa tategtcatt atagaccagt ttcgggaggg tcggtctctt ggcgagtcaa 1320
tataccacca taaccacat tcacatttat tatcgccaga tgcttccaga tctgagtcgt 1380
cgaagaaacc ggcagactgc cggacctacg ttaggggtgtt ggaagatcta ttgttccagc 1440
tacgtataaa tgttgccgta gccaaaggat ttgaggagct caagctgcct gggcaacgtg 1500
gatcggagtc caaaaaatat atcgatcttt ggcccatcca gatgtctgct gaaataaacg 1560
ccaacagtga aacgaaacga aacattttga ctacgaactt cgacacatac aactgatcc 1620
ttcagctagg ttgcattctg aatactgttc cttcgtggaa aaaggcatat aagctgaggg 1680
tagctgtttt cgtcgagtat gaaattgacg ttgaggatga gagaaagagg gttgaaacct 1740
tccttgagaa gttacggatt gaagcggaaa ttctggctct ctggctcgca tgcggtgatt 1800
tgaaaacata ccgcatcata gtcaatggag acccccttcc agaatgtcag gacgtccacg 1860
agacggtcca caagtactg aagaatgaaa attgggtggg ggatgttcag cgaggccgca 1920

ggagctcaga cgagtcgtta ggtttgagtt tgatgaacag gtctaggagc tcgtcccggt 1980
 ttgatgtctc gagtcaggag catcgccagg caccgccatcc gctggcgggc ggggtgcgga 2040
 agttgataca gtcttccaag cgcaggcgat ctatttccag cttcagaggc atgggggggtg 2100
 ttaatttagg catgcaaaca caccgattgc tagatgcctc gtcgatgatg acagtagtcc 2160
 gagcgacact t 2171

<210> 2199
 <211> 2455
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2199

gttcaaacag ggtcgcagca tcagggcgcg caaggccacc gttctcctga atcttggcgt 60
 tcagaacaga aagaacctca tcgggagtaa ctttggccac ggaaccggca gcaatatacct 120
 tgtccgcat ggccctttcc ataacatcca tggcgcgagt ggccagctca cgaacctcgg 180
 gaagagaagc acggtccttg actgcctgaa caccgggctt gagcttgggc aagaaagtac 240
 gagcctcggc ggggtcgtgg acgagcttgg tcaaattctc cacaacaaca acagtctgac 300
 gcagagtttc ctgaggagtg gttggcgcat tgagagagcg ctctagtaga ggagtaagta 360
 gagccagcac gggagaagtg acaatggcga cgaaagtcgt ctgcgatagg gcatggatag 420
 ccttctgcag ggtctgctcg gagggctgct ccatggtttt gatgagcagg gggatgcggg 480
 gctccacatc gtcgttggaac aggaggggtg tgagggcggt catggccttg caggcgact 540
 tgacaacatc gtttttgaga tcgtgcatac cagactcgac caacgggatg aggtccttca 600
 gagtcttgcc catagcctca cggaggacat ctttctcgag ctctgttcc ttggtccctg 660
 agcccatctg cgcacaaagg gccatctttt caatgagaca gtaagcacca acgaaaccct 720
 gccatttgcc ggtcccgcg ctcagatagc tggagatggc agggagtagc gcattgacct 780
 tggcctcggg tttgagggcg gcatacaagg catcgatggc gtactgggcg gcatcccgca 840
 cgacggcacc cttgtcggcc agcgcatcga gggccaagt gaaaacacca ccgtcttgga 900
 gaaggaagac aacttcacta aggggatgag ccggagggaa acgctcaacc agcgcgccga 960
 ggattagcat cgcgctttcg cgtctggcgc cattcttctt gtcgagggca gccttcttga 1020
 tttcagggag gataaaatca tattgggaaa acgagaacgg gccgacgctc tggatcagaa 1080

ggttggccag cgcatatgag gcatcaagcg actgctgaga agtctcggcg ttgaagatcg 1140
 tctgaagaag ggaagaaatc tcctggggag cgggaggaac ggccgagga gttttggcga 1200
 caacggtagg catggctggg gtggactcaa ggtgcggcat tctcttgaaa ttctctatct 1260
 tcgtcttgtt agcctccaac tgacgcaccg ctcaaggctc atcgactgaa ctcacgggga 1320
 taataaatgc agtcaacttt tgcggtata aaacaagaga aaaaagcag aaattatgaa 1380
 agggacaacg agaaagaaac ccaagaaacc acaagagaac gcgaaggccc caaaatata 1440
 gggagagagg agatggtgag atttgatgga ggggaaactg gaaattttcc aggcgataaa 1500
 gaatccatgt gcgcctcagg cagcggcggc ttaagttaat ggccaatgag agtggcaaaa 1560
 cagaaaaatc tgagtgtcca atcaggctcg cagccctgga ccggtgggtt cgactgtgac 1620
 tgtgtccctt atcacgtgat tttagttaag gcctaggtta tcaggctatt ataaggcaat 1680
 aattaggcat attaccccat cgaacctttc cgctttgggg ttaccccga cgagacctac 1740
 acccctttct gctcaagggc ttctctcccg ctctccgtgg ttgatataat tgtccctacg 1800
 tgtaattcta tggataattc gatgatatga ttaactcaag tgcaagagat acagcagccc 1860
 aagtgggtata gggtcgccgt actgttattg agctgtcata ccccataatt acccgtacg 1920
 gagttgccga acccctcatg tgataaccga gcgacaacac caccggttta ttgcaattac 1980
 acggaggaag ggaaatagaa agtacttcaa tgtagactat gagaggctta gtaacgggtg 2040
 ctgcaagaaa ccgtcgatca ctccgttcat cggatgcatt gtaactgggtg cagctcatgt 2100
 gccggggaca gcctcggcct gtgcattctt gactccgcg ccaaccggac cgctcttca 2160
 gctccgatcc tactgtctc ttaaaccatt tcacctcatt tccgtcttat ttctctcttc 2220
 ttctctctct cgacagagc ctaatcactt cctcattgat tcacattctt cagttctcat 2280
 acttctccaa ccgaatcaga ttcttctcga gatggctctt ccgctccgca ccgctcgtca 2340
 tgctcccggt ctagccaggt tatgttgctt tgtttagacg actctttttc tttttcatct 2400
 tttcttttcc attgctcaaa taaaattcaa tgagctaaag ttaatgcttg ataga 2455

<210> 2200
 <211> 1706
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2200

gccctcgatt ttcaagaact catcgaactc aagaacccgc cgtttacagc atgaccagcc 60
 tttgctgcct tcatgaaaaa cgggctggcc ggggtggttag acgcatcgct cctcatcccc 120
 cgacacgtcg gggttatagg tgccgccaca tcccctctc cggcaggttag cattctcagg 180
 gatcgcaagc tcgggatcat cagattcagg ctcttcagga acaggcgttag gcgcattcga 240
 gggaggaggg atagcaggcg agtgtgagc aggcggggga accccgctat ctctgacagg 300
 aaccggagca gccacaggag gctgtgactc ggctggcgta tccttctttt gggccggcgc 360
 aggagtatcg tctacggcg agtggtttcc tgcgtgcag ggggggattt ccataaattc 420
 ctcaaagggtg aggacggcg gcttgacga gttccagcct acattaaaaa ggtaagatta 480
 gcgatggctg cggaggcact aactcagagg gtacttgca gtaacatata cccaacatca 540
 aattagaagg accgatagag gaggtctact tacctttctg tccttcgtgg aatactggcg 600
 ggctggatg atacacacag ggctcctcgg ggtcggtgaa caccttccca cagcctttgt 660
 gtacgcactt ggtggccatt gtggttcgag gatattacta tctcaccgaa ctgagacaga 720
 aagacgattg ggaggatttt aagaggacaa tgaggcgcc gtagaagtga aaggtagggg 780
 agtcttctcg aaggagctga tctcgtcaga gcccaaagg gtttagtctg gggaagctcg 840
 aaggttccat tcggcttcct ctctccgacc ttctcagctc aacgccagtt acaacgactt 900
 caatcaaccg aacaatcgaa ctattgtcct ttatacaatg ttctctacag cacgcctact 960
 ccaagccgc gtcacgtct tccccgtgc cggctgcga ctctgcgaca ccgcaaaaca 1020
 caccgtgacc cagctgcata agcgcgggcc ctctgactac tctgaggttg acattatggc 1080
 tccaggcaat aaggaatgga aagatgtgta cgaactcgat gtcccagtct tacacgtgca 1140
 gtctggcacc ggggactct ccgaccgaa gaaattgttc catcggtgga ccgagcagga 1200
 ggtagagacg cttgtcgaca acgccgagaa aacaccatga gagtcaactc gtggattatt 1260
 atgtacatg tgctacagca gttcttacgg cggccgacgt tatgataatc caaacgaccc 1320
 gccttccgca tcgtgttcg ccgggtgcaa tatgaagtat attcagaatt ggatttatcg 1380
 tgtccgatca taatgcaat aaaacccgcc aacatgcgat ggcttatact tgaacgggtg 1440
 gatagcaact ggatctttca atccgttcac tccaccgaa tcccttgta actgtgagca 1500
 ggtaaaagg gtcgaccaa tttttgatcg aagaaaccgg taaagtactt ctggcccaaa 1560
 atgaacaaag tgggtgggctc caagggtcgg cctattttgt atgaccttcg tgggagtaaa 1620

ccccacagga taaaaaaaag tgtcctctgc aaatttggat acttgctcga agtggcctat 1680
attcttgaaa aaataccaat tctccc 1706

<210> 2201
<211> 2236
<212> DNA
<213> *Aspergillus nidulans*

<400> 2201

ccatatgaat gccgcgcaga gagtgatatc gagccgagca ctggccgcga cggctttttt 60
accgcgacgc caggcaaata cctcagctgg acaagcgcat acatcctcgt agtctcacgg 120
gtcatcggca ggggcatctt cgcgaccccg ggctcgatcg taaagtcac aggcagtatc 180
gggctctcgc ttttgctctg gggcgccgga accgtccttg cggcatgtgg aatggtcata 240
tcgatggagt acgggtgcat gctgcctcgt tcaggcggcg ataagggtata cctcgagtat 300
acctacccta aacctagata cctggcgtct acgctcgttg ctgtgcaggc cgttctcttg 360
gggtttacgg caagcaactg catcatcttt gcaaagtaca cgggtgttgc gttcggcggc 420
gcaccacag agctcactca taagctcttt gcgacgggtc tgctgacct catcactatt 480
gtccacggcc ggttcgctca gacgggcac tggatccaga acgtgctggg atggctgaag 540
atcttcctga tctcatcgat ttccctgacg gggatctggg tcatacctct cgggccaagt 600
ggaattgaga gcggtgccgg cgctgcatct gcggcaatgg atcagggctt gatgaactgg 660
gataccctct gggagggctc aaactggagc tggaatctcc ttctgacctc gcttttcaag 720
gtcctctact cgtatgccgg cctgaataat gtcaataatg tgcttggcga agtgcgcgat 780
cctatccgca cactcaagac ggtttgtccg gccgcactct taacatcggc ggcgctgtat 840
ttgctagcca acctctcgta cttccttggt gtcccgtta acgagattaa gcagagtgga 900
gagcttggtg cggccttgct ttctgatcgt ctgttcggtc cgcgtgtagg aggaacgctg 960
ttcccttttg ctatcgccgt ctctgcccga ggtaatgtca tggttgtcac atttgcgctg 1020
gtacgtctta tctcactttg attttctttt ttccacctcc aactacagtc ctaaagaaaag 1080
ggagaacagg cccgagtcaa ccaagagatc gctcggcagg gcttctctcc ttggggcgac 1140
ctcctctcct catcgaaacc attcggcacc cccctctggg gcttgatagt gcactacatc 1200
ccatcaatcc tggtcataac cctcccaccg caaggcgacg tctacaactt catcctagat 1260

gtcgagggct acccggttac gattttcggt ctgccatca cagtcggcat gctgattctg 1320
 cggtatcgcg agccgtacct gaccggtcca ttcaaagcgt ggttaccgcg tgtttggcta 1380
 cggatcggtg tgtgcttggc cctcctgggt tcaccgttta tccccctcc agggcacaag 1440
 ggtgatgtgg agtttttcta tgcgacgtat gccgttgcg ggaccggagt gtatgtccat 1500
 tcatcttttg cattctcatt ctctcctgta ggttccgaag tgatgctgac tgatcatgca 1560
 ggcttgccct tggagtgatt tactggtagc tgtggacagt cttgcttccc agatggggcg 1620
 ggtataaact cgaggaggag gagaaggtgc tggacgacgg aacagctgtt acaagattgg 1680
 taaaggtttg agcatctgta gacattccta ctacatttca taggcgtaaa ctactttact 1740
 acgggtcatt attattttca ttaatatgtc catacggaga tcgcttccaa agcatgatct 1800
 tgcagcaaag tagtccagca ttaataatca gctgcttagt agctgacagc taggttgtgt 1860
 tagcctattc ctgcctattc aaatgccttg gaaatctaac gtcattgatt agaaatcaga 1920
 caaaacccaa ctgcatcctg tacatgcaac ggtatacagc ttgattcttg atcactcagc 1980
 acagaatgga agctatccaa tcgtgccgct ttcaacttat cagcatactg caagcatctg 2040
 tcacactgat gattgctgac tggcctgaca tattggcatt gcgcattgtc tgacccccca 2100
 tgtggagaca tataatagta accggcactg agcacactaa acttcaggct cagatctcaa 2160
 gactgcactt gtccataccg gttcaatact tagacctatt cagatacttc aggcattaca 2220
 ctgtcaaact gctaga 2236

<210> 2202
 <211> 4950
 <212> DNA
 <213> Aspergillus nidulans

<400> 2202
 ctgtaacgct ttagactcta aagtccccgc tgtcgtttcg ctgctgtact tctggtcgct 60
 ggtgcttcga gacacgtgga ataaccggtt tggcgagaca ctgatactga tcgacgaaac 120
 gaggtcatcg agggtagcaa tggggctacg gaagggaaga tgctgcagat caacagcttg 180
 gtacgcaccg ttcttagtac ggtagaagct ccggtatttg cggctgcagt ccttgccatt 240
 cttgtttctg gcgaacggaa tttcttcagt caccctgtga attttggaac ggagccgata 300
 gccagtatag ggcagtgggc gccgattgta ggtacgggct ttgcgatatt cgggtcgcgtg 360

tacctcttcc tcaccgacga cggcgagaaa ccgtcttcag cctgcaagtg cacttgccat 420
 aacgccaag gaccaagttc acgcggcaca gaccagcag cgtccacaaa cagcagcgag 480
 ttagccatt gtgagataac ggctgtagct agccctgaac ccgcacatac ccatectacc 540
 caagaggagg ccgcgactt tggctaccgg cgcagcatcg gacgagctct caagcgctg 600
 gcagacacga tcagcattgc cgctcacgac cgtctcaccg actatgactt caaacaaggc 660
 ccggcccttg actttcccga gataccagcg gaggagcagc ggaacagtga gctaccgcag 720
 atccgtgatc agtataacct gaagcgagac tccactgcca gccgcaccct ctcaagggtt 780
 ggctcaactg tcagcacagc ttcttgagg gatggcgagc gaagttcaac gacgtctcac 840
 ggcatctctc cgcgctcgtc cagacagtct acgcggctcg gatccccctt gcccttgccc 900
 tctccgtctc gaagagacga tgaatcctgc acctttccgg gctcgcacga tggctctcct 960
 tcctcaagcg atctctctat cctcaacacc cgtaggcgtc agaacaccct agagggtcca 1020
 cccaccatg gtccggtgag acgcagttcg tcaatatcgt cagcctcaag ctccaacttc 1080
 acaatggctg gaaatctaca atcgccctacc attcgggtct cagcagacga cgacggttct 1140
 cctgtcttcc ctagacctgg ttctccagag ccaaaccaag aggtcccgcc tcacgcgttc 1200
 cgtcacggag ggcggttcac ttcggttaata gatatttgaa tagagagtgc atatcttgga 1260
 ctgcataact tctaaaattc gccgagagct atattgactt ccagtgatcc ctattttctt 1320
 aaggacatgg ctttacggct agtatccaat cgccaactta tgacaaaacg tctaccaga 1380
 acctagagct aaacgctgat ccggcagagg ccaacaattg tacactagaa ttagtcgcct 1440
 gtcggcgctt tcgcaagatc attggccgat ttgtcgggat tcagctatcc ccgcataatc 1500
 tccagagtac tccaggtttt agtacttggt ggctcgacgat ctatctcccc atactttgga 1560
 gaagatacaa aggccagttc ccaatccttc gccaatgct ccttatccgc gatgtagctc 1620
 tgtggctttc actggtggcc tgatttcgtg tattagccga gctgctttct gagtattaac 1680
 cgcggatata cgtattgatt tacagtatca tgcagaatat ataaccgcag caccggctcc 1740
 accaccagct gtccgttggt gaatggagct cacacttctt tgggcagatc tcgtcattca 1800
 cccttttctg caggcagtat gacatctcaa cgtgtcgttc cttctgaacg tgaggtcgct 1860
 gagcttcgga gggtagagg tcagacagcc gatctcatcc gccaggcgca agagagcgat 1920
 gaagccgatc gcaagttgac catccgtcag gccgtgaaga aatacaaaaa agcagtcttc 1980

tgggccttat ttctgtctac tagtttggtc atggaggggt atgacctggt gatagtatga 2040
 ggccttggcg atcaatcctt gacggatact gactggcatc agatcacttc attctacggc 2100
 caaaccaggt tcaaggagcg tttcggcgtc tacgaccag cttcagacca gaagctgatt 2160
 ccagctgcat ggcagtcgg tatatcgaac tcggctctgg tcggccaact agctggtctt 2220
 gttgtcaaca gcatctgcca ggaccgggtc ggctgccgtc gaacaatgat ggtcttcatg 2280
 gtgtggatgg ctgtcgccat attcgttcct gtctttgcgc catctcttcc agtgctcgct 2340
 tttggagagg cattttgcgg tataccctgg ggcgtatttc aggtaaatat ccgcgaagga 2400
 catgagcttt tcttgtctga ctttgcttat agacgtgtc aaccacatat gttccgaag 2460
 tagtgccaac agttctcaga ccatatgtca ccgcgtatgt ctgtatgtgc tggggcgccg 2520
 gcatccttct ctctctggc gttgttaggg ctgtagcagg actccagggc gaattgggct 2580
 ggcggctccc attcatgttg caatgggtct ggccccctcc acttttcatc ggcgcatact 2640
 ttgctccaga atccccttgg aactcgggtc gtcgggataa gatcgacgag gcaaggacaa 2700
 acttgatgcg gctataccag gatatgccgg agcgagagca tcaagtggaa caaaccttgg 2760
 cctatatcaa atacacgaca gagatggaga aagccgagac tgccaacgct agctttctcg 2820
 aatgcttcaa ggggaccaac ctgcggcgaa ctgagattgt gaggttcctc actaccgttg 2880
 tttctctggc ccaactgact ggtctcagaa ttgtgttgtt tgggcagccc aaattctctg 2940
 cggaacgcg atccttggat actcagtcgt gtttctccag gccgcgggct tcagcgaact 3000
 gcaagcattc aacatcaaca tttcgttata ggccgtttac attgtcggcg gcatcatttg 3060
 ttggttctc tccccacg tcgggagggc gacaatctac atgagcgggc tgaccttcat 3120
 gttcttctgc ctggtcacca tcggaggact agcttggggg ccagggaag acgcccagct 3180
 tgccatcggg atcctccttg tcatttccac gttatgcaac atgattgcca ttgggccgac 3240
 atgctacccc attgtcgag agacaccgtc cggaaggctg agatacaaga caatcaccat 3300
 tggtcggttt gtttataacc taaccagcat attcaccac tctgtcacgc ctgcgcatgt 3360
 ctctccaca tgtaagttgc ctcgatcgtc cttgtgcgca attctgactt gggaacagcc 3420
 tgggaattggg gagccaaggc cgccttcttc tacgcagga ccaacctgct ttgcaacatc 3480
 tgggtgctgg ttcggcttcc tgagacgaaa gatcggacgt ttggtgaaat cgatctgctt 3540
 tttacccatc gtgttccggc gaggaagttc aagtctactc atgtcaaccg tacgtacttc 3600

tcaaacttat tctgcttcgt attcattaac tgattgacag aattcgccca tggcggcgac 3660
tatgtgtcga agcaagaggt cgaacacaag gagaacgtgg aataggcaga gaagactttc 3720
gcagtattac catgaaactt ggaactttaa tgaatacttg ctctgtataa tggccgtttg 3780
ggataggagt gttgtgatat gagtgtcaga tagcaatgca tttctttacc taaacaaata 3840
tctatcttct cgccacacat tccggagcta gataacaggc attgtgacca acagtactgc 3900
tatgcctaag aagcatggcc gagagtctcg tttggagaat aaatgcccg tccatacag 3960
ttgagcgact gaacgtgtag atggtctcgg ctgtaggcta accccacgtt ttggaaactt 4020
atactgacgg agaaagcgac caatcagcgt gcaagagccc cgacgccccg gttggagtca 4080
gcgcggggaa ctcaagttgt agacgcagta atagtcatag gatggccatg caaactgcct 4140
aagaggcgag atcgatgtgg aggacttctc atccactttg gacggctaata tactccacgg 4200
catcagctcg gtctgattgc agctggagtc ataccgcaga tggagcgtcg tatttaccga 4260
atggaaagt atagtgttgt cttccggacg ccagacaaag ctttaaagtc ccatcacttc 4320
tcacattccg ttaagcgcaa ttcacagtct cagtaggtga ccttgtttgt ttaccatggc 4380
tttccagcaa gtgcctgtcc gtaatgtcaa cattacgtcc gccttctggt cgcaaagcg 4440
gcaatgtccc aaagaaaaga ccattccagc cattatcaaa gcgcaaaagt ccttgcagca 4500
ttggtactgc ctgacgtgga aagaggggtca cgagatccag cctcatgtga gtgagcgcac 4560
tcgcacaaaa tagagccagt actgataatc ctgcagcctt tctgggatag tgacatatat 4620
aaaatcgctc aagcggcatg ctactttctt atgaaagaca aggacgacga gctgatggct 4680
actgttgagg aggcggccga catgatacga gcagcacagc acccggacgg ctatatcaac 4740
tcttattata cagtgttgg aatcgacaag cgatggacca acttacgcga tatgcatgag 4800
ctttactgtc tcggccatct aacagaggct tgcgtagcct atgagaccct caciaacagt 4860
ggacggttgt tggaaccggt actgaaggcc cttcgacacg ttgattctgt ttttggagcc 4920
gagccgggaa agtagagagg aattgagaga 4950

<210> 2203
<211> 2879
<212> DNA
<213> *Aspergillus nidulans*
<400> 2203

ccgatgatcg cacaacgtgg atcgtcgcta caacggcgta gtttggtggc ctccggtaca 60
 cagcctcttc agagatgaat tgctcgtaa cagtgcaggg taggtcgga tcgcagtctt 120
 ggtcggtgat cagtactggg ttgcccattt ccaaggccat gatcctgaca gaaaattagt 180
 ccacaacaaa aatacgacag ttcttaactc cacaaccta tcccaagtat acatcccca 240
 ccaaacgcgc ttgcgcattht cccctcaag tacaggccaa ggacctgact ccagatgtaa 300
 tcctatttcc tgagcaactt taacggcgga tccgttccac acccagctag ctgacgtcga 360
 attgacttgc taaagaaata tgctagctaa caaggcgcc cgcgctgat ccaatgtgaa 420
 gttatcctgc caaacatcga tcaccccgca agatgttctc acgtactctt tgcccttctc 480
 ttcacggttc ggggtctgaag tatgtaagga accaaggcg aatacactga acaaacagc 540
 tgccactcgc cgaggaactc ctatgagtga cccgcgacgg tacacctctt cgtattcttt 600
 cataaacgtt ggccagtga tccacaggga ggtggtatga atatgggcat gatactgagc 660
 gagaaggagg tgggcaacgt cttgcggcgg aaggggggga gggctgctg tcaacaggga 720
 tatggagtcc gactggcgat atggcgagg gactttccag attcccttc catagcgccg 780
 tagattagcc ctagcattgg agagatcttg tgaacagga gcctttggcc gacggcgccg 840
 tctgtaacct aagtcaggta aatttatttg gagctgtcct ggcccgctcc cgtccagatc 900
 cgtcaggtta tccgacctca tcccgaccg cagttgctgg agctgttgte tagtcgacca 960
 gagttgtttt tctagatctt gaacctgcct acgatcctgt cagaatgaca actctttatc 1020
 gatcgagaat gcaaggtagc aacttgatag aggacatgcg tctgttggtt tctttagtga 1080
 attggcatcg aaccttgccg tttgtacatt ccgtacaact agcagactcg gaggcacgc 1140
 actagaagaa gagcgtagtc agagcataga acgaagacgg gaaatagtaa agcctcctgt 1200
 accttgacct tgcgtcccg gcaggcatcg cagctagggt ccttccttcg ttgacggtag 1260
 gccctcttct gctgtaatgg ctgctgatgt tgcgctagcc cgcctccgtg ccggaaaatt 1320
 ccacctgcgc tcaccccgga gccattagca gatgcacctt ggaaagtgc ggcgcccgct 1380
 tccgatggag agacgctaga atcatatggc gagtatttcg ccgtagatgt tgggtgcagg 1440
 ggcggtgta ggatgtggga catcggcaac ccgcccgtgg gccttgctga ttgagtggaa 1500
 agaaaagcac tcggctgcgg gcctggctga aatggcatcg aggaagtaac ggactgcacc 1560
 ggaggcagct catagggagc gccattggta ttctgattag tccacgagcg tgagtaatgt 1620

ggctccatat cggtgtctca tagaagcctc ataggaaaca acacgcagag caagcgctga 1680
 aatttgtcca gatccagaag gacctgtgat tgctcctcaa gtaaggggtt aaatgatttt 1740
 cgtgacggaa agcagatgta tgtgcaggag cggggattca cacgaggaac aagatgacgg 1800
 gcttgggggtc aaggcagggg accgaggaaa aggcacgaca agaataagagc aaatcggaat 1860
 caaccgtcga gaccgcaaga gagctagaga gcagcaaggg cctccccgat attcattaat 1920
 gtgggatcaa gcgccagtcg cattaacaat aacaaaaggt gggactgagg cttatccgtc 1980
 aacgacgccg ttggacagct gggggcatga agcaagcaca aattccggag ccagtatccg 2040
 cagtaaagag ggtctcagat aaactaatgg cggcaggggtc ggttcgtgaa gagaaaggat 2100
 ctaagcgacc tttgattggt agaggagttg cgagattgag gaataacggg agagggtgaa 2160
 aaggagggggc acgaggaaag ctaaagaagg aaagggactg gaaggaaaga cagaatcacg 2220
 aagagaggaa gagtgcagaga gcaaaagagt gagagaaatg aacgtgggag taacagtgc 2280
 agcgtgggat tggaggagag gaagaaggat gatggtggtg gatggcggat gggttatagga 2340
 agcgatccga tggcagaagg aataataaga atcgggacta catccaggct tcaactggcgg 2400
 agatgcaggc gacttcgaaa cgacagcccg actgcaagca aaaccttctc aatgcttaat 2460
 ttggagaagg gaaggactgt tcaactgtgat gatactggga ttgtagaata ctctgacag 2520
 aagttctgac cattcatcca tccatccttc cgtccagatt ttgttccgcc caatggcccc 2580
 aatcccatat tattcgcatc tactaggctc tagctgctct agctcactct cagttagaca 2640
 gtaatccaca gccctcagc ttcagtcaat cagcggctct cgtcagggtc catccaagcc 2700
 caggaatcaa ctccgacagt tccaactcgg caggccccga tggccagcga aagcacgcta 2760
 aatgctgaaa cgccggttcg ccgccatgcc agatcgagat tagaccatgt ccaaatcatg 2820
 tgggtggaag gggagggggc ctgcagtctg cagaattcca gtcagcattt cgatgtggc 2879

<210> 2204
 <211> 2306
 <212> DNA
 <213> Aspergillus nidulans

<400> 2204

tgccaaccgt actgcaccag tggacaccga acaaccctag taactggtag accagcagag 60
 tttccggact ttctggactc ttttgactct gactcgcagt caaattaaaa ggcaaagcct 120

ggtttatccg atctcgcttt ggcttcttaa ggctgagatt gtaggagaat tagggaatag 180
 aaacgcaagc gataagctca atatcaaccg agcagttctc gactatggaa gacagtctga 240
 aagctcatat accgcaaaga gtctcccgaa tcaatattgg acaatctctg cagcaaattc 300
 catctggggt cactcaacct tgattgacac ctaatgacgg gttgggtctag ttacagcttt 360
 tgattggctc gccgaccata ttacatcacg tgatatcagg acacaaagaa cgtgagatcg 420
 cattcagtat gttggaaggg tgttgtgagt ctatatctac caaccactga gttcatggat 480
 aaatgcccaa taggtatgcc atttgaaaga tatttatcaa gcttagccgc aggtcccggt 540
 ctgaattcca tacctgttgt atcttttaca gcgtgatcac gaagtagata tatccatccg 600
 ctgctgcctg aggcgggaac gagagtcggg aagagacgtt tttccataca gctcgcacgc 660
 ccgctgcttt agcgaaactc cgatctctgt ttgcttggtg tgattttacc atatgaagat 720
 cgatccact tctcagacca cgccctagca acacccaca aaaagaatcc attcgaaggg 780
 aaaaaatttc attccctttg tcattaataa aattgacaat tttagcatgc aataataagc 840
 tgtcattggt ccaactactca tcaccttcat cgtcttcgtc tcctaattca gcgtcgagat 900
 ccagtacttc atacctaata gcgccggcgt acaacacaca aatcgccctt cggccctgcc 960
 gtccattcac atcaatccta attggtcgag ctttggtgct gaactgatgt ttgactagct 1020
 ggaggggtga gatatcaacg tccgtccttt ccttcacggc atcgacgtgg tgaacgttgt 1080
 gataattgat tgtaaattgg taagcagagc ctgggtgggt tacatgtcgt ggtggttga 1140
 atgggagttg caggacgtaa gaggttccaa ctgcaggtat gttagagtga gaaagattcg 1200
 ggattagttg atgtagacgc cacataccgt tatttgacca taggaccatc atattgttgc 1260
 cttcggcaaa atgtacctgg cgaataatgc cctcatgaag attgattact cccactcgag 1320
 cctctcgggt ggaactgacg ccgttttcca tgttgaggac cactcggtaa acgtgtagta 1380
 gatgctttga cgtcgctaata cttgaagcaa catatatcac actcgattgc tctccgcttc 1440
 cgacatcctc gtagcgcacg gtcgaatcga aaaccgtttt atcacattca tgatgtagcg 1500
 taagcgggtga ccgatgcagt ataccgcgtt tctgggtcac tgcaatctgg ctgaagacct 1560
 tgtcgaactg cagcccaaga cgttttgtga gggtattgag cttggggagt tcaaccagtt 1620
 ccgcatcagc agatgctttg ctttctggt tcaacagttt cttgaatttg tcatagaacg 1680
 atctggtatc tccgtctgta gggaccaat tgtcctctga agggggaggg ggtcttgcca 1740

agcccatcat gggtaactgc tggatgtagt ttcgtagcga gctcttggtc aaggcgctc 1800
 tgatgtactt tagagtcagt ggatattcca ctagatcagt tttctccatc aattcttcga 1860
 gagtttgtga catgggttct gcactaagca tctcaatttg gtgacgcagc caacgcgaaa 1920
 atgcatggaa ctgggtcaac tcttcgttcg cggatgatgag gatgtgatgg gctagaagat 1980
 gaagacagtc gagcgtctcg acgatagcat tgagggtccga ggtctctagc ccaaggacct 2040
 cgctcagctt ctggaacttc gaaaggccga ttagccggct aagtagaacc tcgcatcgct 2100
 ccaaagctgg aaggagacac ttcgtgtgtc aatcgctga cattctcgta gccactcgca 2160
 acggcttttt tccatctttt gtgaccctgc atcccgtag ccttctacgc gagagtccaa 2220
 ggaagaggcg ttaactactc gttccccac gatgaccgta aaaattcctc aagggttaaa 2280
 acagcaccag tgacatcaaa tatagc 2306

<210> 2205
 <211> 1326
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2205

tategcgcaa taaccctact aaggatcaag ctcgatcat tgatatctta aagagtgaaa 60
 agtccagtac agacaggtaa agactctcaa caacgttaat ccaacgaaca ggagcaagtg 120
 ccattatcca tcatatcata cagtcggtct agacttgatc accattattt cttttgttgc 180
 agcactttca cctcgcgggc taatcgggta tcagcaaattg cggggctcga atcctcccag 240
 ttcccgcгаа acaccctccc aatacacctg ccaactcgacg agccgggtgg atggagcaat 300
 ctgaaataac aaacaaaaac agaataagaa tactcgagaa aaggaattag atagtgttag 360
 ctctcaggt tcccttaacc ttgcgcttga gccaaccaaa gaagccgctc tttcgcttgt 420
 cggccttgga ggtctccgat tgagcagcag cggtttgctc cgtggtggtt ttgccctctt 480
 cggactgcgc ggcgccatcc gattgcgctt tatcagcaga ttgtgactcg gcagccttgg 540
 cctgttgca tttctgggtc gcagcacgcg ccgcagctgc gctctcgctg agtcccgaag 600
 gcttctcagg ttgagtctgg ttggaagcag ccggcttata agcagcgcta gaggtggccc 660
 cagtggcttc gctgacaacg ggtgccgcat gggccttttc cgggtggtgtg acggcagccg 720
 ggggcttagt cacctcaggg gtctccagct tggacttgga aggttctca accttctgct 780

tgtcatcccc agtcggcgca gcggttgag ctgcagcggc cgctgtgggc ttggacactg 840
 caggctcctg ttgggctgag ggaactgtct tggattcttc ctgagcagta gtaccaacag 900
 tagcagcagg gcctgttggt gcatcagcgg tagtcttgcc gactacagac ggctccttct 960
 gggccgatgg cgtctccttg ggcccttcta acgtggcggg tgctccgag gtgccggcgc 1020
 ctacagccgc agctgcagct gtgggctgag tgaccgcagg ctcatccgtc ttggggagag 1080
 ccttcgcttc ctccctggcg ttctcagtgg tagagtcaac agcagtagtt gtagcagtgg 1140
 tggtcagagg cttttcctca gccgggtgct tctcactctt ggcaggttca ggagccttcg 1200
 cgtctgaagg aattgtctct ttctgagcag taggaacttc ggaggtagca atagcctcca 1260
 cagctttagg ctccctccgag gtctcaaccg caggagtagc ctccctgttg ttaacgacgt 1320
 tgctgc 1326

<210> 2206
 <211> 2331
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2206
 gccatgtgtt aaagcgtttc cgtttctgct ctaaccggaa ggcagtagca caaccaaacc 60
 agcataaacac ctctatacta aacaccacat ataacatcat gcctcgcgga gtcgaataacg 120
 ctcaggacaa ccaagtgtcc gacaacacct tcgaagccgg tgacacgaag gttcacggca 180
 caaaccocga caacgaccac atgaaccgag tcgaccgcac agcgcccatg cctgaggtga 240
 ccggctcctc ggaaccgtac agtggacagc ccattacag taacctgcat ggcagcggca 300
 aggggtggaca cgagcctaag aactgggagc agaacaaggg ggtcgggtgcc catgggtggt 360
 taaacggtta tgaataggat tatgaggatt tggactagtt gggccaggcg cctaacttcc 420
 aaacacatat aatttttttc tcgcaccttc ctgtcggccg ccattgagtg gagggctgat 480
 attggagttt atgcattata taaatatatg attgaaacga agttaagaac ttctgcatcc 540
 gaggaacact gtttcaatcc gattttagg atatattgac acgaaatagt aaaaaatata 600
 taatctatgg acgcatggaa ggacaataat taatatatac agtcgctgaa aggcgcacac 660
 atggatgatga ttataggtac aatatcagtg ctggccctgt cccttggcct ctttttgaga 720
 ctggggtgag ccttgccctg aggatctttc aggggactct tgagctggcg cttctgtcgt 780

cttcttgtcg accagttcca acaaacgttc gcccaaactc ccgaaccctt ctatcttgc 840
 aagtttgggt tgaaagtact ccgcgtcgcg gtgcagccta cacaaatcag tataactttc 900
 gacaaatgtg ctggaacggt gtatacctct gctttccaac ttccgtcttg atttgagcct 960
 cgtcaaagcg cggggtccac tggctcgcg aactcttgaa gaccgggtcc atgatcatta 1020
 tgactgtcat ttccggcaga tgtttgctca gtactcgggtg taacgtgccc gtctccttcg 1080
 taagggtctc catgtacgga ctaacacccg cgggccggga gctggaatcc cagtcgattt 1140
 gccgcatcgc gttgacatgt atggacgatc gagatcccat gatatccaca agcttttcat 1200
 ggatgccgga ctgatgttcc tggtaacaac gcttcacctt gtcgaaatca gccatcaagg 1260
 aagcaggcgg tgaatgtcga cggacaaatt ccctaagtga ggggaccagc gcgatgataa 1320
 aactcaatgc ctgcgaagac aacgcaagat gtttcgttgt gatgttcttg agaccagcgc 1380
 tcttggtagc ccccgcacct aggattagct gcgatgaccg cgagttgaat aattttagt 1440
 attctagaag accagacgag atgtctggta tcatgttggg tatgtttgcc atcaagaact 1500
 gatactcttc gatgcttctc atcatcgcca gtgctgagtc tgagagaata tacttttgct 1560
 catcgatcac ggcagaccgt gtcttctcct tctccttga gccattgact gcaggagaat 1620
 gtggtggctt ctgctccttg gcaacccaaa tcttagagac gtcaatccag gtgtcaacgt 1680
 cttttgtgct cgcacttaaa atacggtcaa gaacctctga ctcggtattct ccaaagtctt 1740
 ttgcgtccca ccgatcagcg tccattacct gtacgatccg atgcggttgc tcgttaccga 1800
 accggttgat gaagtcgcgg atctggtttc caacaacggt cttaaaggca gttccacccc 1860
 gaccagaaat agcctcgcat tcgtctgcaa agaggcgggt caggataaag tacttgacaa 1920
 aatcttcctt gcagagattg gccgtctgct cggatcggac cttcagcact ttggtcgcct 1980
 gagactgcgc gatgtcgacc gcctgaccga gcagactgga catgtccaag acttgtagga 2040
 tctcatcttg agctgcatgc ggtatatccc gcgggccggc atttccgaca ggcgacttag 2100
 gactttgaag acttcccagt ccaactggcta tgtcaaggag gacttttgac ttggacactt 2160
 aaccgctcgt aaagattcgc taacaccagt gtacacttgc gcagcatgtt gtatgcatct 2220
 tcggcatcca tagcccgag ggtacgggca agaattggac acttctcctg cgagctaagc 2280
 tgatgagatc tgtgagtaga aaccgacacc atgggactcg tatcgcgcat g 2331

<210> 2207

<211> 2665
 <212> DNA
 <213> Aspergillus nidulans

<400> 2207

```

gaacaatacg aaggactttg cttttatgag cgcacatgct cattcgactc attttactga   60
attgactggg cgtttcatca tcccggcggg cgggagcggg tgtgggagcc tccgaacgcg   120
gagtcggctt gttaaagtca tcttcctctt cctcggacat gttaacctcg tcatccgaat   180
gttcaatagt ggacgataag cttgctttct gagcgtccca aattcgccga atagacgttt   240
cataagactt ttgttggcgt gcaacgttat agctgtggcc gccagctcc ttcaaactgt   300
gcgcgtccaa tttgtcttca acactctcac caattgcttt gaacctctct ttcatgatg   360
tcttgatgaa actgaaacct tctccacgtc ctgtagggtc tccctcgccg tgcagtttca   420
gcatagcttt tcttgcgac gccagtaaga agtttcgact ggccttccac ggcgccat   480
gttgcataaa actttccgac tctcatcgt tatcgtcgtc gcctccagtc tcagcatcat   540
tgccatatcc ggtatcatgc agatgttggt gaccgacttg catcgctca agaagacaga   600
cgtcttccgg ttgcacccat gatcgtatga catcctgctc tggtaggggt tcaagaggca   660
cccaatat   ggtgtcttta tcatgttgaa ggaaatcctt gaccttctgg cgattctgca   720
tgtcactcgt gccaggaatg tgagcagtga cgtcgcttat ggacagccga agtcagggt   780
cttcttcagt aggcggtaaa ccagcatctt catccggttc tttgcaaccg tcgtaacctt   840
ccgagagtgc ggaccggga tatcgacaga aggaaactgt tgcccagcca caaatatgtt   900
atcaatgttt cgaatgtagt agtcactacc acctgaacct gtactattgc gaatgacaag   960
gaaatcagtg gattttgggt ggtgggagaa caaaggcgcg cgatacatgg cgttagagat 1020
ggcgggtgtc acttcccag gatcaacgtg gccgaagatg gaaaacgggc tcttgtcctg 1080
aggcagaaga actgcggttt ccccaatctc ggccttaggc cgggtagggt cttccgcgtt 1140
cttcttccta taataattga tgatacgtt ggccataccg aaatttgaga gggtagtggt 1200
tgactcctcc gaatattcaa ccaatagaac atgggagttg tctgccatcg aaagcgattt 1260
ggtcgagtcg tagagctggc gaatatcctt gcccttctgg tgcttgcggt taatataagc 1320
aggattcttg aaccaacagc tctgtccagg tctaaatgat aatgctggac ggtggaaaga 1380
tcttgcttcg gccttagcta gctccgtctt gtagtaaggc cactgcaaac gtaatgcggg 1440

```

catactgtgc tctagagtga cattacccag agtgctgcga accttgttct gatggttttg 1500
 ttttaagcatg tcgtaggcct ggctgtttga aatgttatag cgcgctgtga gacgccgagt 1560
 aacgttggca tccatctcat ctctgctgcg gacgcctgat gctctgggtt tcgatgcagc 1620
 agtatcagga cctcgctcat caagcagcat gtatgggtcg ttcaagtcca aagtgcacct 1680
 ctgcgcaacc ttggagcttg cttgctccgg atcgctcgagg agaggcaaata caatatggga 1740
 taatgaaact atttccatgg gatctcgccc gagtttgcgc ttcttggctg gccttgttgt 1800
 ctcaaaaagc cagtcactct cggcgctctc tacaattgca ggctcgctga tatccatagt 1860
 ggggatgtca tcccgaacat cccagtcgcg gcagaccacg cgaagatcat ccgcggtgat 1920
 gcctccagga agtgggtcgt cagattcgta atcaagatca aactcgctct gagcctcttc 1980
 ttctcttctt tctcgcatg tctcggcaac tgggacaatg ccatgggtgct cggcttccaa 2040
 cgagcgcttg aacgtttgac cgccagacct gaaaactttc tctgatcct gtgctaattc 2100
 gatattcact tttcctggca gaaccggctt tggcggcttc agtggcggtt tgccctacgaa 2160
 ataggccttc ttgtgtggaa tcaattcaag aaaacgagc agggatttgc gctcgaacat 2220
 gggaaataaa gattggagca gttcttcgac attctcaggc ggcgccggag gattgtctgg 2280
 accaacgttg gacatggcaa acaaagcttg ctgtaacttc caggcacgta gagaagcagg 2340
 atccatatca tcagcaacag gacttaacgg ttcacatcc tgcagtaatt cctgatcctc 2400
 gtccatctga atcgctgtg gtcgctgaac tgccgctcgg cgctcgttcc tctcaaaga 2460
 ataaatcccg ggtctcgtc gctaagtcag ggcgcggtga tgaaggtgcc tccccaaaca 2520
 agtcattcag ctgcgctggc gcacgtgctc atcttttcca ggcgcttcaa ataagtcac 2580
 ccgccacctc cgaaaaggc atcatccgat gtttccggag cttcaaggcc attttccgcc 2640
 actgctcgtg cgttgtgttg ggtga 2665

<210> 2208
 <211> 2545
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2208

cgactacgg atcctctctt actccccac attcggagaa gactctgca gaccaccag 60
 aaggatacag tcggcctgac taatgcacgt ctgcgtccac ggggagttca cgttggtatc 120

agcgatatat agaaccatcc catacttttc ctccaaatcg gccaaatact gcgacagctt 180
 tagcttcccc attctgctaa aagcgtgtcg gccaggtgg ttcaagatag ctgcttgatt 240
 cagcgaagtt acaccatcgg taacgccaat ttgctgaaga gcactcagca gccgattgcc 300
 aaactcgaca actgggacgc cggtcgttat gggaaggata ccgacagtgc ggagattgag 360
 ggttgacggt gcggttttga cactaccggt attgccaggt tcgccttggt cagtcatggg 420
 gttttcaacc aaatctcgca ttcgttgggc aatgagcttg gagacctgaa ttgttatccc 480
 agtgtgttct tgcgaagac tgttgaagag cgatcgagga aattttgcca gctcgggtatc 540
 tcgtattgcg tgcaacgtag ccggccgtgt cgattctgtc atcacttcca actcgcccac 600
 gctctctcct tgtccatgct cgccaaccac ggtcatttta cccccttgc cctcgtgaac 660
 tgatcgaagg cggccgttta gagtaatata aatagcatca ctttcgtcac cctgggtggt 720
 aataacttgg ccagcattta cctggacca ctccagagcg aaatcgatgt ggaggaggag 780
 gcgcggaaga aggcctgtaa gtctctttgc caacgttaac agggcaattg ggtaccgctc 840
 agctaatctc tctagagagg cccgcggaag gaaccaacg taaacatccg tctttgcaac 900
 aacatcggt 1000
 taagaacggt aggatgccat ggcaccaca tagccttgca ttccaccagg 960
 cttgatcatg taaagagact tccgagaagg tttcttgccg ttagattcgt tgatgggccc 1020
 tgcagcagtg gcgccgctg atgtagccgt ttgggttctt ttcagcgtcg gaaataattc 1080
 ttcacagggc tgggcatgac caggcctgga tgcccaaca agatcgtctc ccttttcggt 1140
 aacctgaact ccaacgtcca gaaagccgtc tataacgtaa tagagccccg ggtggcgttc 1200
 acctgttcta ccagaaccgc tccttttgga aagtaaacga tctctatatc attaagtagg 1260
 tcttcccga gatagacaat tggatgatgt ccaccagcgc tcgtgacaga cattgacatc 1320
 attgactcgg tatcgccgtc gccagaccct tcgtaggcat caatgaatcc aaatgcattg 1380
 ttgctgaaga cggttttctg gcgacgggaa tcatatgaga ccagctttgg ggatagttcg 1440
 ccggagtgc tccctttgcg gagcgcat 1500
 tgtgagctgg gggttaacc tatgccttc
 atgatacaat ctaatatgga ttcacggaat aaagcatctt cgtcgactga gtctttccgt 1560
 tgaaggaag agcgacgcag aggggagcgt tctttctcag tcagcggaga atgaagtcta 1620
 ggggtagtag cgaactgatc atgtctaggc ccgaaacgag aaagttgaat ggtggaaagc 1680
 aagtcacctg ggctaactcc agccgtgtcg taaccatgaa aaggccttc tgggtttata 1740

agtgagtttg gtcgcttttg tagtggcatc tttgctttga gagcagcctc ttttctcaca 1800
 aaactcatcg accggcgtct tcggccggcg taggggttat gtagtgcaat tcccctggtc 1860
 acttcctcag agcctaaacg gtctttctct ttcagaaatt tgtctttcaa tcggtctaaa 1920
 gctgctccac ggatatcatt cggcaagtca taagttgtaa actttgtcat ctgtttctca 1980
 atgccgagga cctcattggg gagaccgagg taggagttag ccgttgcaaa tgtcactctt 2040
 tgaaggcgtg taaggatcac ctggactata tgggcggtag ctctggggta gagccgcgtc 2100
 aagcgtcgaa aggcacttgc tggtatgac gcgatgggtg tgtccaccat tgcccgcgca 2160
 acaatgtccg gatgaactga ttttctgcgg tttccacgca cccgttctga agctgtcgac 2220
 tggccgttgg ggtggtatga agaggcacgg ctctccccta gatgcagagg tggcaccggc 2280
 ggcagggggt cagcctcacc attaatggcg gaactatcaa cttcagaatc tctgggtagt 2340
 accatgggcg atccattcaa catttcacct ggactatcca aaaaagggtg ggggggttgc 2400
 cgagcgggac ttggctgaac gctggacatg cttgagctag agccctcact tgcccgtaat 2460
 cgaatatcct ccgtaaacag ggataggatt gaaaacaagg atgacatgga agcgcggttc 2520
 ttcacttccg tgagcagctg ataac 2545

<210> 2209
 <211> 2055
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2209

atttcgccag aacaaagggt ttatgactct ttgtgagaat aattttaata agaccattga 60
 cggtcctttg tgaatgtcaa gttgttcttg tcttctttgt ctccctgcag tatectcact 120
 cgcagaactt tgtgacggtg cattaggaca tggccagcga gcttagtctg tttgacaaat 180
 gagatgactg ggaaacctat agaaaagagc aactaaaggc atactacact gccagcccac 240
 agcacataac gacaataact caaccacaat ccatgattcg gacattgaat gaaacatata 300
 tacaaggcat ctctagccac ggtagcgcgt tttatgtgca gtaatcctag tctcctactc 360
 aagcttcttg ctaagcacia caccataaaa aatagtagcg ccaagggtca ccagggtgac 420
 caagctggac agtccatgta gacgacaaa cttcttggtt agagcaatca tctccttgga 480
 gtgaggtggg gggtcgtagc tcttcttgcc gtcgcggtt tcttcgccga gcatgtcagt 540

gatcctaacg acctagccag agcatttttt gtttatttgt gagacatgta cataccctga 600
tgctttctct cccgcacgt atcgacagta agcttgcgca agacacccaaa gtttaccaga 660
ccagtgatga atgccgccgc gagcgggagg aggacactga attggttctc tcgttccagg 720
agccccgaaa taccaagcgg ctggccgccg cgggaggcag taagtgcgac tacgacaggg 780
agcgcggtct ggagagcgaa gtaggtaggg aatatcttgg cttggagagc tgaaaactga 840
gggcgcggaa gggcgcggaa ggcaataatg ccggagacaa agctctataa ttgttcgtta 900
gagaccattg atatgtatgc gaaagagatt ggcatgtacc tggtagagct ggacaccgag 960
aaggagccg tagctgagtc gcagaagtca ataccgggct cctcaatgtt aggttgtcga 1020
gaacagacct taaaatgtgg aaagggcggg ggtcgagcat tttgactgct attattctag 1080
atagtggaat tgtgctccaa ggtgacggag tgctgatggg gcgatagttt aaaagctgga 1140
agtctaggcg atgcagatgc atggtgaatt gcgggacat ccgaggttcc gcggaatgat 1200
atatccacgc gtgggctgac agatgagcat tatttccacg taaagctact catgatagct 1260
atacaaacgc acaattacta tgtacacgca cctcatgatg tcatgtgcca acgtgttgag 1320
gctgttccca atcgggaaat atcgcgcgtc tgcctaggct tcgcgcgatc catagcctgc 1380
tgcttttggc tgactcttta tcaatcaatt cgccgcggac cccttgtatt atcttaatgt 1440
ttgcgtctca cacatatcat ggcggataag gaagcaacag tctatatcgt ggacgtggga 1500
aagtcctatg gcgagcggcg aaatggccga gacttaacgg accttgaatg ggctatgaag 1560
tatgtctggg actgcatcac gaataccgta agtagctcac gctatgggta taactttttc 1620
tgaccgctat aggtggctac tgggcgcaaa acggcaatgt tgggcgtgat tggcctcaag 1680
actgacggta agatatacct ccgtagaag aggttcttat actaaaacgg ttgacaggta 1740
ctgacaacga actgggagac gaatcccact tctctcatat ctcgggttta tcggagatta 1800
agcagtatgt agctttctag gtggatatgc ttgaatcaag ctgaccaccc gtccagggtt 1860
cttatgtctg atattagga actgggtgag cgaatcaaac caagtagcgt cgacaaaggt 1920
gacggtaagg aatcctatg cctaatttca acctatactg attatccagc gatatctgct 1980
ctcattttgg caattcaaat gataatcacc cattgtaaaa agcttaagtg gaagcggaag 2040
attgtcctta tcaact 2055

<210> 2210

<211> 2803
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2210

```

ctcaatacat aaagacatta agggagtttg ccagaaaggg ccggaatac cgcaagcagc 60
aagatgagat tgataaggaa aagggcgtgg ttgttttaga tggtttaaag ctttaattcc 120
tctgcgcatt aggtctgctc tttttaccat gctgtactat agacaaattc taggcgtaca 180
tatgttgtac cctgtattat aatccatatt agacgtgcta tgggtctgaca tgccctggcta 240
acattctaatt attattatgt ttcgtttctc ggcgcaattg tcctgtgctc tgagctagtc 300
ctcttctcta cctgtacag ttatgttagc caatgatact aaaattgatc aaatctgcct 360
atgatccgat tcatgttgac aatcgacact atatatacaa gtctgctgcc taatatatgt 420
acaccagcc tgcagatacc aaaatgctag taagtagtag gtaacaacta atatgtcaaa 480
caagatccca accagacagt caaatacacg aataaccccg ccccgtaaaa aaaaataaaa 540
tgccattaat atgcaaacgg aacctttgat gtgtgcgtgt ggttatccca acgctgttat 600
ctatatcatt atcgattaat cgtgctgaga catatgaagg accaacgtta tgaactgctg 660
gacagcttca agatgatctg tgtatggcca tagaaggcca gccagatcgc gcattcagga 720
acgaacgcaa catgtataac atacagacaa atatctttgt ctgggttttc agatgattca 780
ttgttagtct caagggtaga ttgaagacag aaggatgagg tcggaagcgt caaggcaagg 840
gagcgcagaa caacgctgtg cacagaataa acgagatcag tgagggtatc gagcgcaagg 900
ggcagaattc caagcatctg cttatgttaa tagcggacga aggaatccaa gcgagtgggtg 960
gcgtaaacia agctttaatt ggtataacga ggagtagttc cgagtgggtg gtagcagcaa 1020
tgatatttgg gtcaatcaat tggctcgttg gtcaattgca agaaccacat tcagagcgag 1080
gtgtctcagg acttgtgaat gagttaacgg agctctccaa ggtcaaaacg cgttgggtgac 1140
caatctaaag ttgggtgtct gtctccaacg catactgtgc ctttcatggc ctccattttc 1200
tttcgctctc tcgaagatag caagcctctc agcgtagagg aggctgcccc ataagtgtc 1260
cttgcgcttg cgctgttcc agtgcttggt gagacagtgc ttgaactccg ggtactgcgg 1320
aactgctgg ttttgtcac agcggatggc atcgtaggaa ccggaagtgc agaacgagaa 1380
ttcgaagctc cgtagtctgg aaagggtgt gaagcgatct ctggatttga tgataggtac 1440

```

ggcgatttct ggagttcatc gtccaggcca ttttctacat caaggctttg gaatatttcc 1500
 aggtgcggac ttgagtctgc gacactgatt tgcggggcag actgtggcgg catttgagat 1560
 ctttgttctt gtgtgtcatt tgtagatagc gccacatcga gcttgagctg ttctagcata 1620
 gtcccaagac ttgcagcggc tgcaggctgt ccatcgctct cggcgctcgt gccgacgaag 1680
 tcgggtgccgt ccttgctgag accattagcc agattgaaat tcctaaatag atacgacgc 1740
 agacgagaga cttctgcgtc ccattttgca ctcaaagact gcatgatagc ctgcacctga 1800
 tcatccatgg gtgggttga gctctcaaca gccgaaagcg agcttgagc agcacggata 1860
 tgaccatagg aacgtgagtg cttggccagt ttactgttga ctgacatatg cttggcggtg 1920
 atcgcagcat gtaatgaccg gcgtagagaa cttgtcgaag gctgagagtg cgtcaagtcc 1980
 cgtttgacat tggcgatttc ccggcgaaac ttgtcaagt accgggctct atcgcaatcc 2040
 atacaagaca agcttaacaa agatcgatta ttctgaagac cattcacaag tactgtgaac 2100
 gattgcagat tgatatcatt gttttcaca tagacctcaa gtagactggt attgctttcc 2160
 aggacagaag ccagagtatt agcgccttgt agcccaagtt tttggtgttc gatcctcaag 2220
 actttcaggg agctgttttt cttcagacca gttagagcta gattgaggcc aattccgaac 2280
 cgcgctacat ccagatgcgc attatccccg ctgatatcca ggtcctccaa agtatcattc 2340
 tcttcgaaca tcaattggag cgacttgat gtctccggtc cagcgctcga aggaagagat 2400
 gctttcgaga tatcaaggta ttttagagt cggttcttgc gcaacgcttc aaccaggtct 2460
 tgaaactgtt gctccttctt gaaatcgatc atcctcatcg ataaatgagt tggcgtttta 2520
 tcttgagcaa ttgcatcaca aaggtagcag cagccaagat ccagccggtt gtcattcaca 2580
 tggaggtgga ggtcgcggct gtgctgcaa gccgccagt agtgcaagaa aatagctaca 2640
 tcctgcccgg agaggccgca ctgatcgagt cggataacct gcagacattc ggaccgatcg 2700
 cttgcgaggt aggtggcaat agcatcaact gtctccctat tggctggtgt ttggttcata 2760
 gagagctctt cgagccgcca gttgaacagg acttgagccg gaa 2803

<210> 2211
 <211> 1414
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2211

acggccgcca gtgtgccgta tagcagccgc ggtgcgcgag gccgtgggga cgcagcgggt 60
 ggtgcatacc ggcgattcgc tgccgctccc tctaccgccg catccgatca cctatgctcc 120
 agcgcttcca gccctaattt ccttctgtga accggtctcg caaggcctcc tgctgccac 180
 caccaagatc gtactcattc aggcacgccc acacggcaat cgcgcccagc gaagcttgcg 240
 gccagcgtcc ggcttcctca aacaagtggc cgaggacgag gcagacgaca ctccaacga 300
 gcagttctac tcggctgctg aggataaacc ggttgatgac agcaccgaga tggagagcac 360
 atccaacgcg gaagaatccg aaactgaagg atccggcggg aacacgagcg atacgtcaga 420
 cgactcgctg gatgacatga tttcgcttag tgcacccgag ctaccgcagc cggccacagg 480
 tgtcatgtct gggatgactt ctgctacgcc tcgcgctcga cgcattggatg ggatccatac 540
 tcttgggtcg atggtgtcga acctcacttc ctccactctc cgtcctggcc ggcagggcgg 600
 cgggaagggtg ttcaaagcag agggcttgct gcgtagggtc ccgaacgaac tcctctaccc 660
 gaagccaagg gacgatgacg atgtggaggc cgtagtcttt gtggacatca gcacattagc 720
 caagatcggc tgcttttccg gggactgggt tcgcattgag gcgtccgaag agccgcaagc 780
 aaacattttc tcctctatta atctcggaag ctttaatgaa caatacggag agggcgattg 840
 gcgcgcagtc aagatttacg gtctgcctgg gcttccctct gccaaagctc gctattcgat 900
 caagcaatct ggtgataggc gtttaagctt tccaacagg cctggtgtgc gcatgacacc 960
 gtcagtcttt gtaccaccat tactgctcaa taatatggat aatccaagat acctccgtat 1020
 atctccaatg agtctcggtg gcatcggggc tccaagtcc ggtgttttgc atcagatgaa 1080
 aacggcagct cgcagcccc ctgtggcgaa ggaggtgacc ttgctaaagg tcagcacgcc 1140
 ggtttcaatg gatcgtgctg tgcaaccagc cctcttttcg gccctaaaac agtatttoga 1200
 gtcgaagcgg cgactcctaa aaagtggcga tctacttgga atcagcatcg atgaaaccct 1260
 cggtagggct gtttttgcgg ggactgggtc cgatggtcag gacgatgaca ttacaaccaa 1320
 actagggcct gggcttgaca ctaaccgagc tgggccgaag aaaatcggcg ttgcttggtt 1380
 ccgtgtcggc caagtcatc ctagcttgcc cgag 1414

<210> 2212
 <211> 3904
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2212

gagtacctca gagactgggc gggttgatgc gttggctttc ttaagaaagc tgcccagctt 60
gcgcaccttg ttgagagtgg tctttttcca gccggcatcc tgggcaatta cgtcgttgat 120
ctcctcgcg c aacggctcaa agtactcggg atgttggcag agatcgtaga agcagtgcgc 180
cgccgccatg gttgttgtgt ggatggaagc caggcttagg aggagctggc ggtgcgccag 240
cttgtcgggc tgcccgtcgt tctcgtttgc gccgtccatc atccactgga ggagatcggt 300
gggctttaca tagtccgggt tccgcttggc ctcttctgcg cggcgtggc gcaccatggg 360
actgatgatg cgcttcgcgg tccgcagggt cctgtggatt gccagtagc tggggaggag 420
gtgtcccaca atcgggtgca tccacttggg gaagcgccgc aacagcatga cggtcgcaaa 480
gacgttctcg gtgtagtgaa tagaggtctg gagccattcc tcattgcagc atgcggcgga 540
cgccgaagaa cacgcgtgcg gagatgcgcg ccacgatgcg aagaacgatg tggaacacat 600
tgacgtctcg ccagtcgtct aggttcgcgg ggatctcctg gtccatggcg aaggaggagct 660
ccgaactcga tgacctcgat gaaggagccg agattagggg tcagcttggg ctgcagcatg 720
cgcgtatgca ggtcgtctc caggaggatc agcgtggtcg agtactttcc caggagattc 780
ttgatatgcg cgcggatggc gctgatcttc tcgtcaggca gggatcgagc ttcctcgaca 840
tacttgttgg ggataaccag gatgtctgag tcgttgcggg cgaccttgaa catggcgctt 900
ttgtactgtc aagcgcatta gacagagtcc tgggggaacg gtagcattgc gtaccttggc 960
gtatccttca ttgacctgcg ccagagcgcc ctgggagaaa cgtagtccta ccaaccattt 1020
cggctcatal cagaatcgga agcccacgaa aggggccttg aaggatttgg aatatgcgac 1080
cagggtttgg agcaggtaga ccacgctaag aacgcogagg atctccagat agagctgcga 1140
gcgatcaatg gatgatggtg aatcggaagg gatgagggtc ccagagtgcc aggtatagtt 1200
gtccatatct gcagaactta gcgtttctcc aagtttgttt tagctgtatc aacaatgcac 1260
atagtttagt cgacatgttg acgggaatac tgggctaaat atgcccacac tcgacgaccc 1320
tatacaagaa ttcctactat acactcctac ctgtaatcaa tcctacgact ccctccgacg 1380
gatggtgtcg gcgggtcggc aagggatcat cccttgaatc cttcaagata atcctcaatc 1440
cacaggcagt aaccattcat agtagtgtca ctgactagac caaaagaaaa cgagatgtca 1500
accggcaaac gctcgactta ccaataaaga tgcaggacct tctgtcctgt aactattaac 1560

ccattattat ataactctgt ttttttttgc aaagggacga tcacaccgct tagacaatcc 1620
acagctatcc atagaaactg agctacctac agataatgag gatttttttt gaagctatcg 1680
aaaagctata tattgtttat atagatcgta gttaggagat caagactctc aatacagtca 1740
ttcgttgcaa tgtagtcac atgaccagac tcgacaggcg gggcatattg ctttcttgac 1800
cgctgccct tgggtctga atagcttagt cagtatttag taagctatat aggcggccaa 1860
ggcggccatg tcggccatcc aataattacg aggacttcgt ctctatcctt atcgacgcta 1920
gtaataactc caccgcccc aaggagtcgc ctgggatagg tggccccgcc gacatcagcc 1980
tctctaccgt aactgtccg cctcttcctt tcgtctattc ttctcctggt agattacatt 2040
gacgaccac cacaatggcc acatctcgtt acgatcatca tgatggaatc cagactcagg 2100
agctaatacca gtacatagcg aagcttgggg tctcttccaa gacgagaata ccgtcagtat 2160
atctacagga acaggccttg ggaggaagac gatcagcccc gatcagagcg cggcatcgag 2220
cacaacgata ccgaaaacag aactcatctt agagctccag cggcttcgac aagaattgcg 2280
agaactacag tcggccaggt gagtattccc atataccag ttcaagcgct tttagcatgg 2340
cgctgattcc actcttccaa ccattccagc caaaattccc aaccaccga ccaaccagaa 2400
caaccaggca atggtctccc ctctcgagaa acagcatccg aaaagtctga aacattccgg 2460
tgctgggaat cctgttgcaa tggccgatta tttccaatc gaagtaacct gacgcgacac 2520
cagcgggagc gaagggggga atcggcgaag ctgcggtggt cttctgtga tgcggttttc 2580
ttacgcagct ccgcgcgga tgccacagag gcggcccggc gatgtcgtcg gtgaatggta 2640
acgggaaatt gcatagatca atatccgaat agagaacaa atcgtctaga gcatcagcta 2700
gcattggtca tgcacgagct gtcccctctt gcgttactcc gttgacgtca gagcgtcaat 2760
agatgaacaa gttctatctc tgggactcat catggccata taatgagcta gcatttctgc 2820
gtgcatatgc atttatcatt ggttctgccg agtaaaagtc tagacatgat ttatcaatag 2880
atagcaacac accgacactc aatgctctga cgagctgggt actgatcttg atcaggcaaa 2940
cagaacgcac catgtgccgt gccgatgatc gcctttccat tgcggaagcc agatgaggag 3000
aaaaccaacg cttcgggtggg ctctggtcc ccgatatacc accagctatg ctttccatca 3060
ccgctcagcc catccgtcgg gccctcccca gccgccattc gaccatcata cttaatgaca 3120
aagttggacg aatgcagccc gttgtaatac ttccgggtga ttagaagcag gtccctcgggc 3180

ggcatctcgg ccgcatcagc caccatcagg gggtcacgct gcacccgct caacgggagc 3240
 caaacgttga tcacctggaa actgccgttg cggacatcgt ccgcgagatc gggaaacata 3300
 aactgcacga tgctgagcgc gccctggggg gtctgggtcaa tgtgtacgcg atacgcgggc 3360
 ccctcgacgc cctggtagcg gtctttgatc tgctcgccga actcgttgcc ggtgcgggtg 3420
 cgcactgcat ggtggaaggc aagcaccgc ttggccccgg tgctgcagta ttcattgcaga 3480
 ttagactagc gcgtcatgga ggcgaacgag cacacgcaca tatcttggac cagttttctca 3540
 atctctcggg agtagacctc ttgatctggt gtctcgtcgg tggcatccgt aagcgtggag 3600
 tggatcgtcg cgtactggaa gccgttgcca tccagcgaat actcctcctt gtaagggcgc 3660
 agatcgcgga ttcgcatttt gtgggaaatc atgtcctttt ggcccagcat gacggccatg 3720
 tcgttgggtg caggcggaga cccatcgctg ttgggcacgt agtaattcac cactgcgttg 3780
 acgccccggg gagacgttgc atcaaccatg gttcagacag ttagacaggg taccgactgt 3840
 tctgctgggc gcagccatct tgtccagcat ggtgatccct ttagtagggg taattgcgcg 3900
 cgat 3904

<210> 2213
 <211> 2347
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2213
 agagataaaa gagggtaaga agggagcaaa gatacaatta taaaaagggt gtttaaattg 60
 agaaaaaacc ggggtgtgaaa aggagctttt taaaaggggt aaacaaccaa ggctcgtttg 120
 aatcaaatag gggccgctaa ccgtaagggg gttgggtgcc cccccctgt gaggaaaagt 180
 ttgtaaaaaa agccaaaagg ctttttcaga aaaatttagg tcgggagctg aattttctgtg 240
 ccagttctgt tatgctggct ttgtttaagc tcaatttcca cagttgtgga aactggggta 300
 gtggaaaacc tccggtctct agataatatg cagtgaaggt gcaggaaagt ctatcttttc 360
 agggcaaaac tcgtttcaaa gaactggaga tctggcgag cacgggctag gcaaatattg 420
 tgaagggtgag ccgcttgtct cctgctgggc gaagtgggtg gagtggttgt gctgagaaag 480
 actactgtgc agattccaac atcaatgtca tagtcctcgc cttcctgatg actatcaatg 540
 gacccggcgg tgcaccggaa atcgacttct caatatcatc tcaagggtgc acgacgttca 600

acgggacgaa cttgaaaaac tgtcctgaga tcgggtatag ctttatcccc aatcccattt 660
gatacaaggc ggctaacctc cccagcgagg acataacgaa atgtcaagcc gccggcaaga 720
caatcctcct ctccatcggc ggcgcaacct atagtgaggg cgggttcgac tctgcaaccg 780
cggccaacgc agggggcggac cttctctggg cgacgttcgg cccagaccag aatgatacga 840
aaattcatcg gcccttcgga agtgccgtca tcgacggggt cgattttgac tttgaagctg 900
cagtcacaaa cactggggtg ttcgcaacga gactgcgcgc cctcggggac gccgacactt 960
cgaagaaata ctatctaacc gcggcaccgc aatgtcccta cctgatgct gcaggcaaag 1020
acattctgaa cacaacagc tctgccgcga ttgacgcggt tttgtacaa ttctataaca 1080
actactgcgg cgtaaagcc tacactcccg ctcgaaacac gctgctggc gcccgatcca 1140
aagccggata caagcttagg gtcgagaag atcggtagcg ccgtccgcat cgcaactcag 1200
gctcgggtaa ccaagctgcg gcgagtaact ttaacttcga cgtgtgggac aattgggctc 1260
ttacgcagag caagaacaaa aacgtgcgcg tgttcctggg cgtgccggct aatacgggcg 1320
cagcaagcac ggggtacctg cccattgcga gtctggagcc ggtaattagc tacagtaagg 1380
ggtttgagag tttcggaggg gtcctgatgt gggatgtttc gcaggcgtat ggaaatccgg 1440
ggtttctaga cggggttgc aaagcgctag gaaagggcct gaccgcgcat gtcctgtgc 1500
aggaatctcc gcagcagcaa cagcagcccg caattgatga agcgcaacca ccttcggcac 1560
agcaggccca ggatgccaat gagtcagtgg atacaagtcc cctacagcag caacagcaga 1620
acgcaggtgg cgaagggcaa actccaacac agctgggcca ggatgtcaac gagtcattgg 1680
aaacaagtcc tccgtgcag caacagcagg aagcaggtga cgaagggcaa gctccagcac 1740
agcaaagtca agttgcctat gagtcagtgg atgcaagtcc cccgctgcaa agtccccgc 1800
tgcagcaaca gcagaacgca gatgacgagg ggcaaacttc agcacagcaa agtcaggggtg 1860
gagatgcgcc tgtaactacg agtccccgc tgcaacaaga aggagcaata ccggccgctc 1920
tgcaggagac gacagaggcg ggagagcagc agctgaacca agatcaggcg gacgatcagg 1980
atcgccctt gaaccttctt ccttcgattt tcgaccgga cgacgatctg gactggattc 2040
agatctgatc tacacatcat tcttctttt cttctcttt ttttttttcc cctttctcat 2100
gtctactttt ctgaatctag tcatactata atgatgaatg gtatatccct tttgtggata 2160
tacaatgcaa agagcctgag agatgtttac cctgggttcta cggtagcttt cattgaccgg 2220

atttgcggga atgcccttag ctgagagtca ggaactcagc tcccaggttc cttctttccc 2280
 tcctgatctt cccatttggt ataaggccct gcaatccgca tgaactattg ggccgatcac 2340
 acatgat 2347

<210> 2214
 <211> 2397
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2214

ccccccccc cccttggaat ttgcaattcc tgtgtctctca agatcggtaa cacaaacctt 60
 gtggatcaga gcgaattcca tgcccatgga gtccgcaatc gcagttgccc gcttggcgcc 120
 accagcgtct gggctcacia caacggcttc tttgtagttg gcgatgttgc gcataatata 180
 gttcttgaga aggggtcggc cgtagagggt atcaacagga atatcaaaga agccttggtgta 240
 ttggggatca tgcagggtcca tcgtgataac gtgatccgcg ccagcacaag tgagcaagtc 300
 agccacgaga gtacctgctt gagccacca ctgtttatat ccaggacgcg gttcaaattt 360
 attaatcttg tcttggctgt catctaagag gccgttcgga agcgtggact tgctgctgtc 420
 cgacttcaaa gattccatag tgtcactgcg agaaagcccg ttgggtaggc gtttcttgac 480
 agggctacca gaagactcct ccagctgagc ctttgccaga ctcttttgta ggttatcaat 540
 actgactcca tttatcgggt ttccgacctc gagcttcccg ggatgggggg ttgtaggggt 600
 gctctcgaag gtatacccggt tgggaagcgcc ctttccttca agcgatgatt tgactagagg 660
 agtccccgat ttgttgtaag gaatatcact ctggcgagag tatggaaaga gcgggagaaac 720
 agcgggtgact cttcgagcag acgcagtttt gcatgccgaa atagtgataa gcaactccaa 780
 aagatgggtcg ttcaccttcc caccaccaga ctgaagaatg tagacatcct ttccacgtac 840
 ggattctttg atttcaacct ttgtctcacc gacagaaaac tttgacagca acacgtcggc 900
 tggaggaatc ccgagtatat cgcaaactgt ctgagtcagt tgaggatggg aagtgcccc 960
 aatgacgacg atatttcgaa ccatagttgc cagaatgtcg gtatgagaag aatgtcctag 1020
 aaagtacgca agtggccctg ggggtagccg attcggaggc ggagaaaacc tgggaaaagc 1080
 cgcagaagcg ggtgttctgg aggggcggta tcgatcggga acgttagctc ggtagatgcg 1140
 aggcgagcaa aatgtggaac ggaaagtcct agagtaagga gagccagaaa ctagatcatg 1200

gcgggggagtc ttgaacacgc ttcaagggca aggacgaaag agacatggaa tgagatgtag 1260
 tggatcaaga tgtcgtgtga gcccgtaatg gaagaaaaga aaaaaagcct ttcttagtgg 1320
 accttgcaga cggggttttc tgccgttgac gcctcagggt tcagaccgcc ccgatcagga 1380
 taagcgggtat catggcccct cgtcttcaaa ggaccccgca ggaatgacga aagtttgagc 1440
 aatcgtcgtc cacggattag gaaagcacac cacaacgtaa aggaacagag gacaacacca 1500
 aacaaaacat caacgtccag catgcgggta gccatcatct ctcagactca acagtagctg 1560
 ttttgctgt tacgaaaggg ctaagaagct gcggattaca ccaaggacag tctcaattga 1620
 ccaataagta cttgaacgtg aaaaaagact cgaaaagaga caaatgaaac aggaatagaa 1680
 gagaaatcca tggattgtt caagaaacag gtccaagtcc gggtcagggt ccggtttcca 1740
 gtgtttgggt aacaaccaa aaaaagttt tgcattatgg aggattcttc caatccattg 1800
 gtatagtatc aggccagctc cagtaatcct gtaattcaag gtcagtaagg aagcagcttc 1860
 gcggaagccc agagcaacgt cccggtagac agacatacca gggatgagtt cagggtgaaag 1920
 gctcacagta aagttatgct ctgtttatct ggatctcaa tatattgaga accccacatt 1980
 gttccaaaac agccgaccc ctagcactgt cgaagttggg gatttcaacg attgaggaca 2040
 acgtgatgca cattattgtt agggatttcc catcatacac gatcctacag aacgtcagta 2100
 tagaacaccg gattcacaca aaggtttgca tttttacccc gtgaagattt ttataggcga 2160
 cctgaattcg cgataagttc ccaatagtgg ccactcctat ccttgtagac aaggcgaaca 2220
 gcaagaaaca aatcttctcg cgttctagca gataaaaatt cctctccagc atttttgatc 2280
 agatcagtga ctcagccttg aagacaagtg ccctcaccat ggcacagggt tacgtgaacc 2340
 tgctagcggg ctgcgagtct tgggttctaa tatgtgatac agccgagctg aagccgt 2397

<210> 2215
 <211> 1884
 <212> DNA
 <213> Aspergillus nidulans

<400> 2215

aagtagaaga aggtagtctg caaatgttga cattttacga ttcgttttagc ctgcaatctg 60
 aattgatgca gctcatgggtg tcaccttctc caggaatttc ggccttcccg gacgctgatg 120
 gaaacctcct atcctggact gctactatta ccggcccttc agaaacacca tacgagggtc 180

tgactttcaa gctctccttc tcgttcccca acaactaccc atactcgcca cctaccgtgc 240
 tcttcaagac cccaatctac caccogaatg tcgacttctc cggccgcatt tgcctggata 300
 tccttcgaga caagtggagt gccgtgtata atgtacagaa cgttctgctt agcttgcaga 360
 gtctccttgg agagcccaac aagtaaggct acatcctgaa tttatttttt gtgtttatac 420
 taacgggtcaa ttagcgcgag ccctctgaat gccaggctg ctgaactctg ggacaccaac 480
 caggaggagt ataagcgcca cgtactggcc aggactgcg acattgaaga cattgaatag 540
 agtacctctc tctagaattc ctactgggcg tttggcgaa ctggttgta ttcttttga 600
 agcattgcat tgaaccgggg tctgggttgc acttttggac tcatttttcg tgggtgggaat 660
 ctgttcactc gcgcgggact tggatatgct ttctcgtagg agaaggacag catcactgaa 720
 cttggggatc cgttgttggc aaatctggag aaacggagtt ttcggaagca ggacgtttcc 780
 ctgcacagca ctgttcttgc cgtcattcgg ttgtccttct gcattatatt tcttcttatt 840
 ctgagtctat aatactcagc aggtattttt atatgtacac caatcagagg tgttgtgccg 900
 tctcattcct atcgagacca gtatgccatc acgtgacct agtctagact tgcagatcgc 960
 ggggaagtaa taaaacggcg ttgacgtcc tgccaacatg aggatcatgc gccgtgtctt 1020
 gcgtcctgca gtaagctagg tacgaagttg tgctgccctc aatgggtggct ctcgaatact 1080
 ctgcctcatg gacaagcttc ctgttgaaat cctcacgaaa atcatcgact gtaagagctg 1140
 tcgtccccgc ctgctgaact ttttacccca cacagactca attcctaacg catttgggcc 1200
 tttttagacc tcactccact tgagcaggta cggcttcaat ctgtctcaaa gcgattcttc 1260
 gccttagccc gcgacaacaa cttatggcgg ctccattgct acgagaacac atgggctgct 1320
 ctattagccg ctcgcccag tgtcgaaggc tccgatagcc tcgccacgga ttccactgca 1380
 tctctcagct ccctaggaca accatcgctt cgctccctaa tccagcctca agctctgccg 1440
 aacaacaacg atccggatac ccaaggccgg acgccgacct tcggcgaaag agcaagggct 1500
 gcagccgctt gggaccctgc cgcagaggga gaagatgtcg attggtactc ggaatatatt 1560
 gctcgtaatg gaccaatatc actcagctgg ctccagcagc cgttcacaag gacacagagt 1620
 ggtggaaaat cttacatcga ggtgaaaggg atgggacttt tgcaggactg gagcttggct 1680
 aggcaaaata aagtgatatc acctttgagt gacggcagtg tttgtgtttg ggatctcaac 1740
 cactctcatg cgatcggttc tcgggtcaca aagggcagca tacttgggac gagcgcacca 1800

ggatattttga cggttgacat gtctcaaaaa aaagagaacc cgcggcgaaa tcagcactag 1860
 agttcatcaa ctgggcgaat gtgt 1884

<210> 2216
 <211> 5677
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2216

cctcgaccgc gaaagtctgc taaaccggtc cgtccgcaca cggttctact tgggcgagcc 60
 gacgccgctc ctcgagaccg atgatgcagg cggcatacaag cataagctcc tcgaagcgcc 120
 gcaggttgat aagctgttct ttatcagtc accaccctcc ccgcccgcacg gctgggtgat 180
 gcgccaggag gaccccccaa acaaggaggt ccatgctagt gatcttgccg aggcgctggc 240
 aaaattgaaa acgcagacgg agggttctac ctacgtata tctaccgtac cggcttctca 300
 gcagcagacg gatccggata caccgatgtc tctttcgctc gacaagagga cggggagctg 360
 gccgttggtg cagcagcgaa gtaggagtag cacgcttata tataaccggg aggagcacgg 420
 cggcagcccc aacctccccg ctgtcatggt cgaagatacg agcgcgcacc cggatgatat 480
 ggacgtggag atgagcccga ttgatatgcc tgtgaagcaa acgccgccgt tcaagactgc 540
 tcgaccgcct gttgagttga tggtttgatt acttacgacc gggttcttgc ttcatgtctg 600
 gtccactgca attgcattct aagcgtttga cttggagttg gctgcttgtt gatgtctgta 660
 ttgtttttta ttttcgacta ttgtgattgc atcaggtttc tctctttttc tcaaacattc 720
 attgcgagggc gttcgggtga tagtttatcg gcaatctatt catggcgatg gcaataatgt 780
 gtgcatttac ggttctaaaa accagtacta ggcatacgat gttacttaa atataattct 840
 ttagtatctg caagtctcat atttccagt agtcttctat atatcataag tagacttgat 900
 agtctgacca tacatggaag ttgattcaa tcaaacaaca ccaactgact atccttcata 960
 actgtaggtc ccagtgttgc tgccagctcc gctacaattc ctttgattga ctggcgctcg 1020
 tctattggca ttttctccca tccgaccaag tcctattcgt ccattgtcag cccacacaca 1080
 tacatacaca ggaattacca gacaccatga cgttgttata acgagatgag aaggggtgga 1140
 aaggcgccaa tactcacgct catatgcaca aatgacccat gaatgagtaa cggccagctc 1200
 cccagggtcca acttcttgac ttcgtccact gttaagacac ccggcatgtg cagcgcgaaa 1260

agggagactt cctcatcggt gatttctgct tcggcttcag cattatcagc cgcgtttgct 1320
 tccgtaccgg aggttgcggt cgtggcgga tctcgcgaga gggaaacgta gggtcgtgtg 1380
 ttgagctttg cggttagttc gccgtctaaa ggatcccagg tgtaggattc ggggtctgct 1440
 atcgttaaact tttggctggc cttgagtgat tttcgttggg ggcgcaccta gaatgtattg 1500
 gggccggaaa ttgcccttgt agcgcatctt ctggcaggag tgaatgtagt agcctggtag 1560
 gattgtgtta gcgagcgggt tctggaactg atgggttggg tactaacca tgtagtaata 1620
 ttggtagcct tgttcgactg cgaaggctat ctctctcacc gcactcagtt ttccaatttc 1680
 ccactgctcg taatcagggt cgtagcttcg gctgttagtt acgttttctt attcgtctcc 1740
 aatgctgtga cgcttacaag atgtaaacag acgtgacgcc attgggcacc agatccaaca 1800
 cggcgacagc tatgagcttc ccatcgaggc ggtagcactg gtgccaggag cctattctgc 1860
 gctgtacacc tcgcccatta ggctcactcc gcttttagtcc cgaacagagg aagcgcttga 1920
 agtctttcgt ttgccatttg gaaacgtctt ccttatggac cttcgttttg tatttgcgga 1980
 aaagatcaaa cctaaaagat gtaagtatat agttgagggg catggtgcgc cttacatact 2040
 tcgcttggga gactgtgtcg cctctaaagt ttacctgaa tcgatgcgcc ggctccagtg 2100
 atctcttcgt ctttgggtca gtcggccgct tgacattgct atactcaacc gcattggacag 2160
 catcgtgtag atcaaagttg catttccggt gtttcttttc cctggcaaat ttgtgaactc 2220
 agaatccaag tcgcgacaac cggttagaat gcttactccc ttgttttttg gcagagatac 2280
 gcagctctac ggatatactc gggcccaaga acgaacttgt tccaacgatt gatcgccctt 2340
 cgttgatctc gtcttggttt gtaggccgaa gcctcgagcc tggactaatt agcgatgccg 2400
 gatcaagctg gctgcgcaac cagacacgta cctcatggta taatgaggac agcatgaccg 2460
 ctgcaggttc tgcttgtaat acagcgttcc ggacctgcac tatggtcaga agactgcata 2520
 ttactacgg ggtgctgctt gaccttctcc atccccggtt gacgagttcc tcatagtga 2580
 ctggacgcac cgagacggag ctacgtagt atgaagcacc tacgagcgtt tgcgatttag 2640
 caagaaacgc acggctgcgg ggtggggcta cggcgactga ctgccattat ctgatttgca 2700
 atatccgcac gagttgcgtt ggtaacctga gatgacatat tggtttagacc gatgcaagcg 2760
 acagcgacga tcagaaagga atcatcttct tagtcacgac gagtagtcaa tgatttgacg 2820
 gaacgcacag gattggctag gggatgtggc gatgggaatg aacgcggaaa tcagcagaat 2880

gaacggccgg gatgatcagg catcgctcctt gcgaggacga tgccagaatg gatggagggg 2940
 caggctcata catcaagagg ggcaggatga agctgaggcc gatagagaga ccagcgaaag 3000
 gaaaggcaca tgaaccaatg gccattgcac ggggagaggc agactgttgt gactggctac 3060
 tcaccgaggg gtccgaacag cgacaactgc ctcgctcggt cggcgtcaat cggttccatg 3120
 gtgtggtggt tgcgaggctg tgagacggac ggagatgcag actcgggatt ggagagggat 3180
 ggaattattg tcagcgctca aggcgggaag aaataaaagc ggatgacgat gatatccggt 3240
 atgacgagga tgattaagat gatggatgga gacgagacag aagtggacgt cggcggctga 3300
 gatggcagca gtgcagtgag ttcttcaagg ttccggttct cagcttaagc aattgaactt 3360
 gggaaactacg gaacgtttct tattaaggcg acgagctcct acctagagat gactgatggt 3420
 agctcactag atagtcgcgc ctgggaatct tctcacatat cctctaaaca tgactgatgc 3480
 ttctagaaga cacttggtta gctcccttgt cattatatgc acgctcgctg attccgtcca 3540
 atctgccccg gctgtcgata ttcttcggt gccagtaaag tccacggcag cattgacgtg 3600
 cagcagtata cggggcagtg actagcctca aactgacact gcttgcttat ccagctgtta 3660
 gtaccgacta gtttgactac tgtgtccgtt aggttatggt aggatgtact ccgtaccata 3720
 ctgttcgccc tgatacggaa acggtttgtg acgataccat ccgtctcagc ccgttttacc 3780
 agcactggac caatttctaa tatcggtgc cagtccttc tccagcgttt cgatcggtgg 3840
 ctgtatcatc cctgatcttg tgcgcgttga cctgatggt aatcattgag ctctgacgtc 3900
 ttcaggggag atctgttgat ccagccgatc gcctataaaa gtccctcgaca gcgagctaata 3960
 ctattctcgt ccagtttgcc ctcgatacga cgggattcgt tctcagggt ggttactcaa 4020
 gtaaaaatcc acacttctgg cacgttggca cattggcaca ttagcagatt aggacattta 4080
 ctgcggacct cgtttggttc cacagggagc gagctccgaa tgaattccgc acacaaataa 4140
 tgaaacgtgg atgccggtta cccaggaca ccgctcgagt ttattattg gcattgataa 4200
 ccacggcgaa ttcgcaccag atttgcccat ttcttgtcc gagcatatac cgacagtttt 4260
 cgttttcgat acctcgtag ctggacgggc cgcataatccc ctcgtaagct gaccaaggct 4320
 cagcgcttta acgttgggtg cattgtccat gcctgtagt ttctacgac ttgggaggtt 4380
 acagcaagga cccttatgcc gtcgatgcc agtcacctgc ccgccgtccg taacgacggt 4440
 gtccacgcgt ttttcatcat tgaccgtaga cgcaggagca cagctcggag agcgtagcgg 4500

gcctagcttt agcgagtcac gttccatgct gtcaggatc aaaccttatt ttctgaagtt 4560
ggcggagaag ctgtccgga gtgaggaagc tgtattcttc tctttttctg aaatggaagg 4620
agatcctttc cgaagtatat tattattggt attattgggc caagcgcgag cgtaccctgc 4680
atgccatctc catctgagca ttgagcagaa ccgattttcg gatcggctcc cctcgggtgc 4740
atcaattata gtcgatcgac gcggggcaga gggcaaacc aagagcacac gatattattc 4800
aggaagagcg cattccgagt ccggaccga ccgtcgcgt tatttcgcga gaggaggggg 4860
cgcaaattaa gagcactgta cacagtacgt tggacgtgac ccgtggcca tctgccccat 4920
acttcaaaca aaccatgcag gtgatgcttg gggcatcctg cagatgttac gggaaaacat 4980
gtccacgacg aagaggataa atgaaccatg gggtcgatca gagcgtcgggt attgctcaga 5040
ccatgctggt gctagttgca gagggttgg actagggaaa tcaaggatgc gcataagatc 5100
agttagtggg cccagagtcc cagagggtt ggggacgctc cagcggcgat tgggtcgcgg 5160
cgcgacaacg cagcaaaaga tctgtaaacg tgcggatcca agatcccagt tggctttatc 5220
cgcctttgcy tactgagtac gaagtagatt gtacctaata gaccgagtga aggactgatg 5280
tgttgcggt aatggccgtg gaagtgaatg ccataatgtt cattatgctg cgcgcggtac 5340
tgcggaagc acgtgacacc actgggataa aagagcaaac cggccggaaa cggcgggtata 5400
tgatgtggac tcatggttta agcatgaatg aaaaacacga agctaggatg agggcctttt 5460
cgttgacagc acaatagatc atgagtggaa aatatagtag aggtcaatgt caagccggag 5520
tactgtgtaa caatgtgacg gtaatacgca taacaccac acgcagagac gcccgcgccg 5580
agagaccttt ttacggttg agtctctgct gccgatagc gccgcgccc attatccatc 5640
ccaagctgtc tccgtcctcg cctccccctc gttcctg 5677

<210> 2217
<211> 2082
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 2217

aaaaacgggc gcgaggctta ggaggacggg tggcagcttt acgtggtgaa agagccatat 60
ccaaggaaaa ggacgtggat ctaaagcttg ttcccgatgt caaagatata ctgccagcga 120
taaagcgccg cattatggga aatgttcacg tagttcattc cggattatgg aaattgaatg 180

aggacatcgc caatatcgag ttagcccagc acgcaaagac cttcggcgtc gtattcgcgg 240
 accgaattac ccacaaaaca acccaccttc tttcagctgg taagcgcacc gcgaagtttc 300
 aagaagcaat gcaacgcca aaaatcaaaa ttgtacggaa agaatggctt gtagatagcc 360
 tacttcagtg gaaacacctg gatgaagggc cgtatctcgt tccaaccac cccaacgagc 420
 agcgcagttc caaggaagta gccgaaagct cctggctttc atcctcagac gaagcttcag 480
 gcgactcatt cactgatact gaagacgctt ccgagctcaa cgacgagatc ctgaagtctg 540
 cagggatcaa tgatcttggc ttcgaccagg acgaggaggc ggctgtgcac gaggaactca 600
 aagagtccct aggcagtatt tatagagcga aagcgacagc gaatactcct gaatggaacg 660
 aattgaactc ctttcactt ccaaccaga taagaagcgc aagcgcgaag acggagaccg 720
 ataacgacaa tgacgagaac aattcggata ccagggatc tggggaggtc gcgggctccc 780
 gtctttctca gcgcatcaag cggtcctacg agcgcagcac cgggctgaaa gaagtcgcca 840
 gcgctacttc aggcgaaaat ggctcaaata ctgacactgg taccgcgact ggcaccgata 900
 ccgacactgc ggaagccgat gacgtccctg acgtcgcatt ccctgagaca gaagaagagg 960
 gtgctgcac tcgaaacca gattcaagtt accctcaaga tcctgccgaa gaggaagatg 1020
 aactcgagcg cgagatgctg gcggctttcg aggaaggagg gtatgactcc aacgccgaaa 1080
 aggccattgg cgaggataaa ggctgaccgc cggcttgggt gtttggcact ggtgctactg 1140
 tttgtacatt ttgtgacgct ttacagccag atcgacatat ggttgtgttc agagttgatt 1200
 gggcgatcgt ttaagaatcg catagcgagg cgttggttga tggcttcgac ttccgattcg 1260
 aggcactttt tcttctagct tttgtttatt atatcttacc aaattgtgat acatatagct 1320
 ggaacttggc gagtgagtgg ctactcatct ctgtactgct gactaggtgg gctctgtact 1380
 tgaacgaggt gagatcgga ataggtatgg atttgatata ttgagttaa tttggttttg 1440
 ttctctgatt gaattttacg taagggaata tgataccttg aatcacctgt tgattatccg 1500
 gaccgacctg aatgctcagg ctccgaagct aactatgtag aaataacgct ttaagagtac 1560
 gccagatatg catcgtcaaa catgaaagta agatagcaag cagaaacgat cgagtagaat 1620
 ggtcaggagg taccctatat cctcatacat gattcacatc acatcataag tccaccgaat 1680
 attgcccagc tgggtgaaat cgaaaagcag tccaatgtgc tctctgctgg gagaggtagg 1740
 aggagccgag tcatggttag ctcaaatcaa gctcgaaata gtctgcat catggatggg 1800

ggacatcgcg atgcaccttc caggccataa caatcatcca caaaaagaac accgtattga 1860
 tcagctcgaa cggaacgcc gctcgccagc agttgccagt attcacagtc agccttgttt 1920
 agtgactcca atccatcaac agggacatca catacaaata ttgctttgcg caatccaagc 1980
 cattgtgtcc cggccatccc ctccaactct attatcatat acaaagataa gacaattatg 2040
 gttgatgtat gcgacaacgc cgtacatctg gnacttgggc tt 2082

<210> 2218
 <211> 3074
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2218

cgactgcccc gcaaaagcca gcaagccgat tccaaactca atcctagcac cacaagggtc 60
 cgatggatcg aactccagcc tgtcatatca cgatcacgtc ttcgttgatg tcttctttgc 120
 cacgcccata accttgctat cctgaatttg tggacagggg catacatatg acggcaaacg 180
 cagtgtctag tcctcttccg aggtcgccat cgtaattcc ctccaacaat gccgcgatgt 240
 ttgccccctg gtcagattcg atgcacggca gccgcgcgga ggataaatga gacgaaatga 300
 cgacgggaag acccctgtct gtttagcctc aatagggtga tgataatgac agaggtgggtg 360
 gttgtgggtg ttgtgggtgt tgtgggtggag gggtagcata aacgtgcttg caggctgcaa 420
 aagaactggc gacccgcaat cacatgctgg ctgccagcag caccaacacc agctctgcgc 480
 atacgataat aagatgcgca ccctgatctc gtaagatata aatcactgtt gtcaatggca 540
 gcagctatta gctatttatc acccgaaaac cctctttttt gactttattc gatctgtcct 600
 cacctgtggt tcctctcttg cctaccttct accggatccg tcctcccacc accagactca 660
 ctcttaggta gcttctttcc ttccccctcc cattacctga ggttctgtct ctactcacca 720
 gttccgttca gggagcgcca tttctcgacc cctcctcaaa cgctcttaca atccttatat 780
 cgcacggctg ctggctttgc tgagaaactt atgcctcatt ttgaaaacgg cgcaatgggt 840
 gaaaatgcgg tcaacggcga gggggctcag tcccaattct tggaggtaat tttcgtcggc 900
 aaccaagtcc tattgacatg ctgtgcaaca tacacttaca cgctggctgc gtagcacttg 960
 acctcctacc cgttgtctc agactcaatc tccttctaca aaggcaacaa atacggcgcc 1020
 aagtcattgg agtttctga ccaaggctac ggctttgcc aaccctacct ctcatacctg 1080

tcgaagccat acggatacgt tgcgccatac gtcactcgtg cagattctct tgggtgataag 1140
 ggcttgacaga aggtcgacgc aaccttcctt atcatcaagg aagacactaa gacgctcaaa 1200
 aacacaatct acgataccgc ttactttcca ctacgactat ttggggatgc taagagccat 1260
 gtcttcagta cctatggcga cgaatataag aagtgcggcg gtgatggagt cgttgcgagc 1320
 ggcaaggcta ttatcaccac cagcctcgtc ctctctcagg aatcgctggc atttatcagc 1380
 tccttgctgc agaaaaagaa ggcccaggtc aaggacttag taaacgagca ggcgaggag 1440
 taaaacatat accattcgtc ttgtttgtgt ttgctaataa ttgggtcggg agttgtgttt 1500
 tagactttag tgtctagcgt tcatcattct ctgttatttt ttatcgggct tgacgcattc 1560
 attgtcttat cccgttttct tttgttcagc ggtgcgggtg gatatgcatt acagctcact 1620
 ccattcttat accttctctg tccgcactcg gtttgagagt cagtgtatgt cacctttctt 1680
 cgggtgcttat taagtagcaa ctccctagtt cgagtgaaga ttctcctctc gcaatcgaaa 1740
 agctacactc cttctttttg aaaaaaaaaa tgtcaaaagc ttgaccctaa actatagcct 1800
 atagggctga catgtgataa tcgtaagtgc atgtgatttc ttgattggga taaattgacc 1860
 cactcttata gtcgcgtcaa acgcgtccac accccacgcc agatatatgt ctcatagctt 1920
 tatgaaaaca ctgtactgat aactacgcgg tcagaatgcc tctcattcgc aagcggccag 1980
 cgggtgcgtta tccctattca ctacttcggc atgactgatt gtgcgaccag gttgctgaac 2040
 cacaatccag cgacggagag tccgcttctt cagaatcgac tactcagtta aggaaccacc 2100
 agcagcgccg catccgcgcg tccccagtcg agagcgaaga tggcagcggg gacgactcgc 2160
 cttctcatgc ccccagcagc acagacgtaa tggtaaagaa actagtgcgg ctggcacttt 2220
 caagcgaata ctcacgccag ccgattcgaa gagtcgatat cagcaataaa gtacttgggg 2280
 aacagggatc gaggcaattc aagactgtct ttgaggagc gcaaaaggct ttagcagaaa 2340
 cgttcggaat gcagttagct gagttgccgc aaaaggagaa ggttactatt caacagcggg 2400
 ggggtgagca tatccgtttc cagaacttgc tgggcatgct actatagaat actgacacgc 2460
 tgcaatagcc gccagaaaag ttgaaaggcc attgtctagt aataagtctt ggatccttac 2520
 gagtatactg ccatcaaagt atcggaacaa ggatattcta tgcccaacac gcggaccagc 2580
 agagagctct tacacgggac tgtatacgtt tataattgcc gtaatactac taaacggagg 2640
 cacactccaa gagcagaaac ttgatcggta cctctccgt atgaacgccg aacaattcac 2700

acctgtcgaa cgcacagatc atttactcca acggctctgc aaagaaggct acttagtcaa 2760
gaaccgggag atggacggtg gagatgaaat cattgagtat atggttgggc cgcggggaaa 2820
ggttgaagtc ggtgcgagag gcgtagctgg gcccctgagg gaagtcaacg gtccccaggc 2880
tatgattgaa gatgacgata tcaactccgc cgagagggag aggttagagg aattcgagat 2940
tcggttggca aatagtcttg ggtttaggta acccaatagc cggccagtgc atggtgagca 3000
caccggggat gatgaaagag tcggtgagag cagcccgacc caaccgcggc ggcgagagc 3060
cgctgctagg aaga 3074

<210> 2219
<211> 866
<212> DNA
<213> *Aspergillus nidulans*

<400> 2219
cctacctgcg tcgactggct cagcaatact aactcgcaga cccaatggac cgctacaaa 60
ggggatatca aagacaaggt cattgtcatg gccagactcg aagaagaatc agtggattgg 120
gtccatgagg aactcccaga gtatgtgcct aactttccct ctcgctataa ccaaccttta 180
tactaacaca ctgcgagctg gcaacgagca atatacacag ttaatccttc aaagactact 240
caagccgatg acaagcgttt caagacacca gtcaacaaag gccacgagtc tatggcctac 300
cttacctacc taatagacta ctacgaccac ctcccgcca caatcgcctt cattcattcc 360
caccgctctg gcttcctgac agcctggcac gttgatgcac cattacacga caacgtcgcc 420
gctcttcggt ctttacggct cgactttgtc cagcgcaacg gctacgtcaa cctccgctgc 480
aatctcaacc caggctgcgg cgaaacacat gggaaacacc gtaatccaca cgtcacggaa 540
gctgtctgga tagagatctt tgaggggaact agcactccac ctgtaaattc aagcgaagcg 600
atcggccgcc ccagcacacc cagcggatgg ggaagcaatt ctatacatgt gcaaacggaa 660
tcgagatccc ttccaatacc aaccaggtc gccgcagcat gttgcgcgca gttcgccgtc 720
tcacgggatc aagtccttca gcgtcctcgc gaagactata tcaagattcg acagtgggtg 780
attgacaccg ttagaagcga cgctcgagc ggtcgagtga tggagtacta tggcatgtta 840
ttttcggtaa acagtcggta tagtac 866

<210> 2220
 <211> 2065
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2220

```

catccttgcg ctgatgagca tctcgaccct ctatccaata atcacacgac cgaggcacgt   60
tactgttgca atcaattgtg acccgccaat atcgccgatg aagtcgaacc gggggcccaa  120
gctgtgctgt tcgtcagtcg acaatcaaca ttatttccgt cattgattat tattaaggat  180
cttcccacgc ggctcgtttg gcgcggtgcg ggatcgcttg ctccagctcc acggaagtcg  240
gaactgggat gctgatggct aagcctgaaa attggatgct gaccgtcact gatgagccca  300
tatataaacc aataacaagt cctccgcgtc aatcatgatg ccatgatatt cgcggtgaa  360
acctggaagt ggacagagct gaggggatcc ccagggattg acatgttgct acacgtgacg  420
tggggtctcg caagcgcgcc aataaatagt taggaatagc accgctctgg tgtgtttcag  480
attcagccag gccactttt gcgtcgccag tttgaactag cgcgcgcaac tcttgtttca  540
agatttcacg ggcgttgctc gtggcctcac accgcagcgt tcgtccactt ttgccccac  600
gattcgggga ttcggcgaca acaatagctg agcctagagc ccgcagcttc cagcagcagc  660
ctatactcat gtttgaata gaccgccggc acagcctgcg agtgtgcgtt tcactctgca  720
tgctcggcaa gcagtgatag gaaaatgtcg caataataat gcctccactg tctcgtagaa  780
acaatctgtg gatcattaga aaatccagca gttccatatg acttaggccc tctcgcactc  840
tttgtcttct ttcttatcat actgctgctg tttctcttca ttctcagctg aaagctgaac  900
agctgcattg tctctactct ctctccagcg cacgctgccg atcgagatag accccagggt  960
cttggaaactg aacagagccg cgcacaagca tctggcaaca ggaaccgttc ctgtaacaga 1020
gcgggtcaga cgcttcagag gctgggttcg agctcgatta cgattattat gactgccgcc 1080
tgccaacaac actgaacaaa cggaatcgac ttcatgaaaa ttggactgaa gaagcagtcg 1140
gctctgtcat ttccttctcg aaggcttcct gaacattcgg ggatcggact gtttgatcct 1200
gcacggctga gagagtttgg tgctgggtatt gcgatcgctg gtccctcgtg tattggcaga 1260
cgaaatcctg cggatctcgt attactgccc tgggtattgat ccaacaatcg tgttcctgct 1320
gtctccgata ccgaaatcca aggccttctc attccagaga agtagaaaga actgttgccc 1380
aggatatgtca tcttcaagct tgtttttttt tttttggtgt tgtctctctg caatcttggt 1440

```

tacggtacat gcacatgtcc ttctcgtccc cgttacacgt cagggagatg cgccagaacg 1500
ggccattgg acttttctgc aacagcgtct ggtaatatc tctgaatcca gacgccagc 1560
ctcgagaata caggtcctcc tggcccgcaa tctggcggca tttccgatcc agcttctgta 1620
tagttccag ttccagttc ctacttcttg ccacttcttc ccactgctca tgcttcctcc 1680
cactcccaac ccatgatcat gagaaggcca atggactcca gtctccaact gcttgctccc 1740
gtcccaaaca tgacgacggg cccatgctag cggcgttggg aagagctggc ctctgatttg 1800
cgtgcattta gcgccatct gcattccagc ctctccctcg cactgacctg ggcggctaaa 1860
tatagctctc gctgtgtcct attggcctct cgcattagga tgaaccagag ctggctgctt 1920
gtccccaccg cgttcgctgc gggcattggc tgccctttaa ggaacgcggg cgagcagctc 1980
tgcccatect ttcccttccc gtttgcctgc acacttgact ctggaggctc attgcctctg 2040
tatcgggtatt acgagtcagg tttcgc 2065

<210> 2221
<211> 2025
<212> DNA
<213> Aspergillus nidulans
<400> 2221

aaaaaataca aattaaaac aaaataattg caaagggggg ctccataaat cggaccaaag 60
aggacaatta tccgaaggag aattgaacaa aaggctagac aagaataatt ctttgagcca 120
gccacgatgg aaaaagactt ccggggggaa cgctccaaat ggattaaacg actccttgaa 180
tggaaggcc agatctttcc caattacgga gcatacgggg atcacgacca atcaaccttg 240
gcggcttgca ctggagcgcc acttccaaaa ggtccttggt ttctgcaaac tgaaacggctc 300
tatccgcgct ggctcgtgtg gcctactgca tggtaagctt aatatgtcgc tgatccaggc 360
gatgaacttc attcactctc aacggttctg tattgatatg gagaatggct taaggccgat 420
gttgctggca ttcgaggggc ttttaaaggc aaagcgggac gtcgaaaagg cgaacaaggc 480
tgctggggcg aattttcttt tgaccacgcc ggctatgaca ctctctaaga agcgaagctt 540
cgcagaccac gaggaggacg atacgatgga ggatgacagc atggacctgg agaggaagcc 600
tacggcgccg tttcaggatc gctgggcata atagcattgt aagctaagta tcttctcgct 660
tgggaggtgc tgtcaaccct gggcgatatt ctacgacctt tcagttcttt gtatttatta 720

agttttacta ccaccagatg atgaataagt ttctcggata ggtaaccgga attgttagct 780
 aaactttctt atcaagatct gagtaagtgg cagtagcatt gagagtgtca gtgggtgttct 840
 agtagtacca agacaagcag ccaggccgtc gtccagatag tcatttttaa attcgataca 900
 tactgtataa cactacggtt aagttcctac tattatgatt gctctttgtc agtggacaag 960
 aactcctgtt ctgtacgcca ttcttttttg cttgcagcct ttagcccaaa tcgttcactt 1020
 aacctcaat caggacatca acacttccag atacctatct ctacctcaca acccacacgc 1080
 ccattcatca tcatcacgat catcaacatc acaaacacat tcatttgcca tcgtcgtccc 1140
 taaattcttt ttttctcctt tcattatctt acctaatctt cttttagcct cctgcaagca 1200
 agcaggaagc gcaaccgagc gagcctcagc acaatgcaca tgaaccttcg aaagaatatc 1260
 cgcttccgc agcacttcaa ccagaccat ttttatggcc ccattgtcga acgatctttg 1320
 cgcgagagacg acaaaaagag gccagcgtac actgactata atccgaactt accccctgcc 1380
 gcattcccga cgtagagag gccgagggga gcaagatacg gtcaggatat acatcagagg 1440
 gacaacgacg aagacagact gaacaaagcc agtcgaagaa acagtaggag gagttttgat 1500
 gacttatgtg catcagtaaa tcctaattggc aaaagggaaac catcgccgac tgctcatgtg 1560
 acggaaatac cgctggacca gcttgacaat tacgtggcga gcaatggaga gctcaaccct 1620
 atctgggtga gcaatatggc tcggatggct gctgctggaa aggatgctga tgctgatatg 1680
 gacatggaag atactgactt ggaaggagc gtgactgggg agtgtcgggt aagtcagact 1740
 ctggttgccc tctactggcct caagcttggg gaatttggca gaacttttga gacttactg 1800
 tgctgaaagt cgtgtctcag gcctcacagc agtcccacga taagcggcgc agtttctatg 1860
 cagtggatatt ctgaacttgt ctctttgcta acactattgt tccactattg tcagtctatc 1920
 tcgccagggc cacaaaaccc gacctgggct gacctctcac cacgaatgcg agccgagatt 1980
 tttcaaaatc ttgttagaac gccgacagct acccgcgct gtgtc 2025

<210> 2222
 <211> 3267
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2222

tccaagtcgc tcgggtagca ttttcttct catcgagctt cttcacgtcc tcttcttct 60

cgccatcgtc tcgcctcctt gaccaaactc gttgactcga gtatagtcta ccttataactt 120
 gtagctttga tagagccaga tgaagaaaat tacatcatca cgcaggggtg caagtctgtg 180
 gagccaaggc atctttacag taaacgcgaa gagatcatcg ataaacgtgt tgaggaactt 240
 gtaagtcata gcctttccag gcataatgagc gacagactag agtatgcttg ttagcagaag 300
 gtcaagtgac gattgcgacg gtacgaacct tgagtcggta gttaatgtac aagctgggaa 360
 ccatcatcag aaaaccgtag gcataaacac tgccgacgag ggtctcgatg atataagagt 420
 accatgactt gtgcgtgttg tacatcaagc tgtaagcagc gtacgctccg aggagaggca 480
 cagcaatgat atacaggtag cggaacgcaa tctcatcata ctcttgggtc ttcttctccg 540
 tttctgtgag tttatgcttg tcttcaaaca caaccacata aggaaggaaa gagaagaagg 600
 atccaactgg aggtggggcg agacggacat taaccgtctt cgtcaccttc caagcttcca 660
 atacaatacc gaagccttga ctggcgagaa tcatccagga agtgttctca ctgttggtcca 720
 tgagatagag gaaaatgact gtttgcata acacattggc gaggatggtg cggactgacg 780
 tcccgacatt gtctttcttc ttgcgccaat gagactgcag taaggagcac aatcagcttc 840
 agtaactaaa acccttggga agacgaggac gacttacaat gtcatttttg aatgctagag 900
 tttcaaaaat catgtgcaga attgtgacta caccagttgt acccaacaac cagatgttgg 960
 tatccaggag cacttctttg atcatctcaa actcgctacc atcgccacca ccaggggtag 1020
 atcctccgaa tgcggcttgc ttggcagttt gtttggcggt ctcgctcagg ctcgccatca 1080
 ttgcaattt ccagttctgg aggttttggg gtgtaaaccg tagagggata gtttcaaccg 1140
 tcgagttgag ctccaccata tggcttctca actgccagaa agtgttcagg aagacaatag 1200
 gatagtacca accattctga cccgaagcat ctctcgcgcc agtcgcctct agctgtgtgt 1260
 ggcgacgaat ggcaggatgg atttgacggt atttcatggt ccagaaatca ggaatcacgg 1320
 atagtgtgaa gttcgggtgg taatatgatg caattgaaac atcggggggtc ccatcgtctt 1380
 cctctcatc tgtttcatcg gcacccgca gtaggttctt gagcttctta gcctttctct 1440
 tagggaggta ctgattgaga ggtcgtaaga agtgcacagc tgtatctgtg ctgtagccct 1500
 ttgccgcagg atcaagctcg tgcccactca atgccacgaa aaagtgagcc cagaggggtcc 1560
 cgttatgctg gacctctttg ggaacctgaa tgggtggtct cacctctcta acatcgctgt 1620
 agtttcctag accgaatttc ttctcttcca gtacaagaga actcgaggga agagatgaga 1680

tcgaaggaag cacaatcgac ggagaaacgt aaacgctgat atccaaggca ctgtccgagg 1740
 gccagatcgg agcaatagta tcgggaacag agctgtagtt ctcgacttcg gcttgcgagg 1800
 gtcgctcccc aaaactagtc acagcaccgg gttttccacc ggccgtagca ttctgcttgt 1860
 ttccaaagaa ttgaccgatg aagaattggg tcacaaagaa aatagtgaca ccctggatta 1920
 gtgatctgac aatggactgg agataaaacg tcagaacaat gagtttgaca agtagacggg 1980
 accgtacgca cgccttgctc tccctcttct ctctgttgcc gctgctcagg cattttgaaa 2040
 cctggttctt tgcaatagac ggcggggctg gaaaggaaag gaaaagaaaa aggccacgga 2100
 tggcggaag atagatgatg gaatcgctc caagccttga ctaagggcg actagccccg 2160
 gccaacgagg tccagaagtc cggcagttct aggctagatc tgaatgccat ccgcattcat 2220
 tcgaatacaa ataccctccc acgcaataga gctctcgctg ctcgattatt gggcggtgcc 2280
 tcttgcgga tggatatgct ggccccgtga atgccatcct cgcctcatg acagagaaca 2340
 atccctcccc tgactactcc cgcccgagc tccctcccca taatgagtcg cgcgtatggg 2400
 tgatcaccgc gggagattcg cctattggta tttcggttgc gcgtcagatc cttgcgcatg 2460
 gggacagtgc tctcgctcgt atcacatcct cggatctcga ccgcgatgcg tgccgtcggg 2520
 atatgttcga ggacttccag gcggaagttg aagctcaccg cgacgaggga tgggctgagc 2580
 gattcaaggc tgttcaatta gacataaggt gcgcattcga tctaataatg cacctctgtg 2640
 aaagagccca ctaggctgag actcgcgggc caggattatt ggagagtgtc aggcagtggg 2700
 tgccgaagcg gttgcgacat tcggcaggat agacattttg ctttgctgca ccagtcaagg 2760
 taggactcag tgtcaagctt ctactctgtt tagtatagag ccctgaccat ctatagcact 2820
 cgttggaacg gtagaggagc ttgctgccct ccaacaaacc ctgaactttg tccgcaatca 2880
 agttgaggtc attactttgg gcccgtaat attttcaggc atcgttactc acattgaggt 2940
 ttaaggtcgg gcatgctgaa tgtcttcgaa aacatatggg tccataacca gcttttactt 3000
 tgtcctaaat cccacactcc tatgccccct ggttgaagcc ttgcgggagg gcccaagggt 3060
 ttgcataggc ttatattaaa ttttttgacg cgtactcctt ttccagcctt atagacgtct 3120
 aaaaaaacct ttagagatgg accttaaacc aacacggggc gttgctctcc actaacattt 3180
 ttgattcccc cccccccaca ggggattagg ctctaaaaaa aaaacgtatt atgttccatc 3240
 ttccccctcc cccttcccc ttgattc 3267

<210> 2223
 <211> 1458
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2223

```

ttccatgtcc agtattgtga gaagttgata gagcgctttg cagagccgcc tcgccactct 60
tttctggcaa gctgcctaac cagccagata tatacttccg gctgatgata gcaaccagga 120
aatccctgcc aataatactc acttcttgcc atctcgaacg aaatgcccga atcgcgagcg 180
cggccgtgaa taagtgagac cgaagagagc caacgacgca actcctaacc ccattgttct 240
ggtttcaatg atcgtagttc atattatgcc ttcaggtcat gaaagcttcc tgtcaagggt 300
tttcgctcag ttgcctatg cacttgggat ttcttcacct cgtattcgtt tcataacgat 360
ataagctcgg tttttctgaa cgaaggagct gtagacctta tgatcagga ttgtattcct 420
aagataaagt tattctcgat catcttgacc caagagttgt ctagctcatc tcttaggcag 480
tatatgaata caccagccgc agcgccgtag aacttcgtcg cggcttcaa agcgagaagt 540
gtcaggaagc agttgcaaat gcgctgtcaa ttgttatttt cctgtgcttt cataattatt 600
cgccacccca ttttcaggca ggacttgagt taatatctaa ttccacggtg cctaatcatt 660
ttgggagtat attgtaagcc ccagccgggc tgaaatgata ttaggttgca caatttcctc 720
aagttgaaat attatcctgc ttagtaatta tgaatatggg ttgtgctgct acaggcaaaa 780
agccagctta gggttcggct agaccgaac aggataagcg aagcgccac aaccaaccga 840
gcgcccacca tctgaactgg attgtgtgcg agtgaaattt cgactctcaa cgacgacgac 900
aaccgacgac ccattcctct cacctcgccc ttcaactccc gtacaccttc acttcgaggt 960
cacaagtgc caaaatgggt ggtgtcaccg ttcgcatgtt ggacgtaagt tgtcacttta 1020
cctgtccttc tgcacctgca cctttacctg gcaacggatt ggcatctggc atcaagagag 1080
ggaaaggaag cagtcgatcg aaacgagaac acggacgatg ggaacatgga aatgttgagg 1140
gggacatttt tgatgcaaca aacgcgtgga atcttggtgg ccgattttac ggtgacgggc 1200
ttcaattgtc gatacgattg accggtgact acgatgcgaa tgcgaacaga tactgaatat 1260
cgatatggat taaaatacgc acagaatcaa tcgttgccag ggggaagggt tacaagcag 1320
agggctaatt tttttggcgg tcgaatgtgt gctgatttcg ttacaggcgc aaaagtcat 1380

```

tgtggcttac gccgctttct tgaagcgtca gggaaagctc ccatccctgg ttcgtcatct 1440
acctacgcca tctgagta 1458

<210> 2224
<211> 2671
<212> DNA
<213> *Aspergillus nidulans*

<400> 2224

atcccactcc gagtttcttc actatttcac gggaagtggg tgagatccaa ttactgcaat 60
ctggcttcaa cgaagtatac gcaaaaatac gcaaaatata tacgcggact tacgttgtca 120
ttggattctg ccggtggata caaagcaatg taaaggcggg atcgagagca tgtacgcctt 180
atcgctcaca tgaccaacgc gaagtccaat ccgattcggg cagtccgtgg gcacctcatt 240
cgtagtacta gtacgcgttc agctgtatgt cttgcagggt ccagatcttt cgattggaac 300
tctgagctgg ccagaaatgt ctgccggttt ttctgacttt gacgctgggc atagggatct 360
agtgactgtg acgaagttca actactatgg caaccgcata gttaccgctt cgtcggacca 420
tcgcatgaag gtctgggacc agaaagatgg cgaatggcag ttaactgaca cttggcgcgc 480
ccatgatgca gagatacgtg atgtaagggt ccccccttcc ttggtaaatt gtacgtattt 540
aacgatccgt taccgcaggc aacctggaat gggcctttca ctggccagca tattgggagt 600
gtgggggagg acatgaagct gaaaatatgg caggaagatg tcactcagcc gccgaactct 660
ggccgccgtt tcagatcaat cttccgcttg atggcgccac aacggcatcc atatgtctcg 720
cttgatttcc gcaacattga cttgaatca tggctggccg tcataacgcg cgacggcttc 780
ctgagagtca tggaacctgt cagcccagac tcactcgctg actggcagac tgtcgacgaa 840
ttcagggctc gcgccgcgcc ccagcgcggg gaagagacga gcttcaaagt gcagtttcat 900
cacgacccta tagatatcac cactccatt ttacctcctt gggaccggaa aagcctgtct 960
cttgtagttg cggctatgga cagtgtgaag atcttccgga ctgatgcaa ccgtcgcttc 1020
taccacgctg tagaattaaa agggcatgga gggttgggta gggatatac ctgggcaaatt 1080
ggctcagttc gcggctatga tctcatcgcc agcggatgca aggacggctt tgttcgaatt 1140
ttcgaggtgt atacctcctt atcgtccaac aatgcgcgag ataccgatcg caaccacccc 1200
caatcgtcog cacaatctca gtcgtccgc accacagcgc agtcagggat aggctcagct 1260

ctggccaatc gtgcgcctct gtccatggcc agccggcccg caacgggtga ttccgccgttc 1320
aagcattctt acaaggaagt agcttgcacg gatagcaagc atctcgatgt atggcaggtc 1380
gggttctcct acgccgggta gttccttcga ttcactctat tatttattgg ttccgctaata 1440
gaccatgcag gtgattgcct catttcttct ggagatgacg gggtaggtcag attttggaata 1500
aaagctctat ccggggaatg gctcgaatat gcagagacgg agatgactga tagtgagaca 1560
aatgaggac atgtcaactc ttcctcatgt tcatgccgca gcatcgcgaa ctctggctct 1620
ggagctactg gaggttaatt ctggtaattg gcgacacagt tgtctacatt tgcctttttt 1680
gagggcacgg tgttctttcc cttcacctt atttctcggt gcttttttaa gacagtgata 1740
cccatcatca ggctttatct cttgtacttg aatcctctc cttgcttttg tcgtggaatc 1800
gtgccccaaag ttgacagat gcccttcaag gtgtaaatac cgctccttcc ctttgacgaa 1860
cgtcgacatc atcaaaactgt gctcttacct aattgacaaa caaccgaggc gcccgaaagg 1920
caggcaccac gcagcgcgga tcatggggcg aaggcactct aatcctgaac ccttctcttg 1980
cttctagtgt tgacttctta cctacttgct acctccctc atgtgtctat gactttacct 2040
ctgcctatta ttcgtcgcta ttcttatcga aaactatgac ggtggggcca actttgggaa 2100
ccggcctctt cgtcggaacc ggccaggcgc tcgcgggcgg cgccctgcc tcgctcatta 2160
tcacctatgt attcatatcc gcaatgacat actgtgtgac gactgccgtt gctgaaattt 2220
caactcactc aattactcgg aatggcgcgga tgctcgctca taattaccat tatacctcga 2280
atcatgtggg gttcgcgata gcctatctta gatggattgg tctcagcttg cttgttctct 2340
ttgaagtcac cgtgggatgg tccaccttgg gctatgggaa ccgagcgga gcctcgcat 2400
gcgctggggc gcttgatgtc cgcatatctc ttcttcaata tgctgccgaa cagttctcag 2460
aaggcgcaaa cgcttcttac gggaataaat cctgccacat cggcttgac atctctttta 2520
cctgtatccg gccagcaccg gcccgtagga ggtttgagat tggctacccc gtcattgtga 2580
gtctatttcg ggaccggggc ttctgctttt gtctgatcct gagacgattt tggttttgcg 2640
ggtaccggca ggtgcaaaca tgatggggcg a 2671

<210> 2225
<211> 3743
<212> DNA
<213> *Aspergillus nidulans*

<400> 2225

tcttgggcgg gaattctatg cctccccgct cgaagaaaag ctcaagtatc attccgcgag 60
taacctggaa aaaggcgagt ataacagcta tcgtccggcc ggacatcgca tgtaagcaca 120
cacttccgta ggaaagactg agagttgctc acatgacagg ctccggcaact gcgtcaaaga 180
caacaaaggt ctacaacatc cccaagttcg acggtcatca tgctcgcaag catccaccca 240
ttctcgaggc ccgcattaag gaattgaacc ttcagccgca aatgccatac ggaagtcgtc 300
gagaaactcc tccggctctt tgccattctg cttgaattgc ccgacgacga ccagctgggtg 360
agagaccatc agtatgatgt tgaaggggaa gaccacctcc gctatatgca ctacgccgcg 420
cgtgggtgcag aggagaacaa gcgtgctgcg gagatttact ccagaccata cagatttggg 480
atccgtgacg ttgctcttca ggcagcctgt tgcggcgccg caaatcctta acaatgacgg 540
gcagtgaaaa tggttaagcc gcaagatgga accataacca tcaacacctg cgatgcgctt 600
acagcgttga cgggcgggtt gatcaagtcg agcattcatc ggggtgcgtac gccgcctgct 660
gaccaggcgg gtatcgatcg gctgggtgtg ttgtactttg cagcccaaaa caaccatggt 720
gtactcgatc cgatatccaa cagccctgtg ctgcagagac ttggactgac atcccggtgt 780
cacggagctt ggcaaggatt tgacgatgaa ggagtgggtt aaagtgcgtc ggacgcagca 840
acagaggcgg agacaggagg cgaagatttc ggaggatggc aagtacacgt acaagccgaa 900
ggacttagaa atcattccgg gattgttggc caaggtctat aactaggctt catccctgaa 960
tgtagtaaat ctgaaatagc tgggtgtaca ctagctcacc agaaagctga ttggattatg 1020
atggcaccac caaaatatcc agaaatatat tctcaaatcc gccactatga agaaaaattg 1080
acgtatatc ctcccgctt cgggtcctga acgaatttga agttgtctgt cgacagccca 1140
aacggcttaa gaataccatt tcccagctac ggtgggttagc aagtcaaaat atccagacag 1200
taataggaca gtcacttact tcttttaact ttcccatcat ctccccatc tcaacctcct 1260
tcgctttact tatecttgcc ggaagctccc gcaacgcctt ttggacgacc ttcctatcac 1320
ttggtggaag attctccatc ccagcaagaa gcttgtaatc ctctccgca cctgcaaatt 1380
tcgcccaccc acccaactca ctcttgcccc tcgcccggcg catcagagcc ttcgcccgaa 1440
tgcgcgcgac atcccgtttc cgctcgtcgt tttccttgat cctctgtagt gccgcttgct 1500
cgttgacctc gtcacaaagc gggatttcca ccacggaatc cgctccttc gccgcacctt 1560

ccttaccatc ctccgggctgc gaaggcggga caaccgatc caggccctca atacaagcat 1620
ttgcgctgtc gacagcagcc ttccaatctc ctaacttcaa gtagcaagcg gacatattac 1680
ttcgtacaac agcgatctcg tagtctaagt agctggggca ggaggccagg gcccggtcgt 1740
aggtggatat ggcttgggag tagaaggcgc cgaagtaaag gttgtttgct tcggccttta 1800
ggctgtgcga ttccggcgaga agacgctgac agactaatgt gttagtttat atgatgtaga 1860
caatgaattg gagtaggggg atagcgtact gtttcttctt ccggtgggaa ccgagcatcg 1920
tgaaagactt cgtcttcgtt ttctgtgtcg cttccggcat gtttggtag gtctctacca 1980
tttgatgccg aagatgtgtc tggcggcatg gttgttattg ttctttgcac cttttgacgg 2040
acgaagttaa aggtgcgga gagtgattgc ggggagttaa ctgtcgccgt cagatgagaa 2100
atggcgtggc gcctgataac tgaggcagta aggtacctta tcgataagct atctattccg 2160
accagtatcc caccattgag gggaaagcct ttcggttgag tcaactcagc tccaccctc 2220
cttagatctg ccacttgttt ttggactcga gactttcaag aaattctaaa caatgcctgg 2280
cgtaatacct gagtaagtga tctatacctc aaacttaaca gtccccacta acaatgccag 2340
cctccccca gtacgggct gtctctttga catggacggc cttctcatcg actccgaaga 2400
cctctacacc gacatcacca atcaggtgct gcactcgctt ggcaaacctt cgcttccgtg 2460
gtccatcaag gctcaattgc aggtcgctcc tcagccagaa gtacgctgta accttctcac 2520
caacctataa caccttatct gcccgcctcc ctcagaagct caagaaacag ggtctaattt 2580
gactgaattc tcaggctgcc agaattctt ccgattgggc gcaactccct atcagtcacg 2640
aggaatatgt ttcacggatc tcagcgctac aagcagaact cttcccgcg accaagccgc 2700
tgccccgct agagacattg ctcaagaatc tcgtgtctac gcagaagggc cctaaccgg 2760
tgcacattgc cctggcaaca tccagccaca cacggaacta ccacctcaag acgagccatt 2820
tgcaggatct cttctccctc ttccctgagt cccagcgtgt gctaggcgat gacccccga 2880
tcggcaaggg tagaggaaag ccactaccgg acatctacct cttgccccta gaaacaatta 2940
acgccgggct tcgagagaag ggtgagaagg agatcacgcc ggaggagtgt cttgttttcg 3000
aggatgcggt gcctggtgtt gaagctggcc ggcgcgcggg tatgagggtt gtttgggtcc 3060
cacatccggg attgttgag gcgtataagg gacgtgagga agagggtgctt gctggactga 3120
caggggagca taaagaagag gaaaagagtg aggctgagaa cgaagcgacc gattggccg 3180

aagagagggt gaaggctaac agtgctggaa cgcctggaaa accggaagat ggacactcgg 3240
gattgttggc tacactggag aacttcccat atgaacgcta ccatatttac gatgcagacg 3300
cttgcacgct caaatttcta caacctaaagt tcatcactca aggcattctac cccaatgagt 3360
tttacttaaa cctgccattg catatttccc cagagaccat tcaccatcct ttgcacacat 3420
aatgcacttt cctacctcgc taacatcatt atcgacgtaa attttttaac ctttcatcaa 3480
accacacccc cttatctctt atgccgtttc caagcctaata ttcttttaac cgggggttttc 3540
tttacacagg ttaaacctcc aattgcttgt tgttcaatgc gaacccttac tatttaaaaa 3600
attctaccct tctacttcct ctggttggtc tcagaaatta gcgaaacctc tttcaccttt 3660
tatttatttt tatattcggg cgctctgtct ttttcttcc acaccactcc tatcttacac 3720
catatcttta cctcttactt tat 3743

<210> 2226
<211> 2419
<212> DNA
<213> *Aspergillus nidulans*

<400> 2226

cgctcctgag taatgacgtt tcccaccgag gtcaaggagt gctgggtggcg agaagatgct 60
tcaogatggg tcatgaagct acgcaacgtg gaaacggatg agatctccta ccatgaatgc 120
cagatactct tcggcgcgac gggagtctta gttgaacctc gcgcctgcga tatcccgggc 180
gcgtcaacat tcaagggtc tctcttccac accgcgagat ggaaccacga tgtagtctg 240
gacggaaaga aggtcgtagt cattggtaat ggatgtatgt cctcgatcac accatctctt 300
taaaaaattt gctgacaaac cagggtactgc tgcccagggt gtaccagcta tcatggatcg 360
cagcggctca gtgacgcaa tcatccgcag caagcactgg gtggttgaaa cgggtcaatgt 420
gcaatacacc cctactatgt tatgggcctt tcggaacatc cctggcctcc aggcactcca 480
tcgtttcgct atataccaag gcgctgaggc tgactggcag ctcttcccta tgacgaagtc 540
ggctgctaaa taccgccaga cgcgacgcaa agagattgag gcctatatgc gaagggccgc 600
gccggccaaa taccatgacc ttctcatccc agactttgaa gtcggctgca aggtatacct 660
cttcttctc taatgtgact gtctactgtg aacctgctaa tggtatcagc gtcggatctt 720
cgattgcggg tacctcgact ccttgcacaa tgataagtat ctctcacgg acgccaagat 780

cctcgaaatc accccggaag gtatacaaac ctcgaaacgga ctcatgagg cagacgtgat 840
cgtccttgcg accggattca atacgaacac tttcctccc ggtatgcaag ttcattggcg 900
agatggcata accgttgacg aacactggag ccgccagggc ggtccagggg catacaatac 960
ctgcgcgatg aacggcttcc cgaacttctt cgtcctactg ggaccaaata cagtaacggg 1020
ccatacgtcg gctgttatgg ctgctgagaa gtatgacta aacgtccacc tgatatggta 1080
tttgtttaact cggggctata gctcggtaaa ttacgcactt cgcgtcctaa aaccggctctt 1140
agatggcgcc gcacagccg ttgaagtcaa agctgatgag gaacatgctt atgtcgagag 1200
cgtccagact gcgctacgga atacagtttg gaacgctggc tgtcactcgg tatgttgctt 1260
cccagctgtc tgataccact aacctcgggtg tagtgggtacg tcaacgagaa aggctggaac 1320
gcatgggctt atccctggac gcagcccat tttcgggata gaagtttggt tccgggttggt 1380
aaggattgga atatcaaggt agttcccaga tcgtcgagtt gggcttcaaa ccagactaac 1440
actgctggac agtgggcaca gaaaccagcc actcaggctt ggagacggct gcttctagcc 1500
gtattactcg tcgtgagcct tgggtgattt aatcgtgctg ccacttccc caacgtttca 1560
tgggtggacag ggatagttac tggactacgg aagagagtta ccgcgtaggt gtattggatt 1620
gtcctgtagc tttattatca ggtaagcatt tacctgacta gttttatact ctagctaaca 1680
ccttcaggat acgggtgttt agtaccacaa attcatctta ttgggtgtct taagattcca 1740
tagtgtcca aacatagctc tggatatggg cggaacggcg ataaggaaa tagcaagccc 1800
tcggttttat tagctgtttt gaggcccgag ctagatgcag gtatctccgt ctaagtgaga 1860
cgtagggcca acccgactt aagcggcagc tcccggtatt aacaactccc taaccttctt 1920
ggactacgat tacagcaaca tgaacttcac ttcctctctc atgctatgcg cagctgagat 1980
ggtcgtgtgg acaacacaat cgtggatcgc tcccttggca cgcgccgaa cagaggtgct 2040
cgtcatggct taactccgct gaatatatct gatataatta tataatggaa gctccccacg 2100
agtccagatc acgcaaacat acttttctga aacatacttt gctgcgtcta ttgcccttac 2160
aaccatggcc ctagttgccc ctacagtcgt tggcaagatt gtcggcccta gtggcttggg 2220
tctcatgggt acgtccactc tctgaacatc ccatcttcaa ctaacctgct tgcaggattc 2280
actcgcctt gggcgcccg caggtattcg ttggcgacaa gagtcctgaa aaccgcctg 2340
gatcagggcg cgacattctg gaacggagt agtaaaccgt cctaaccgc aaacctacat 2400

tacaactact aaccaacca

2419

<210> 2227
<211> 1533
<212> DNA
<213> Aspergillus nidulans

<400> 2227

actacaggcg caaagtcggt caatatagtc caccatactt agaaggatcg gcggcgaaag 60
agtagcgtgg gttgttagtc gttgcaggta atcatgtaca gatatacgag ggggagtgcg 120
tgagtggaaa cgagtcagcc ggccctgatt caggggtatt ttatcgttgt agcggataag 180
ctccatcaac atgctggaaa tgaggacaac cagatccctg ggatcggcga actcataacg 240
aaccgggaga tacttgacag caggggttcgc cgggcgcagt cttttcgatt gggatccttc 300
aagactcaga ctgcccggtc cagcgggctc aacaccgcga gtagaatcgc tctggctggt 360
acgcttggtg gaccccgccg tagtagtcgg tgccggcatt ggggggggct ggggtgttctg 420
aggagcagca aaagccggag gaaccgtggg ggcagggccg ggaacggagg acgtattagc 480
ggtagactgg ttggatgtct cggggagggc ggcgttagaa ctgggaccag cagcgaaaga 540
tgctgctgcg gacgcggaag tactaattcc gcccccaagg gaggtctgcc cagcggacat 600
acgaccgcaa gcaggatccc ctgagggcct gctgggtgga gacgaaacgg aatgcctctt 660
cagagctgag cggagctctt caacggccac acgcgaggaa cggggagtga aaggactacc 720
gggcacaaca gagcgatcag cggcagagtc atactgctgg gcttgatagg cgagtgcagc 780
cgacgtcgat gacaggcggc gcgtaaacga ggtcgaacat ggagagtgag gaggatgaag 840
ttgggtggcg gcgggtgagg agggagcagg gcgaagggcg gagggcgaag gcgaagaaac 900
taacatctcc gccagcaga ttcaccacgt gggcgcacga ctgaacgagg ttcttcgaga 960
ctggcggacg ctgtgaaacc caagaccggt actattgcgc ttagtgctcg gcacagacac 1020
attctgtaaa cccctactcg aaaaagtga aagagtagaa gaaatgataa cgatcctgac 1080
gatggatcta agaaaagagg atgtggaaag ccaaaggaca aagacaaagt gaagtcagtc 1140
cacgctggag accactaatg gactgaataa aagtatgagt acagtaagat acggtaatgg 1200
tcttgccaa ttcctcatta ggccaatgaa gcttatttat caccagataa cggagatcgg 1260
tacagatata ttacatgtct gatacagac tgacgcccgg tcaggggaagc ccgatcatatt 1320

gaggacgatg cgctatattc gacgaattaa cgtccggcaa tgtcgggact caactccatt 1380
 tgtgtcgcaa ccaaggaacc cggcacagaa ttggcaccct accccaggac gcttcogact 1440
 ggccgagctg tcagctggta tagaacgata agatcaaaat ctttcgcgcc tgatggtcag 1500
 accttcgacc ttgaggtgtc agtataacga gtc 1533

<210> 2228
 <211> 471
 <212> DNA
 <213> Aspergillus nidulans

<400> 2228

gatggggtgg acaagagaag acagcgagca ggacggggag gtgtttgagg ccgccgctca 60
 ttgacaagaa aacgggctgt acggagtacc tcaacagtta atccgaacgg aattggactg 120
 agaatgagaa ccgcgaacac acagtggtaa cttcctgtgg ctgaacaaac gctgattggc 180
 gatttagtgc tgtggcggtg tcatcgccaa tcagacggta tacttaccga gtaatctgta 240
 cgggaccacc aaggagaact acctggactt ttgccaggga gtcattctcc tagaaatttg 300
 tcagacatga gagtaccttt ggttacaagg tgactttggc tggttagcat tctgatattg 360
 aatacccttg aaagaggaca cggcaggcta cgaagacagt ggctcaggag tatctccatt 420
 ccagtcaaag ggccttcttg attcccatgg tggcccaaac atgcggaaaa t 471

<210> 2229
 <211> 1446
 <212> DNA
 <213> Aspergillus nidulans

<400> 2229

attgctgtga cagcgtccaa gcaggcagcc agccctcggc acaatcgctg taagcaaagg 60
 ctgacagcgg cccatcatct ttccccgctc gctgtgccgc caccacggtc ggctttcttc 120
 tcatcaccac tgaagagcct agcctcccggt cggccgggggt caacaccgta cctgactcga 180
 ataatcccag acatctcccg gagatccgta gcccaggccg ggtagttacc atccctggat 240
 ctgcgtggta tatgctggac agcgaagtcg ggttcgtaag gtcggaataa gcagtgctag 300
 gcacagcgct gatgatctcg gaaatgatcg agctgggcat ttcggggatg tccgggatgt 360
 cctttgtgct ggcagagtcg gagtccgagt cggagtccga ggaagagctg gagccgctga 420

tgccagtcgc tacggggatg tcgcttgagt cttgcgattc aatccattcg tcgagcgtgg 480
 ggacatcgcc tgagacacca gtaggtactg ggaggtcact ggggctttta tgttagcagc 540
 ggctagtctt tgaaggagg taagcgacat acgtagtcga ctccagtgc tccatggagt 600
 caacaagcca gtcctggccc agggccatcg aagaaagggc aaggaaggta aggtatttgg 660
 cgtgcatatt gacagatctg acaagaagcg aggtagaaag agcgtaaaaa aaaacaagga 720
 gcggaacgtc aaaaatgtac agtgtaaaat gagatggaat tgatattgat tagaataaaa 780
 atgccaaccg ttgctgaagt tatgttcaaa aagtctgcc cccagagcgc tacaggccct 840
 tcatataggg ttcacattga acatcgcaat aagacacttc gtgtctgaca gcaaaagaaa 900
 gtttgaacca agttctgaac gaccgcttta gaggcgtgc agccgtctcg aaacgtcctt 960
 ctctcgtatt cagtcttgtc caccttacct aaccgggagg atttgcaacc gcatctcgta 1020
 ttcagatgga cgatcgctgt tgcaaccctt aagtaaatat ggcatatgga gccatccgaa 1080
 caggaggaga tttttgtatt caagagcgtc tgaattgtcc ccttggcggc tcgtatcaac 1140
 atcggctcgt cggcaaagtg ctggtgcctc tgcttcttac tatggtgcct gtgccttggg 1200
 tctggcaggc ctttcgactc agaactgagt cagaactgaa aatggcacc acagctagtg 1260
 gatacgagcc cctgcgtcgg caatgcattt gtgaggctct cctgaaagca tccacagtct 1320
 ggggtggacac actccatcaa ctccatcagc aatgaatgcg tttcctgctc acacgacact 1380
 gatacaaaaa gaaggaatac gaggcacggt taaaatgtaa gcattctcag ccagatgatg 1440
 agtcca 1446

<210> 2230
 <211> 2445
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2230

acgccgtcgt gtcagcaggc gtctcaacca caagaggcgg ttgctttctc tgactcttgg 60
 cagacttggg agaaggcgcg cggtatggtt gaatagcatg gtccagtgc cttgtattga 120
 gcggaaggctc tggaatcgca gacggcagca agctggctgg aagtttgaca ggacgctgat 180
 cgatgcggat aggctctgtc tgaatgccag ttgttcgagt ttcggtgact gccctcaagt 240
 cggcctggca ggaaacactc ttagtttggg gaggaaggac tacgcttccc cgcggaagaag 300

aagggttcgga tacggggggc tgaattgtga tcattggaat ctcaatgttt gccggcttga 360
gcttctgcac agggttactt tcagcttcaa tcttggcagg aatatccgtt tgcacagaag 420
ctggaaccat agcagcgtgg tcgacagctg ggagctccaa aggcgcagcg actcttggag 480
tccaaggagg ggttgaaga ctctcaacag tttgagagga ggccgaaacc atgtcgatgg 540
tcaaagtcca tgtactgctc tcctttgttc gatatagcga aacatcgttt tccacattcg 600
cttcaattga cttatcagcc attagaggta gattgggcga tgcagggggg gagtattgga 660
caccgctgtc ttgatattca gtaggcggag tccggtcaat tgaagggtc ttgagcactg 720
gagatgcctc agctttcacg gcaaagctgt ccagtttctc atcaagcgaa acgccaagga 780
tttttcgtgc cttgctactc atggtatgag acatttgcca atgaaccgag atggggcgct 840
cttcaggaag cgctcgggg gattgaggta tatcatcatc attatcatca tcaaggctga 900
actcatcttc ttcgtcaa at gctagctcgt ctgcaagggt tgtctgtgaa cctagcatatc 960
cggcagcgct cataaccgaa taacgtccct caccaagtcc atgatgttca tcaactcccag 1020
cactactcaa actcgtgatg ctggtccggc ggcgtccttg gctgctcgag tacatgctaa 1080
cggagtcact gtccttgccg gtggacgct ctttccctgc gtcttgtgca tcgtttatcg 1140
aaggctcgcg ggagttggca gcctgggcgg ctgcaacttc gttcaagaca gctttgagac 1200
gacctcgac cacatggact ttccgctcca gattcctccg ttcgccatcc caggcctcct 1260
tttcccgagt ccacagcttc gtagttcttt ccaattcttc atcgcggtt ctagccttct 1320
tctgcgctg ttcaagtttc ctgcggaatt cagctacccc ctcgagtgcg ttgtccctct 1380
cttttctag ctcaagtaagg gccgaagagc taccaccttc cagaagttgc agttgctgct 1440
tcagtgaccg agactctttc gagtgccttg ccagccgctg agccaactct tcattctcta 1500
tccgggactc gtcgaggtg ttctccaagt ggtcaatggc ctttgtcttg ctctcgacgt 1560
ctcgtcggag ggcgagaatt tcagagacaa gagaggcgtg caaggtcggc gtgaatctcc 1620
ggggatccag cggcgatatg acgtcctcat cagcaatgga atcgagatcg ctgcgtcctt 1680
cgggagagga aacgtgattg gggagcgata caggcgatac cactggacct ggagacgagt 1740
caccgccgac atgcatggaa ggtggtcgtt ttggagttgt agaaggcggt gggaatgcgc 1800
tcgctaattg cgggctttga tacatcgctt ccgtggccat ggcgtctgca gttagaccat 1860
cacagtgcaa caaggctctt gtcagagctg caatcgctcg ctctcatgca cagcgcgag 1920

tagaccgtcg tgtagaaaag cttccattga ctatacctat gtagcttatac caggcaatca 1980
 agcagtaaac gaaggaggca gtcgagattt caacggggct ggccagcagc agtgattatac 2040
 atcaaggcct tgccgctgtt tctattctgg aagcatgagc tagttagttt cgagttgaaa 2100
 catgtggaaa tcaaaagcgc atgcgagacc atctgggcgg acgtagtcaa tacgtacata 2160
 cgggactgta caccgtctct accaactcca gagcccagga ggtttcgata atggcagctg 2220
 gagtccgcgc gttctccttt gtagtggagg tcgtgatcgc agatcgagtc acgaatagac 2280
 aattcaagag aagacagggt aagacaaccg cataagatta aaatagatgg gggagcagga 2340
 ataggtagta tctgcaacac cctgtgtccc taacgttggc tatcgtccaa tccctcgctt 2400
 ttgcgaggaa gagggggggg aaatgcgatg cacgaagtac ggagt 2445

<210> 2231
 <211> 994
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2231

cggacctttt cccagactcg taaccaggca tgcttcttgt ttcttgaatc cgcgccaatt 60
 acacaaacat catagagcag cgggagtagt gagtaacaga gcccaatata ccgatcgacc 120
 acaagttcac atccgtcccg aagtcgcagt cgcaaaaccg gcatccgtcg gtggatcaga 180
 cactccactg tgtcgaggta taggagacaa ttcatctcaa tgtccatctc agacagttgg 240
 gacagcggtc cgggtgggtc ataccatggt tttgcatgaa agagtatata ccggcatatc 300
 gtgaatgcgc cttggccgta caccgatgct gccgcagccg gtgacaccat ttggtcatag 360
 gtgaggatac ttgttcccaa cgccaacatc aaacggacct gtgccaaatc tgttggaggg 420
 tctagagcac gaagtttgcg gatcgccatc ggcgagcggg gacatgttct gtgcttgtgt 480
 ttgtatttga aggtgccccg atagaagggc aaattcgcca gcgcaagcca gaaacccttc 540
 caagaggttc tccggggaga tcaggaatcg agagtgcaga gaatgacgca tcttgcttct 600
 aaaagaaggc ccaatggtaa aatgggagat gaaggctgta gttgagaaga ggaattggat 660
 cgttgtctct tctcggagc ggagagtgat cgagagacga ggatatggta gcggatggac 720
 gagcaatggc aatctacccg agtcatcgct atttgacga gttatgggtg atggtgaggt 780
 tgaagttgtc tgcggcttcc gaccaggggg gcggatcttg cggagtgtct ggcacttgtg 840

gccgagtcgt tcgcatcgac gacacgtgga tgcttcccgga ttgcgcccgg gctggcattt 900
gaccttgatt gtgtagcagc gatcgagga gcgtctcttc atcgtgtgtg agtggtgttt 960
ggagtgtggg gaagaggaat tgcagacagc gtca 994

<210> 2232
<211> 1672
<212> DNA
<213> *Aspergillus nidulans*

<400> 2232

cctggaactg tggcgggcac catccgcgcc agtacattgg tgaagcactt gtgaaccagc 60
accacgtttt tctgactcga gggattacga gcggttgccg cctgatcttt ccgaggattg 120
gctttgttag agcaagtgag gggcaggggt gtcagacggg tagtgtggaa catactgcta 180
gaggtagtac tctgctttac atggagagac agactgacga ttgactagca agcagcaggc 240
agtgttacta tctacgattt tggacaaacg actgtaaaag gctgatgctg cgaggctctt 300
agtttgagga agtcactggg ccttagcata cacaagcaa tacacgcgag tgagggtgtc 360
aggcgggtat atgcgacaaa gggaataggt catggtatag ccttaaaaca gtaggaccag 420
ccttggaag aaatcgaatc aaacaaagga aaaggaacgt cggcatctct tcataccctg 480
ccagtgttag gaactggctc attaatattc ctccacggg cggcttccat taccacagca 540
cataccccga acttgatttg ggcggcactt gtagatgcct cagttgctgc ttagccttc 600
ggttcccatc tacgagctcc gccaaaaagt ccacagtgcg cataagcacc tcgcgcttcg 660
tcgagcgcga actgttctcc agccgggca ccatcttgta caattcatcg tacatcctat 720
tctgatgtag acgccgattc cgctcagcga tgatgtgcaa gagccgtctt cgcttcttgc 780
ccgtgatctt ctggagtccg gctcggctca gttctgccag ctgaggagt tggcttctt 840
ctttgcttga cggtagtatt ttcgttgctt ctgtcactgc ctgaggctcc agctctagct 900
ccgtctctgg ctgagactcg ggcttgagtg cgggcgtctg cgccgctcgtt ggcgtggcag 960
cccgcgaatg cggtagtgcg tggattccat ataagggagc cggttccggc tccatcttga 1020
cttctggcga ggagtccggg gccggttggg agccgttcgg accgaaagag acgtcagaac 1080
cccacatgag gttggactcg ggcactgtat aacgattcgc agctaagatc tttgcatcgt 1140
atggttggtt ataggtgacg ccatcgtcga cgtggattag gacgtcgtg atgacgccgt 1200

tgacgaagcc gtcgtattcg ttgtgcacat atggtattga gctgaggaac ggtgtctggg 1260
 gaaagtatgg cgcgaatggg acggctttga gcctgttagc aatggctgaa ctggatagat 1320
 gaaaagccgt tgaacaaacc tgggccgcat cgcacgcttg gtatcgcata gtgttgtggg 1380
 ggcgggtggg tatacgggtgc gtctctgtag atgggggctt gttggagggg agaataaaat 1440
 gaagaccggt agtctggctc gaatgcagaa gccatggcta tgggtaactc tcacagcagc 1500
 ggactgtcga actggaacag cgggaagggc tgaatatataa actcgcggcg tacaggtgga 1560
 ggacttttga gatcgataga gcccagaacc acggggtagg ctataacaag aggacaatga 1620
 acgttgaagc ttaagcccg tacttttagaa caggcgggcc cctgcggtat at 1672

<210> 2233
 <211> 2506
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2233

aacgaccttg tgcccaggaa gttcaccacc ctctccaggc ttagcacctt gggccatttt 60
 gatctgcagt gcgtcggcgt ctgcgaggta gtgggatgtg acaccgaagc ggccagaagc 120
 aatctgcttg atggcagagc gcatggatc tccgttcgcc atgcgcttgc tgcgctctgg 180
 gtccacacca cttcaccag tgttagactt tccacctaga cggttcatgg caacagccag 240
 ggtagagtga gattccatcg aaatagatcc gtacgacatg gcaccagtca cgaatcggcg 300
 aacaatctct gtccatgggt caacctgggc gataggaatg ggcgccgct ggtcaaagtc 360
 gaactcaagc ataccacgca gagtgcagtt ttaaatctgc tcgtgggcag ccttagcgta 420
 tgctcgttag gacttgctgt tcttcgtgcg cacagcatcc tggatattgg caatgctgac 480
 gggatcggtg atatgatctt caccaccgtc acgccagtgg tactcaccg actcattaag 540
 accagggata tcgacgatgg cagcagatgg gtaaccacgc tcgtggatgg cgaacgcac 600
 ctgcgcgac agctcaaaat tcataccgcg gatacggctt gcagtgccag tgaacacagc 660
 gtcaatgaca ctgtcatcaa taccaagagc ctcaaaaatc tgagcaccct tgtaagatgc 720
 tagagtagag ataccatct tgctcatgac ttccaggata ccaccgtgc aggaggcctt 780
 gtagttctcg atcaccttct cgtcggagag ttcttgcgga tcaacttttc tcggttcac 840
 ttgaggatgc actccatggc gaggtgaagg ttaataccat cggcaccata accaacgaga 900

acacacatgt ggtggacctc acgggcctcc gcagtctcga caatcagtgc agcaagagat 960
 ctccacttgt tacgaaccaa gtggtggtga acaaggccag tggccaaaag tgcggacact 1020
 gggactctgt ccgcagaagt ggcacgatcg gaaaggataa ggatcttgtc gccttgttga 1080
 atagcttcag tggcggcatc gcaaatacgg tcgagagctt cgatgtaccc agggacgccc 1140
 ttcttcttct cgaaagtgat atcgatgagc ctgactgtcc agtccttgtg gactgtgttg 1200
 atattcttga gggcattgaa ctcggaatg ctgagatag gagaaggaag aagcaggcgg 1260
 cggcactgcg atgggtccat ttccagcaga ttaccctgag gaccaacgta gcaactccaga 1320
 gacatgacga cggcttcacg gattggatca ataggggggt tggtagcctg agcgaaaagt 1380
 tgacggaagt actcgtacag aaggcggggc tgtttggcga tgcaggcaag aggagcatcg 1440
 ttaccatag aaccaagagc ctcttggag tcagctccca tggggccgag gaggagagtg 1500
 acctgctcaa atgagtaccc gaaggccttg aggcgagggg cattctgaac agtgggtgtg 1560
 tcgaggtcgt gacggagatc catattctgc tcaaccagct tctcgtaat agcaggaagc 1620
 ttaacgagct ccttattcag ccaactactg aagtcatggc ggtgggcaac tgtgtattta 1680
 agctcagagt catcaataat acgaccagcg accgtgtcaa ccagaagcat tttccaggc 1740
 tgcagacggc cttctgaac gactcgctcc tggatcaatg cgacagcacc tacttcggac 1800
 gcacagatga tacggtcgtc atcggtcacg tagaagcggc aaggacgcaa accgttacgg 1860
 tccaggttgg cgccacagta acgtccatct gagaaagtga agagagccgg gccatcccag 1920
 ggtccatct ggcaagcagc ccaactcgtaa aaggcggcct tggccgggtc catagctggg 1980
 ttatctgcc acgcctcggg aatcatgatc ataacggctt caggaagaga aaggacgccg 2040
 ttgatcatca gcaattccag gacgttatca aaggcagcag agtcggaacc gccgtcttcg 2100
 acgataggga gcagagactc gagctcctcg ccgaaaatgt cggacttcag caaacctcgc 2160
 cgagcacgca tccaattttt gtttcctcgg agagtgttaa tctcaccgtt gtgagcagcc 2220
 catcggagag gctgtgcacg gtccaagag gggaatgtgt tggtagagaa acgagagtga 2280
 acgagagcaa agtgacctc atagtcaacg ttcaccaa atcgtggtagta ctggtacacc 2340
 tggatagggg cgagctgacc cttgtacaca atgttgcggt tgctgagaga gcacaggtag 2400
 aaccagttgg caaggcaatg atgtgcgtag ccgctttcgc aggacataca actgaagctc 2460
 gaatgtcttt gtgtcaaatt gctctggatc agttatatca ggcttg 2506

<210> 2234
 <211> 2777
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2234

```

ctgacccgga atagtcagct ttcgcgcgatg tgagaatgaa catccagtaa cataacttctt 60
atccttcaag aacaactgta agttaacctc gaagaccgtt ttgagtaagc ccatgttagc 120
tccttggtat agaccaactt ggtgctccca gatgttaaca atcagaacct cactagtcgc 180
gagcgcaaag agagcgctct tgcgctcgaa gtcttggtct tcaccccgct cgcgtccatc 240
ggtaccctcc acatccatca ccaagatgtt atcgggccatc gacttgccgt ctccgttttt 300
attctttgat agccaaatac ccttggtggt ctgacgtcgt tccgtttcgg ccatgacgga 360
gaagtgggta ccgaagaggt ggttgagaag ggtagacttc cctgtcgatt gagatccaaa 420
gaccgagata agatggtagt tgaaacctgc aggggtgaca ttttcgaagg ttagatactt 480
ggtcaggttc gtactatagt atgactgtta gctcccatcg ccatacaaag cgaatgccgt 540
cgacgtcaca tcaagccgca ttgogcacia acatgtttgc atgtcagaaa gaacggaagg 600
cataactgaa ttctttattc tcgtcgatta cttggacacc atgctcatat gtcgtcttat 660
cgctgctgtc gctgccaatg ggggcaaaat ggccattggt cgccatggtg tgagaacgcc 720
gtcggagagt tatccagatt cccaggaaca gttcctaagg caaggattg tcgttctaga 780
atctaagaga gctccaacaa gcggaagagt atcgttgga gtgacgagta tgcgaaaacg 840
gtcgtgatgt taaggagaga cttaggaagc ttaacgcagg gccgatcggc tgtaaggaga 900
ccgaaagttc atgtgcaaag aagtaagaaa aggtcactgg aagtgtcaat cacaagactg 960
gcagccacac agaacgcacc tggaggatct cgtggtgccc ccgaagtga ttgtaaggcc 1020
aggttggtcg cttgcaagtg gatggtggat cgtgattccc cagcctcaa ggagtccagg 1080
cgcaactgtc aggtggcagg aagtaggagc gttctggagc gtcattgaag cctgattttc 1140
aaggccacaa tttatcatgc cattctagta ttagcgtatt cctcctccc acctccaaag 1200
gtagaggatg gagtatggca taaggagacg gacagcaagg cccgtatctg ccctgtagaa 1260
tgatagaata gggcaacatg atgtggaaag atatgtggta acaagactca ctgatcatcc 1320
aattcatatt caaacatggc tagaaacagg agaggagagc cgaataaaaag attctacata 1380

```

ttgaataaaaa tacaagtata tgaatataac actaaacgcc ggagcgaccc ctttcccaat 1440
 gtaatgtact gaatccattc acggcatcct gactgcaag tcgttattac cgagagatcc 1500
 agccgggatac ttttcaagaa gtacaacgca gtcgtttact cctcaatgac gcgcgtgatc 1560
 agaccggtag caacggtacg gccaccctca cggatgttga agcgtgacc agcctcggcg 1620
 gcgacagggc ggttaagggt caaaatcatt tcgacgttgt cacccgcat gacacgacgg 1680
 cttaggtcgc catcgaggaa ggtgagatca caagcctcgt ctaaaccattg gttagaacga 1740
 cgatgatgcc cgaagatggc attcaaattg ttcgagaaag acttaccggc agtgcggtatg 1800
 taggcctggg ggcggtagt ggaaccgaat ccgctgcggc ggccaccctc agcctcggtc 1860
 aggacataca tggagaccaa gaacttcttg tgggccttga tagagccagg agcagcgatg 1920
 accataccgc gcttgacatc ctcacggcgt gtaccacgga gaaggagacc ggagttgtca 1980
 ccggcacggg actcgtcaca ggacttcttg aaagtctcga tgcggtgac cttggtcttc 2040
 tggacttcac cgccaccgtg gatctcaatt tcgctatcct tcttgagaag accacgctcg 2100
 acacggccgg aggcgacggt accacgtcca ggaatggaga agacttcctc gacggacatc 2160
 aggaagggct tatccaagtc acgctgggga gtagggatcc aagtgtcaac agcctccaga 2220
 agtttgtcaa tttgctcagt accaatttcg ggacggcggc cctcgagagc gcacaaggcg 2280
 gagccgaaga tgataggggt ctcttcaccc tcgaagccgt aagtgttaag aagctcacgc 2340
 atctccagct caacgagctc caacatctca gggcatcga cggcatcgac cttgttgacg 2400
 aaaacaacaa tcttctggac accgacttgg cgggcaagca gcaagtgtc acgagtctgg 2460
 ggctgttgc aagggtgtg tcagctgtct gctacttcat ctcaactcgt gcatttgggt 2520
 tgacgtacat ctgtccatcg gaagcgcaa caacaacgat agcaccgtcc atgttggcgg 2580
 caccagtaat catgttttta atgtaatcgg cgtgaccggg acagtcgacg tgagcgtagt 2640
 gcctgttgtc ggtcgagaac tcgatgtggg cggtagagat ggtaatacca cgcttacgct 2700
 cctcaggagc cttgtcaata gcaccatact caaggaattg ggcaagccct tggaggccgg 2760
 tgctggtatg gcacggc 2777

<210> 2235
 <211> 1549
 <212> DNA
 <213> Aspergillus nidulans

<400>

2235

aatacgccta acggatctaa acccctaagg cttcattcga aacaaagtgc gatcctccag 60
cgcatcgata ccagttgcc tgcctgatcc actgaaaccc tgcaacacac ctgcccata 120
gccgcagctt ctgctggagc tgctgctctt tgcgtctagc ctgttcttct gcctcacgta 180
tcttgcgtag tatttctagt tcggcgcgtc tcttcagctc ttcgagacgt cttcgttcat 240
gctgtttctt ggccctcgccg tcgggctcgg aagcttctac tggcggatcc ggtagctcag 300
cgacagcatt ttcagctgca cgttcttcac gaagaagctt ctggtactgc ttctctgctg 360
cctcgggggc tttcttgtcc tgctgcaatt ggtgccacac atcgtctgcg acgccgtcat 420
ctcgagggac aacatccgaa caattttcgg agcgcagagc ggtgggatct tcctctttct 480
tttcttcgtg aagcgtgggc ggatttgaaa ctgtagtcaa cactggtggc gccgttgtac 540
ttccaaaaga ctgcgcttgt aggaggtcgg cgaactggatt tctcagcgcg gactgcttcg 600
cttctcggtt tgttcgttca gatatcatat ggtcaacgtg gcggagaata agctcctcgg 660
tcacggacac gttcttggtc tgcattctct ggatagcgac tcggaagatt gtctttgcga 720
gcgtctgaat atcacgagca ttggcccagt tcgcggtacg gatgagtac tggaatctat 780
tcaacaactt cttttggaac aacgaacttg gagagtccag tgcattcaga tcgaaactgt 840
tgactttggg taagaagtcg gcctttcgcc tctggagtaa cttggtgaga agctggaggc 900
aatcggccgg agcgagtcca ttgaattcga gttcctctgg aaaacgacta gtgaggccag 960
ggttgatggt cataaggcga ttgatcatat tgcgtaccc cgccagaata atgataagct 1020
tttgaagaa cttgggctta gtgatgcagt ccaccatttc gtccatagcc tcctttgcaa 1080
attgcccttc tgcgagtcgg tacgcttcat caataagaag gaccttccca agcgactttt 1140
ccagcagttc ttgcgtcttg ggtccagtgt gaccgatata ttgccctatt agatcggttg 1200
ccgagctttc gataacctcc gcagatgaca gcagacccat atcatagtac actttgccca 1260
tcttctggc cgtgctcgtt ttgccagagc ctgacctcat tagtaactgt atttcgaagg 1320
ctcctgctga cttacctggg ggaccgcgga aaaggaagtt gaaagggacg tgctccttag 1380
ggtccatata caattctcgc atattcttga ctgactggcg atattcttca agcttactga 1440
tgattgactc acaccaaca atgtcccaa cagcatcggg atattcgtct ccgaacgaac 1500
gccacgatca tattcaggat ccaaactctg cggttcaggt gttccagcg 1549

<210> 2236
 <211> 3004
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2236

```

taactagcaa ctctcccatc cagttctctt caaaccttgt tgacggtctc caatccaaca 60
ccgaagtacg tcgtcctaca ttacaatatc tctagaagcc tcactctgtg attgaagctc 120
agatgaagtc gctaaccgcc caacagaccg actccgcccc cgccaaatcc ctggaactag 180
aaattcagaa ccgcgttgct aaagaactcg agcgtctccg cgcgcgcgaa caacaaactc 240
ttgccgagat tgagaagcga ctgtccgaag ccaaggacac cggcagcttc gcctccgctc 300
ccagcgcacc agccgtaacg cactatcccg ccggtcact agacctcgac gcaccccgga 360
tccccttcgc cggccgcgag tacgtctctc cccctcctgc tgctgtcgaa gtggccgctg 420
tgaataagga gctcaaccga gagtctgtga actcagaaat tgaagagttg cgcgttaagc 480
tcgaagggag gaagaagctg gcggagttgg atgaggggtg tgcaaaggct caaaaagacg 540
tcgttagctg tttgcgcttg aatgatcggc ggccgctgga ttgctggaag gaggtagctg 600
agtttaagaa ggaagttgcg cggcttgagg agggatttgt ggatcggatt gtgggttgaa 660
ttggtatgat ctggcgcatt cgatatgatg ttgtgtgaga gcgctgtgag accaagagca 720
gcaggcgcgc tttcgaaaat agatgtgctg tttatttata cttgtattcc tactattcac 780
ttggggttat atgcatcttc tttacgtcta atctgcacaa gcatctctac ggcagcgaag 840
ctgaggctct ccttgatagc cagctcaaaa tgcacttgca tagctaccta aatctacggg 900
tatcatacca gtaatgtaca ttatcactct tctagctctc tctctcagct tttgaggccg 960
atatactcaa acaagctccc aggaagctaa acgtccgaca ctctcacccg cattcctcac 1020
aatacacata ttcctctctc gattcgtccc ctctgtgcct ttcgttgat accgcacttt 1080
ggacactaaa attgagccaa tgcccgtacc ctccccctca gcgagggttaa agtttcccg 1140
cgtgatgaat ccgatgagat cctcttcaac tgggaccggc aagtgttctt tgtggattga 1200
ggaataatca gaatcaagca ggatggatgc tgcaaggcgc tgtctggtag atccagtgtc 1260
ttcctctgac ttagctttat ttttggggcg caaagtctgc ccagaggtct taaatgatga 1320
gctcttogac gttgatgtta atgccgatac taacgaaagc cacttctggc gaaggtctgg 1380

```

gtcattcgag gggagacgat aaatacgtgc acgtggtgca ggatggccac gggaatagag 1440
 ggtgagtttg actgttgca gagcggactc gtccacactg accgcagggt tattgatagc 1500
 aaaattcgcc tcggaatatg gcagttgatg gattctaaat ggtggttcaa tagccgtctt 1560
 gtctctcttg cacacggtct tatctgtttc cgagccttcc tctttctccg cgtttagagtt 1620
 cttctctctc tgatctttcg cagactcggt atcacaatgc ttaacaagtc tttcccagtc 1680
 acaagcccag ccgcgcccac tttcaccctt ctgaccattg aacaaatcga gagagtcaaa 1740
 ttcgactcga cggcccttag gccgtccttc ccactccttt tttgctgcct cgcgttctcg 1800
 tagacaccat ttccagcctg catgggtgcc tgggaaatcg ccagggaacc aaggctctcc 1860
 agtttcgaag aagagttggt gctgttctt aagtccgcca aaccgcggat tgccgccgct 1920
 tgatagtggg tagtacatga gggagtacca tatggatggt acgcacttcc aagggagaag 1980
 cacggtccat gtgcctgaga aattgttggt cttttgccga gtactaggtc tctactgcttg 2040
 cacgatcaca gggatttgag ggtcagaagg ctggggacgc ggggtactcg cggggcctgc 2100
 ttctgtccgt cgtcgggtta tagctttttg gctgggaagg ttgcggatag ctgctaactcg 2160
 gaaacggcgg tcgaataggg cgggggaggt ttgggtttca tcggcaggcc atgtggacag 2220
 taacatggcc aattcttgca ttctccggtc agagaacgaa gctttcattt ttttgggagg 2280
 gaagtgaaga cggggatctg atatagagaa tgaaagaaga gcattctgcg gcagcgacga 2340
 agggttcgtg actcccagaa gagcattcca tacgccctct ggactatccg ctggaggctc 2400
 accctggccc aatggctgta ggactgcaag tagcgcttca gttgaaccgg ggccggtgac 2460
 gtcgatgctg ccaatctcaa agcgaaggtc ttcaaccatg accggcgggc actgcttctt 2520
 tgatatagcc agcagctcgt tccaaagccg caagaacgca gatggatgga ctctgacaaa 2580
 catcttcgct gtattcttcc gcttctgctc gtccttggtg gtatcgccat cagcatcgac 2640
 catctccgtg tcttcgatga ctttacgagc gcacgaatg agagtaacag gagcaatagg 2700
 ccttcgctga cctcggact caaaactcca cgcggaaga cttcttacac cagctctcca 2760
 tttctttcct ttggcaccac aagcatcgtc tcccacgact cctacagttc tgagtacagt 2820
 ctccaaggcc gcctctgtcc cttgaagctg aattgtggaa atatagctca tgtcccatgc 2880
 caccgcaccc ctagcaccac tcgcccgatg tgtaggtcta taactcttct ccgtcggcga 2940
 cagtggcagc gcaaacctcc acaacggatc gttcgaggct gtcataaggg cacgttaata 3000

aatg

3004

<210> 2237
<211> 4636
<212> DNA
<213> *Aspergillus nidulans*

<400> 2237

gctccggagt tgtcgccgcg agtccctcct tcggcgccgc cgcagcatcc agcctaaact 60
cgcttgcttc cggagccggc gtgatgggta tctctggctt atcaagcgca accattgtaa 120
caggcgggat ataccagtcg ttatcgcaaa cactccaccc tgggtcaata tctcttactt 180
cctcaggaat catcagccaa ggcatatagt cgtcccgaat catggtacag gtattgccgt 240
ccggaatcgg gcattgctgg ccaccggcgt actgcgccca tgggatcaat gactgagtat 300
agtttccaat ttcattgtggc atgaactcag caaaattgaa aggatacgcg gttcctataa 360
ttgggtatatt cgcgttccgg tgggtgcgca tcgacgtaag agtggagggg tgcagggaaa 420
cgatgggtgtt gctgtgggtcc acgccgcatt ggcttcccg atgagcgcg cggttgctcc 480
aagcgtagat agacgtgaac gacaggtaaa cagtgggtga gatgaaagtc tctccgttca 540
caatggcggg gctgggaccc gaggcaggga cgggtgggtcc gttctgcaga cagagatcac 600
cagctccggg agtgacgggc cagtagaaga gagttgctgt tccaggaaga aagtggcagt 660
tggagcaagg gttttcttct ggatacgtgc gagcgggtgt tggacagtca aatggtggga 720
tcggactgtt ggtgtcaccg ggtgtgggcg tgactacgga atcccgcag gaactggaaa 780
tgctcgagta tgtctgccag attgaaacac agtcagtcgt ctccagagtg cagtctggag 840
tgaccgacgg ttcacggtag aaggtctcag tgtaagtgtt agttatgtaa ctactggcgc 900
atggaccagt gccgggatag tacgctgtca ctatttcctt ggggcccaat gcacgaggcg 960
cgccatcgca gagggtggta agaggaccag aatgggtatt cgaccacgcc tcgggtgaaa 1020
ctgaagtctg acaggctcct tcgctcgtca tatacgacac taatgaaggg cttgtggccg 1080
tgggccctaa agaccgcagc tcggtagacc gccgcgcata ctcaacccaa gcggcattgc 1140
aggtcacggc ggatgcgcta ggtccggttg tgggaccata gaagtaatcc gtggacgttg 1200
gccaaaagat tgaagtgttg agtgtgatga gccattgatc gctgggtgatg gctagccaaa 1260
taagtaagtt acatgctctc aatccactcc agcgaaaagg acttaccatc ttgggcaata 1320

gccgtcccgga tccagagggc aaggagcaac attgtttgta agatgagggga cggcagttca 1380
 gagtagcaag catggctgat tataactgtt tgcggctctgc tagcggctgt gggcacgtcg 1440
 aattcctgag gcacctcatt ggttgagccc tacagagttg accttacaca gtactcttgc 1500
 agttgcaactg caccagctta ctatgggtggg tgttctggag aggtataact gcatgacatc 1560
 gcgagctcga tgtcttctga gagggcaggt ttgactgttc cttcggccta gatgcacggg 1620
 tctcccgctt ttggctgcat ggtgtctggc gtgatgcccg ggtccctgaa tcgcagctgc 1680
 taatccttcg gtgcagatgc atggctctcg atgggtctga atttctgaag acagataaga 1740
 tccactgggg acagatcttc cgtcgacgct attccaggtt aggaggggtc ggcagagggc 1800
 cagaccctaa gtgccttgc catattaacg attgcaagca gacgcgacgc tactcactta 1860
 cagtagcaag agtaatacgg agttcggaag aatctctccg ttggaggtca tcttataaga 1920
 aattgagcgt gcgtcgagca atctctgcaa ccgcgacaga ctgcagggtc tgattgacct 1980
 agaagggctc gaatatggtt caacgtgttt ctagagtgcg tcatgatggt atggggctct 2040
 cgcacaaatc aatctcgatc gaataggggt gagcgatcaa tttcgatctg agaagagtgg 2100
 gatgaagaat ggatgggttg gaagcgtgtt tcgtccgcta gtgcgaattg tcgcagaaag 2160
 tccaattgct gattaggacc cacgcgacag caaggcgccc actcgccggg ttgctttccc 2220
 ctaattcgtc cagccaggta tagaaggctt tgtaaatcaa ggttccagat cctgaggagc 2280
 tgggtggctgc ggaataggag tcttgacaga aaaatgtgaa gaacaaaaag gagaagttgt 2340
 attgctcacg ggtatagtag catgaaatta agccgacctt atctaaacat gatatcgcta 2400
 gaaatgcaca ttattattaa aagcagcaag aacttcaacc tccgtctaag tctgcactgt 2460
 gaaatgagat catttccgtt ttaaaagaaa caaagaaaaa gaaaaaagaa aagaaaagaa 2520
 aagagaaaaa ccgttcaagg caaaccttg ggctctgcag caatcgccg ctctgaggag 2580
 gcgtccccag aactcttctt ttccatcctg ctgtagtcgc ctggtttggg agaccggtta 2640
 ggaatatgga accgtttgtc aatccggcta aaggtaaca agctcaagat catgatttca 2700
 agtgcaaaat tgaagacata aaatgatgcc ttggagtgat accaagccgg gttggagatc 2760
 ggccgcgccg gactccagag tgtaccgcc ttgaaaccag caatcaaaat ggacaggcac 2820
 gttgagatgg tgatgataat gatcttagcg agcatactgc cctgtccaaa tgactcctct 2880
 tgcttggacc gtggtatcaa gaccgcggga ataatatgga gcaatgggag gcaagtgaag 2940

acgagaaggt aggtgattgc agcaagctgc acatcgcggc agtcggcgcg cgtgcccgga 3000
 ttgagggagt aggaagaaac cacgatcgcc gtaatgacca tgatcaacgc agcggggatg 3060
 agatagtaaa acaacttgct gccgatacgt gcgatcggat gccaaccgat atgggggttg 3120
 ttcgcccgga ggatgcgctg ggcgaggatc agattgataa tatagaccag caagacaccg 3180
 gcattgacaa agacattggc cgcaatggca agtcgaacgt tatgttggcg gttggcccaa 3240
 actatgcgca gaacaagagt cgtgatacgt gccatacaga aaccaaacag catgcccgat 3300
 aggatgaact tgtgtttccg cttgttgttt ctctgcagaa tcgtcatatt catcactgca 3360
 aaccaatat atatggcgag gagtacggcg cagacgattg tatccgggtt attgctcggg 3420
 aggcctccca tgcctgccgt tggggaggcg taagggccgc cgcgcttctc gaacgaggaa 3480
 ggcattcttc cgtattatcc cgtcttgata ggttttggta gacggctccg atgaggtggc 3540
 aaaagatggt gttgaaaatg tcgctagtcg cgagaatcgc ttgcaccgac tagcagagga 3600
 atatatgtgt catggaggaa agtgctaaat gcgtgaacgg gggcattgag gaacgtccgt 3660
 ctttataaat tcgacggcat ggaagaaatt gaggcctgat ggcagcgaca ttcgcggtt 3720
 ccaacaagga aaccttctgt cataaggcta attattgcgc acacaagatc tggagagtcc 3780
 gatccactgg agaacggcag taacacggct gacctttatt tggctgacta tacagatcgg 3840
 acaaagacgc cgtcggactt atgccagggc cgagtccgcg gtcgccagtt cgtccgtcct 3900
 ccgcgcctc tcccctccaa ttccatctct cttcttgaaa ctccagccac tcattcccct 3960
 tgttacctat cgagatctta tctccatata ttgctgaatc tattttagct cccacgctgt 4020
 tgattcctgc attgtgtaac ggcgtccgtt tcggacgaat gccggattcc ccacgtggcc 4080
 ggaatgcttg caccgcatag tccagccgca ggtggcattc ggaaaggac caagagctgc 4140
 accgaatgta cgtgcttcgc gaccaggtag cagtggctgt ctacttatta actgatgtcg 4200
 aatctaggta ggagaagaaa agtccgctgc gttcgtatcc ctgaagacgc gccaacatgt 4260
 cgtcagtgcg cagaacgcaa caccgcttgt ctcgctcaga cgtccagttc ccgtccacga 4320
 caagcgaatc gattgccctc ccgataccgg attgcacagc tagagtctca ggtagtcgg 4380
 ttgaccaaag ccgtcaacag tattgaggtc aagcttggag gcaaccgctc gatccagctc 4440
 gatcagacgg tgaccactc ccccgatcc gacgagtcgg acgcagagtc cactgcatcc 4500
 gagattttaa ttgcggagga gccttcacat ctgcgctcgc tttccagaa tgactggcat 4560

actgaaaaca ccaaccgccg tgacgagcag ctgcgaggac gtagagtaaa agcgtacgcg 4620
cacctcccta gagagt 4636

<210> 2238
<211> 1469
<212> DNA
<213> *Aspergillus nidulans*

<400> 2238

atcttcgagt cggcgatggg tcttggatct tgggcgattt cattcaagct ttgcgtttgt 60
caagtccctga gaatgtttct gcttgtgcga cggcgagaat tgctgagaca taccagcacg 120
ctgtgctcca gctgttatct ctttcatgag ctctgctgtc tgatttgctt tcgggttgct 180
ggagtgggtat ataaagtga ttgttcactt tctgaggtat ataatatcca agcaggagcg 240
actactagag aaagactact ctccgtcaac ttgagcaggc tttttgaaag agctactgcg 300
acggggacta ggatgtgcga aatattctag atctgtcctt atattaccgc aatgtggaca 360
tccgccaaag aaaagtagag agaccaatct ggcgattgca gtgaaacaac agtacttgaa 420
aacctccagt cagcagtatc accggaaata cagcacgcca accacctcga aattggctcg 480
ttggcctctg ggggcacagg agagaccctg agaaactggc tggcttgggt ctcttgcctt 540
ggggtgggtat cgggcatcca cagtaacctg catcttgta acgccagaga tgccaccctt 600
gccagtgcga gtgacaatgt atgggaacta taatagcgta ttgaccagag catttccagt 660
gtcatcatca acagacagtc ttccaccaat acctaggcta cacagtcctt ggacagcctc 720
tcgcgaggtt gagcagcaca tttgtcgttc cagatgccgg ctagcgcaga tacgtgctgg 780
agatgtgctg cgaagtgatc ggtatgtgga gggattctaa attctgtcta ctgatagact 840
agaagtaata cgcgcacggg ttatgcttgt acctagagtc cttcttctct tcgctctttc 900
ggctttcaca gcggcatcca aacagccttg gacccaaagg catgatgtgt agacgttgaa 960
gatggttccc taaaatctg gaatcgatag ccagcctgct gcgcaggga ccacggtaaa 1020
tgctgtccaa gtgcgtttac agtaggtgtc gttgagcatg gcatcaaatt tttgtgcgta 1080
ttaacggtca aacccgcca gttaagaaa agtcgtgagc tatctcatgt aaagtttgcg 1140
tagcatggat tttcagcctc tggaaggcaa cagcttggtg agccttagcg actccaagga 1200
gaacaatgcc ccgaatgtcc ggggaagtgg atgaggctta agagtccgcc cggggactat 1260

acatcgcccc gttctacagg cgtactccat agacttgatt atatcgagcg agtattctcg 1320
 agcgtgtatt cttcaaagtc tccagcccac aggagagctc gcacgccggg tctccaacac 1380
 tacggaaggt caagcttgga agcattttga agccatgaaa ggctggcgca ttcataatttc 1440
 ggggtgctct caatatatga tttagttta 1469

<210> 2239
 <211> 1623
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2239

ctatgctttt ctttccaatc tgaaccgtgg ccgcgcaggg gtagcgcacg cagggctaca 60
 actatcttgc cacagtttac gtaggaagca gacttggttg gccagttgta ggggtgaagca 120
 tgtaaaatgt tggcataggt tggtccgatg gcgatgttgg tgccgattgt gaggccgttt 180
 aagcataagg ccagaatac gttggggaaa aacagcagtt caaacgtttg ctgtgcccaa 240
 caggacgatt agccgctacc catggatggc aattcgaagt gaggttaaaa tggcttacct 300
 ttaagacgtc ccaaacaagt cccaatccg gcttcccaac ccaaagccgc atatcgact 360
 tccatgttct ggcagcgtac cgctcaaagt caagaggtgg acgctcggcg catactacct 420
 ccacgcctac tttggcatct ccatcttcgt ccgaattacc ttcttggaaac gacgcaattg 480
 acctttcata cttgggtttcc gggaggaaga agaaggccag cactagctgc gctccagcca 540
 gcgccgcacc aagaccgtac caccactgcg gcgtgattgc gttggcgatc tccccgcaa 600
 agaggaccca aacagctgtt aggctaacct ggatagcctg ttggcccatc agagctttac 660
 tgcgttcgtg gaggaagaag atttcctggg tgatcatcgg aaccagggcc tactctgcc 720
 ctgctgcca tccgactgca catcgggacc agaggtgcca ttcgtagttc tcttgggccg 780
 cgcagaggat tgctccaatc accagaacta ttgtcgaggc gagcagcacg attcgccggc 840
 caatgccgat ggcaagaggc atgccaatga ggttgccgat gccctggcc ttatagtcaa 900
 tatctgccgc caatttcaag ctttgaagg gtagtgtaca taaagagagt agggtaagtc 960
 attaagtgcg tgatatcggg gtagcccttg ccaactgcct catagcctgg aatgtataag 1020
 cccagaaggc cgccgaagcc gctgacgagg gcgaggccga gtgtcgagac tatccattgt 1080
 caacacagag atacgtaaga gtcggtgtat ggactgacaa atccatatca caaccagaac 1140

gatccacttc tgccagatag ccatgttcag ggggtctacg atgtgttttg tcagcacgcc 1200
 tggcctgagg gcatgggaaa ggagtgtaat accttgggga tctgctgtcg gcgtcggaat 1260
 atacaccacc ttaccgtccg tgagcttcac cgtcccatg accttcttct tgccactacc 1320
 gtcggtcgcc gacacccttc cgtcctcaat gtcttcgaca taggtgatgt ctgctttgtc 1380
 tacctccgtc attgtgagag tttcctcttc aggaaaaact gcagttgttg ctggggggta 1440
 taacacgttg tgctgggagc tgtattctta gcaggtgcta cggaagggtg gggatatgcc 1500
 tatatattgc agtgccatga atgccaatga gtcccagcct aagccacagc tatgctcacg 1560
 tatgtttcac ggagtattcg aattcgagtt gggtttagtt ttaggggtcg ggatggcaca 1620
 tgt 1623

<210> 2240
 <211> 1295
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2240

tcgactaccc tgccgatgct gctgtatgtc taacccccct tccaagttaa gcgtaccgaa 60
 ctgacggatt cagggaaatg ccgcacttgg aggctccggc gggcctaaga tggccagcct 120
 cgtcgaaaca gccctcaagc agtgccctga cactaagatt gtcctaggcg gatactctca 180
 aggtgctatg gtcgttcaca acgcccctc caagctctct tccggccagg tcgttggcgc 240
 tgtgaccttc ggcgaccctt tcaagagcca gaagcccagc aacatcgacc agttcaagac 300
 tttctgcgca agcggcgacc ctgtttgcct gaacggcgct aatgtcatgg ctcacctttc 360
 ttacggcaat gacgcccaga ctgcggccca gttccttggt agcgtctgtg gactgtaaag 420
 tgctagggct gagtgatatt ggatctccgt attagacctg tctagcaggc gttgttcttg 480
 ttattgaatt tataatgggc ggtcatggat ggaatcgatg attgtatggt tactagactg 540
 tgttatgacc tctttggcaa tcccttctgc gtgtacatag cacagaatta atctgatgca 600
 ttgcactgta tccaacaaac tttcccttcc ctttcttca cccccctca agtcctcatc 660
 tacagctcag gccataata cacccttcc tcaaccgcct gcacgagcgc ctcacgata 720
 gagatgtatt ggtcaaagtc tgcataagc tccttcagca agattcccac aacgcccga 780
 aagaccacgc ctccctctc gttgagatgg gtgttgctgc cctcgctcag gttatacgta 840

tgcaatcct cctcccaat ctcatgaca tactccctag aagcgacatt caaatggcc 900
 cagagcgtcc ccgtctccgt cgcggcctcg atcgtaaata tccgcacgtt ctccaaatca 960
 tccttgacga gcccatcgtc tccgaaattg cgtcttgta gggacgtcaa gaagatcggg 1020
 atcccaccgg caccgcgtac atctgcatcg aactggacaa gattatcctt gaatgcagcg 1080
 agtccactct ccgtcttctg gtcgttggtc ccgaattgga ttgtcacata gggcgtgcac 1140
 gaccgcgttg cgtgtcaaac ggcttcagg accttagccc aaaatccctc attccggaag 1200
 gagaacgttg ttgcgccggg aatcgcccga agtttggcct gttgagccac cgggtctaaga 1260
 ggagacgaaa gcttttgccc cacctacaat tgggg 1295

<210> 2241
 <211> 2455
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2241

agccgccatc cccctcggag aagtcgatca acgtatttcg caatcatctc gccggtcttt 60
 ggattgtccg taccgcccgt ggcgctcgac tttctgccct tgttcatgaa gctttcgaag 120
 gactcccga gggcatggcc gagggcctcg ttgcgtcgaa acgattcatt ccagatgtcg 180
 tcgagttgct ttttgaagct cagtaggcgt accaccatgt ccgcttcgct ctcatcgaaa 240
 acaattccag taccctcttc cacgatatat gtgctaaagg cgcctttcaa tttggctcca 300
 aggtccctcc gttcaagaag cgtataaagt tgccctaggg caatcttggt ccctattcgc 360
 aacaaaccga gaacatcctt ctggctcaat aagacgctct cttgatctgt tactagggtt 420
 tgategagtg actcagacag tttttgtttg gtcgtccgat tgaaagagaa ctgttcgcat 480
 cggttcatct cgcgctcgat caggcgatgg ctgttctcca catatgacgc cagatcctt 540
 gtcgcctcct gctgagccca tagagagaga acgtccttgg accccgacgc gagcacaggc 600
 tcgaagccag agacataaac gtcaaggctg tgaaatagct caatggcatt ccgtagcaga 660
 gaagagtcag cgacgatacc gttttcgtcg ctgcgatctg ccgaaacaag atcacaggct 720
 ccctgaagta ttttttctcg cagtgtggga tcagagtata tgtgctgtcg gaattgctgt 780
 aggcccatct ctccgattac aggatgttct ttggagtgga ggaggaagga ttgggtcaagg 840
 tagtagaaga tccagcgcac ggtaatctat acttagttag taattccaaa caaaaaaaga 900

gaagtctaac gtaccaacat tgactgccac tctttccagg cctcaaccac agacctcagg 960
 gtctcaatat tgtatgccat ttgtgccttg tcgaccaatg agccgtgcaa ttttccggta 1020
 acatgttgtc gacatcgctc ttggagccgc tttgccagaa tagtagctcg tccttgacga 1080
 caaacatddd ctgccccddd gttaaagctcc tcaagtgaag tctccggddd cctccgctg 1140
 aagatcgctg acaatgccgc atccaactga cccatactt tatcgaaata cgaatcttga 1200
 ttcaaccggg gccctgtgcg gagattcttc accacaagtc ttctcgcgcc tgtatgcggt 1260
 gtaaagtgtc tctggtgcga cgaggtcccg gggcgagctt ggagagtgga attcgacaaa 1320
 gtcaaaccac ctgtgttcgg accattcggt ttccggtcag cggttgagaa actatacata 1380
 tcgccggact cgggctgggt cgctgcgatg gaggaagaag atggtcgaac tcgcttgttc 1440
 gttgggggga ggtgtcgtc gtcttgttcc tgtgttgat tctgtgcttg gttccgggtg 1500
 aggagctccg agatagtcgc ctgctgatgt cgaggttgtt gagagagttc accttgggtc 1560
 ggaaacttcc ttttgccagt agctttgcgc ttaccgctcc tctgttccgg gggggatctc 1620
 gagttctgct gcatctaccc ggttctatcc caggatagga tgacgaaggg aaacactcag 1680
 agttggaaaa atccgaggac agttcggacc acgaggacca tcgccgctag cttccagttc 1740
 tgagatgtct tgatatatgg tggtttgatg ctataggag ctggtagtgt gacgaagaag 1800
 ctgggattga gggacctccg caacgttcga tcccagtcgg agataaagat aataccgcgc 1860
 ttgatgacat aagctgcatt gcggaggggc aacctcggct ggtaatacgt tacttttcta 1920
 cttaatggac ttggagtata gtcatttaag ttcatagtta tttatggaaa acccccacta 1980
 gaacgtataa tatagcctgt cccaatatgc ttgataccgt aaatacacca cagtcgttca 2040
 acgtcccatg caccgtcttt ccattgcaaaa cccgccctat gaaaacagct tcggcccaat 2100
 gtgtgtctcg acttcgtct cttcagcctg tcgcaaagtt agatcttgaa ttggaacagt 2160
 gagcacaatg acctacctt aagaagtgtg tagccgcaac aagggccgtg tatgacttcg 2220
 caatgctggt aagtgcgtca tgggtgtcgg gagcggcgga tccgccgatc ttagcaaagc 2280
 gcttgaatat gcctaccatg ctctgcctgt tctccgtcag gaaggcccg gtttgcctca 2340
 tcattaactc gttttgtaga ccacgggaga atgttgccgt gacaataaac cgcagtacag 2400
 aatcgagtag atcgtagtat ttccggaggg cagcggcggt acaaagtctg ttgcg 2455

<210> 2242
 <211> 2828
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2242

```

tgacaattat tttgcccaact tgctggatcg gcgcttcctg tctgatcccc cccctgttcc 60
tcaatatcca tgggctgtcg ctttgaggga accgctgaat gctaggcttg acgctaacaa 120
tttggaatct cgatttccgc tttggggcgg taatcttgtg gcggcctcat tgatgatgct 180
ggacgtatgt agatgtagag gtacagtgc gatgtagata agtgggattc tagggagcaa 240
gggaaccatc acatcactgc gaacctggag cctgcagctc cgtgtcaatc tgtagcagag 300
agttgtggat aaacgcagtg accatggcca agtgggaaga gagcgctcga gtgtcagttg 360
ggcccccttt ccttgcatat ccttggttga gttcagcttt tccccatcgt catcgctcgtg 420
ccttcgacta cttgaaccgc acctcctgct gtatatttct tcctatatcc ctccacccat 480
caacgtcgac aactggcccc ctcccttcgg cttgggttcc tccaactgtt caactcttct 540
ctccttacca tcatcatctc ccctcaccaa ctccaactat ttcagattcc gcttgccct 600
ctcgtcgggt ggtacaataa cgcttgtaa taacgcttgt tacagccgcg ggccggcttc 660
tgctgtgcaa taacacattc cacatctacc accttctgct taccatctac aaccaccact 720
cttcatctct cagccatccg gcccaatccc actcgatcga attgggtgct cgggtctcgat 780
tcgcttagat ccttttttct atgccaccgg acctgaccg gaggcggagt tctaatagaa 840
tggccattcc ttacgcaacc gggctgccgg ccgacaacca gcctttgccg tcatttcgcg 900
aggtaagcgg gcagtccttg tttgctagat tgtggtttgc cggttgtcag actagaccag 960
acgaatctag cgggcgagca ggagcagga agatgtagta aagatgctga ctgctttaaa 1020
agctcctccc accacatctt cacgaagaga tcgaatctac ttcatatatt aactctcaac 1080
ataactctcg gcaaccgcgc gagcgtccag catcatcaca cgaattgggt cttaactcgg 1140
tccaagaga gcatgcttca tcgcggtctt cgcgtcccag tccggtgctc ccaccaatcc 1200
gcgatctgca gtcgtacca gaccgtgcga cgggcgtata tccagacccc aggggtctcc 1260
cgccgccgcc ggaaatcacc gccaggcctg ttggtcccca cggatacccc catgcagcgc 1320
cagccgtgcc tgggtccactg gccgacagga atgccgacgc ctaccgcggc gtgccgcaa 1380
tgcacggtca ggtgcgatac cactatccat cgatggcgta tcagagcgac ccggaccacg 1440

```

cttccgtacc gtcgtctctg cacgcgcctc agtcgaattt cggcattcta ggggattcca 1500
 ccgacgcgag gaacagacgc cgccgaggga accttcctaa acccgtcact gagatcctca 1560
 aggcctgggtt tcatgcgcat ctggatcacc cttatccgag cgaggaggac aagcagatgc 1620
 tcatgtcccg aacagggtctt acaatcaacc aggtaagtta tcttgatcgc ctctaggaaa 1680
 agaactcgac taacgtcctc cagatcagca attgggtcat taatgcgaga agacgccacc 1740
 ttccagccct gcgtaatcaa agacgtactg gcggaagcga cctggatgaa cgacagtcgt 1800
 tgagcgatat ggaacaaacg tcgcctgagc catcacctca tcgaagacta tgatacacga 1860
 ggcaacgtcg agttgaccgt ataccacggc cgaatagacc ctagaaagcg ccgcgaggta 1920
 caattacatt acgatttacg tgcgagatcg gatagacatg atgtcttttt cttatctttt 1980
 gtttcttggt tcttgttctc cattacccca tttcttcatt gtcagggtca gaccacttca 2040
 tcgagtgatg cacgccttga taccctcgt atctcttttg gttaagttaa cacgcttgca 2100
 tgacccgact ttgaaccgtt acgttcagcg atctgcctca cattcttgcc tcatttatcg 2160
 ggaagatcat ctacctctaa taatcatcat gcacttgagg gggtttggtg ttttgcgttg 2220
 ctttattcct catgtacagt acaagcatga tcatgaccgt tatagaatca agatattttt 2280
 tgagagatat cttctccagc tgtagcggct cggccgagac cacagctccc gctgcttatt 2340
 cacatcatga tgacctgagg tgaccagcc agtgcataac cagggttgac gtaccgcaga 2400
 tcaagcaaga tgaccgggtt cctgtcattc cgatgaccga atttgggcag catgcggaga 2460
 aagctaccac gggttcgcgcg agcaaaaaat tgcggtgaaa tgaagcaagg tacagtggca 2520
 atageccgtc ggtagttact ctcggtagtc ttcagtacca agagctgtca cggatgtcaa 2580
 ttgttgatcc aggatccatt gatcgaatct ccaaaaaatt ggtcccagcc acttgggtga 2640
 cagctgaaga ccatcgatcat gatcagccga ttactaatca tcactcagct cgtgagtccg 2700
 ctcagggtca tccgataacg gacgaatgcc aaccacagag aactggcaga ctgagcgctc 2760
 atgctacgag gttgtccaca aatgagtctg gccacaaaca gtacataatc ctggttttgt 2820
 ccaaccgg 2828

<210> 2243
 <211> 931
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2243

caatttcgga catggacgag atcgatatga atgaacggct atgcaattgt acacgcagat 60
tgtcagctgc tgcggagaag cccccagtca aggtgcccc tcagcggcag tggactacgg 120
aaaggtttat ggagtcgaga ctttgataga cgcgatggcg agatggagta gaacagcctg 180
aaagagttcg tatcgcggtat tctccggtac atgtgttctt accttcacg aacgtataac 240
ttccagcgaa tccctggcac tgggtggcgta ttttgaggaa gctgactgaa cgctgcgtc 300
tgactattga gacgcccctg ggctgtcagg cgatgcgggc cgaggccggt gtttctcgct 360
gtttcaagac atctggttca caaaaatatc ctcttctatgc acaaatgtcg caaatgggtgg 420
ttcctaccag gacgggcgag attctgtcgg tagacgaaat gaagaaaatg ggtatggagt 480
tggagatagt gggtagcaag atactatgat ctccagatct tcgccagacg aaccctcgat 540
cgaagcgggg gctggattgg caggagcgcg ggagcgcgga agcttgggac ctggacagtt 600
ccagagccag aaagcaggag ctttagcgta tctcactatg cagcctttat tggttcagct 660
gaagtcgagg cccgccaatc gctgccgaga cggcgcggcg gttctggcta aaattgacaa 720
actgcaggac gactgcaggc atttccggcg ttcccagct gggcccaagc tgggtgtagca 780
ttctgctcga ggtcaatgcc attctcgcaa cgggaactcc gcaaaggata gtgcagtgg 840
ctgagagcca aacggtaagt gtcgacgcaa gtagtccagc gacgtgtggg gttggaagag 900
aggggagagt gcagaagatg gccagccta c 931

<210> 2244

<211> 2358

<212> DNA

<213> *Aspergillus nidulans*

<400> 2244

actcgtcgta atgtctggat ccgggctaag tcgtcgacgg tggaaattga tgcgaacggc 60
gcaaaggctg atgggttggg ctccggctga atatagatca tgttcacgac ggcgctgatc 120
gtcccgcctg ctataaatgc ctggagcata aattttgcat gtccctccgc tgcgtcggac 180
tgttgaaact cataagccgc ggtgagaaga cgaggcaagt gccaagcat gttctaacgc 240
catcctgtaa cgcgggctag ctatataggt gcgatccaga gatcaggctg tggggtctga 300
tcatagtac ctttttggac cagttaggag tatgcttgcc tggacacgct tctcttacac 360

acctcaaata aggtggatgg ggtaggtgta cagagtaaata gccgcgacga tgcctggaga 420
 tagttaagac cggggagcct gatttgtttg gagatacgca ccgaagttat tggccccgcc 480
 tttgagggca cagaagaggt ctgatctca tcatgtgata agcctccggt aatcctcatg 540
 cgggcataca tgggtgtcgt tgaatacgat cgtctcgatc gactcatccc accgttcccc 600
 acagtggccg agccagagga cgtcccattc aagactatac ggcgaccggt ccgtttcccg 660
 ggccctggtc aggttacgca ccgccgttga gatgttcac atctgattcc gcagagcgat 720
 gtcccagtca acatcgtctt ccagaatgag ggccgtctca atctcggatt ggtagacgtg 780
 cttgagcaag tccagatgcg cgacgcaagc tttgctggcc ccgggcgacg gatgctgggt 840
 gtccatgggt cgcctggat gtttgcaaata gttccacca gacgatcgtc cactggtggc 900
 tgtgggggga tctgatctg aaggccctg aggtttgctg cggcatcaag gcccccgctc 960
 cgccatgagg gatgttgta caaggcgaag atttgttgaa actatgttg acggttggtta 1020
 gtcactcacc gaatcaggaa agcgtttcgc ttactcctaa cgtgttggtc ccggcagtat 1080
 cccgtggcaa aatgcagag gtggggctga gttcgggacc ctgaaaaagg tgcaagaatg 1140
 cgaacaggac aagggcaccc gcgatcagat atatgaggcg taatcgagtc ggcatcgttg 1200
 catctttctc ttttcagcct ggagtcgtga aacgaagaga tcgaatttgt tctgcttgt 1260
 tggccccatc tgctttgggg ccgcgccccat aatcatcacg tgattcatat agaaacagaa 1320
 agtgtcctgt cgatctacca gtctctgagt ggcgcaccga tagcgagttt cagagtgcc 1380
 aacgccgtat taaagggtgt ctacggcct aaggctctag ctcttgacct tacaagttac 1440
 aaccgttggc actgtgtcgc agatgtccac cacaattttt attgggcttt caaaaaaaaa 1500
 aaaaaggaaat tagattagcg gtcaaagtaa atcctggata atgccagtaa aaatttctct 1560
 tattttttca ttgggttca tcttagact gatgcagtag gatgtatagt aagatatata 1620
 ttactatata tagtacgata aatgtttgga tatatagtag cttagttcat acttcatggt 1680
 taaaccaagg gcgtcgggca gtgtattatc gtaagcaaca agattctagc tgagtagaat 1740
 gctagaatgg tagtccttgc taaacacttt aatgaaaccg ggcggcattg gctgttttta 1800
 tgttttaagg tttggttaga ttcacgctga tgaaggctct gatatgaatt gtacctgggc 1860
 acgcagagaa tagcaattct tagcaaaata tgaatcgcgc atctccctgc tctggttcgg 1920
 ccagcagtc aactgtctt cttctgcctt cgcctgtgcc tctggaggtc aagactgccg 1980

aggagttacc attaacctct gatgttacac ttacagtaa aaagttgcat gagcattgat 2040
 ggtaggcagg ccttagacca acagaataag caagcaacat gcctctagcc agagctgac 2100
 cggatgatgg tagtatggcc gcccaactct ataatcagcc tatgggtttc gtctacgcca 2160
 agtctggtgg aggacgaccg attgagtatt agcggctatc agcgtacaat gctcccataa 2220
 tgacatctag cacacttget ttctttctgt cattctttaa gcttacaggg tggccgaggg 2280
 cctatcgct agtaggacag cagaaatgta acaaatttta tggatagaag catgtcgagt 2340
 tgtatatcaa cgcaaatac 2358

<210> 2245
 <211> 1141
 <212> DNA
 <213> Aspergillus nidulans

<223> unsure at all n locations
 <400> 2245

accttcacgc acccatttct ggacgccttc agggcctccc cctcccattg ggcgagtaga 60
 gacattggcg caacaactag ggttgtatag ggagccggaa cgacaccaga cacgggaagt 120
 ctggtcaaat taccaagact ctgtgttga gggaggtttc tgtgggaatg aactaaactt 180
 aacatctcga tggttttccc caggcccatc tcatctgcga gaatacctcc taggcaatgc 240
 tggtcttgag caggggaagtc aagactgagc tctccagagt aaggattgac ataaaaatgg 300
 tttatccctt caataatcgg caggtccttg tcatcaacgt ctttcagtgg ccaatcgtag 360
 tcttcccaga ggggatgtat cgagacctct ctcccgatt tcttatcctt ctcttcgag 420
 agcatccaat aaagcgcttg tttctggtat tttcgcagat ccatggcgaa cgatgagggg 480
 ggctgggctt caggcatgct aaagtcgaag gactgcgct tttgtacaa tgcataagc 540
 tggctttgct caagctccgc aggttcctcg tctccgagc cggtattacc agacttcgca 600
 agcttttatg gccttcgggt ctgccattt cagctgctcg gagcaaact tcctttctct 660
 gcttttgat ttcgcatct gggttgcagg atttgacca ctcatctaaa acagtgcact 720
 agagccaccg gccaaagacc cattgccttt tttcccgct agtacctgtc gaattttgag 780
 atacccatt ctgcccgatc cgggcccgcc tcttggtca aaacctctct ctctctacc 840
 ctctgggccc acctttttga accttttaac ccacgcccct acctttttcg gctactctcc 900

acaacgtgag atcttagctc tactccccctc tctactcatg cgctcttctc tactctcttt 960
 ccctctcac ctctccctatc tcccccttta aaagccaaaa caccgccttc cccctctaaa 1020
 acaccgccc cactatattg tccttatact cccccctctt ctctctcttc aaaaccccaa 1080
 ttcccagacc cccctgaacc ccaaaccgc cctttgtaaa ttgccccccc cnnncccccc 1140
 c 1141

<210> 2246
 <211> 2682
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2246

ctacatgcc a ggcctcaa at ttaagcgttc tgacaggtat tagactgtga tcaatggctt 60
 ttttcgtggt tggtaggat ttctattgac agacgctcgt catgacaagt ggccactaca 120
 gattcccaa catttacc a aggcctcttt tcagggcgtt ttattatca agcagatttc 180
 ttggtttgc tgaattaga agaccaaact actccgtacc gtgatcagt gaaccgttcc 240
 agggttgtg cgacttgct tcctaatac aatggacgtt cctggactct caactaccga 300
 ggaaaactgg ccaacatct acacggtgtt gaatcagat aaaataataa ctttgcggca 360
 cttcttgcg ctgcgacatt gctcgacatt gcacctgaat aaaacgcca agtgctctga 420
 atacagttgc accatgctct cactccctgc gccctactat aaactgag acaaatatgg 480
 agattcatga cacattcgt cattgccttt gagtcttgt tgttcttgt cttagccttc 540
 tccactaat ggagagacgt cccgaaaaca tctggtttct aaaagacaaa ggaagaccac 600
 aacgtgcact ttcagcggca aaactcttgt cagaagcaat cagcgccatc cagtccttct 660
 gtcaatcatt ctgtgctttg gctgccaag catcgcaagc caattcaaca ggtcatctaa 720
 aatggatcgc acccataaca ccaccagcca tgggtccgat agttccgaaa cgcctctcaa 780
 gcctacagca tcagcaacga atctcggctt tgaggaagaa aagacatcag cgcgcttttc 840
 gtgtcgtcgt tcagcatcta gctcgtcaaa gggctatact catacggttc aggtttcgca 900
 gtcgaaggca tcccagtcg ataattgttac cgatgtgccg caaccagggc gaggggcgcg 960
 ctcttctacg cgatcatcga gccgggcacc gaggagacta agtgggagca cggcagcaag 1020
 ctcaatgagc gaggtcgagc cccccctgc atttctgggg aaaattggtg tgtgtgcact 1080

ggatgtgaag gccgaagca aaccagtcga gaatatctc actcggttgc agaccaaagg 1140
 tgatttcgaa ggtatagagt ttggcgacaa agtgattctc gacgaagcgg tagagaattg 1200
 gcctgtatgc gacttcctaa tagcgttctt ctcggatggc ttcccgtgg acaaggctat 1260
 cgcctatgca aggctaagaa ggccattctg tgtcaatgat ctgcctatgc agaaaattct 1320
 gtgggatcgg cggctgtgtc tgccgcatcct ggaccatatg agtgtcccta ctccgaagag 1380
 aatagaagtc aacagagacg gcgggccaac ttggaatcc ccagaacttg cgcaacatgt 1440
 atacaagctc acaggtgtga aacttgatgg ccctaccgat ggcacagggg gaggcacacc 1500
 caaaacgaag aatgtcactt tgtccgatga tggcgattct cttatcgttg acggcaaaca 1560
 cttcaagaag cccttcgtca aaagcccgta agcggggaag acccccata tacacatcta 1620
 ctttcctaaa gaccagcagt acggaggcgg cggtagacgg ctttttcgga aagtcggaaa 1680
 taagagctct gaatacgacc ctgatctccg taccctccgt tcaatcttgg aagatggctc 1740
 tagctatata tacgagcagt tcctgagagt tgacaatgcg gaggatgtca aagcttacac 1800
 agttggctct gatttttgtc acgcggagac acggaaatcc cctgttggtg acggtcttgt 1860
 ccgtcgcaat acccatggaa aggagctgcg atatattacc aaattgagta aggaagaagc 1920
 gtctatagcc tcgaagatat ctggcggatt cgggcaaagg atctgtggct ttgacatgct 1980
 tcgtgtgggc gagaaaagct atgtaattga cgtcaatggc tggagcttgg tgaaggataa 2040
 taatgattac tatgacaggt gtgccagtat tctaaggac atattcatca acgagaggcg 2100
 cagacgtgaa ggtgtcgcgg aggtcctga agcatcctt tcagatcaaa gtcattacca 2160
 atggagacac tcggtgtcgc accgacacgc actaaaaaca ttgctaaagt caccggctc 2220
 atcaaagtct aacggcaatc cacaacatca gagggattcg gatgttggat ctttggagtc 2280
 atcacacccc agccttacag cgcctagtca cgacggcatg gacttcaata atgggcgtgc 2340
 cggcgttatc ccaaaggaac agtcagcatc acccggtata tgcactcctc aggggtcgaa 2400
 tcaaccctca cctacgatgc acagtcttga ggcaaactct ccgccgcctg cctctaagca 2460
 ctcatggaag ttgaagggtg tggttgctgt cataaggcac gccgatcgaa caccgaagca 2520
 aaaattcaag ttactttcc acagccagcc atttattgac ttattgaagg gccatcagga 2580
 agaagttgtg atcaaaggag aatctgcgtc tcgcagtgtg taagagactg ttaacctcgc 2640
 tatggaacaa gggcttgagg acgcgggcaa gttcaattaa tg 2682

<210> 2247
 <211> 3299
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2247

```

cacgatgaat tgtagcacgg accgcttatg cacaggttta aggaagacgt acgtcgtagt 60
tcagccttgg tgagggacag tctcaacgca tctgacagag tcgacctccg acacagaagc 120
gagctgtcca attcattggg acagcgggtc gatagggaag ttcgtttcga cggatattgc 180
cgcggaatgg atatagttgt aagcctgagt ggaagaaacg cagttcgccc tacctgccgc 240
ggaacccggg acagctgggtt gttgagtccg tagcaacccg aacagggaga cgatcttctc 300
acttccacgg tgcttggtga tatggaaagg aaccgtactg accgtctgat cttctctaga 360
tctcgtctgg atctcgtctc aattcgagct tatatcgact gactgaaggg atacctagct 420
agaaatcggg agtgggaagac acacacacct agtacctgag actacgactc acggctcgaa 480
gacaaccgtg ccttggggcg ggcaatctag aacccttagc ttgcaagcat acttgatat 540
agatcgcgcg gtatccacaa tcccgttcg tctctgaata tcatgcaacc agcagaacga 600
agtcgtccca gtcaaggtag tctcatagca ttggcttgag caaactaagc acatgaatgg 660
aaagcaagca cgcgtgtgtc tcagttcaat acttgctttc gcattatgga aaccagcagc 720
gagcatgtcg gtaatccctt tctgcctggc ggacgaactc gccataattt gatcatggcc 780
ttagagcagt acatcaataa aggccggccc aatatgtcaa gtaatagggt gagtcgttaa 840
acatgcagag aataggcaa atggagtga tagacagcgg caaggacgtt gcccgttcga 900
gtggtatgct cgtcccaagg gccagggtga gccagccagc ctcggttaca gtacgactcc 960
ttgcattaa gacgagttgt atacgtctcg cagttcccag caaatcaatt cttctgggca 1020
ctccagtaaa ccgagcattc cacaatatatt gacccaagct actgtaagac cagatgcata 1080
ctgctcttca attcgaaacc tctgccaccg gccgaacatc tgcagcacia gttgatagct 1140
ctgacgttcc aaaaacataa ctcgctatgg agtaaagaca ccagaggatg cggttaaccat 1200
tacatgagta atcccaggca ggataaagcc agagacccgt atcccagctc acggtacata 1260
cgtactctgt aaatacagcc aagcgagctg cagccggccg gccaggcggg cccggagccg 1320
gacatgctcg ggtgatctgc agcgaggatc caaggccggg tcattggaag agcaagatat 1380

```

gacaggtcgt tgttcggtgc gtttgcttgg actggtatag tttaatatat ggagctgcgg 1440
tggagagtcc aattaggtta aagctatggt taggtttgga actggaagtc agacctcgtc 1500
gcagtgactg acgacactcg gtcggagaat tatctcggtg ctttcataat attctgatca 1560
cctgataacg atgatgtcgg taccaagtag ccgttgacca tggatgcata ctogaagcgc 1620
actcatacga gcaatgtgcg gcgagcaacc tgcaatccct gcgacctaa aggtccaagg 1680
ccgctagctt gcctaatttg gcacggagct cgagctcaag ctgacgtgat aagtgcgaa 1740
ataaacggg ctagctgcac ttcagccgag agtcgcgagc gaagagccaa ccaggtgtca 1800
tagacgcagt ttgggggctg ccgcaaacia taaactcgtt atggagtctg gagcttttga 1860
taagacctct aggataacta gcatatagcc aaccccgccg aggctgctgg aggaagtctg 1920
tgcacaacac aaaatacggg attggctgca tgggtgcattt aaagctgcaa gcgcttgact 1980
ctattaggga acaggatggg cagcctgatt ggtcggcagt gagacactga gggttgaatt 2040
aatgcaacgg ttctgatgta tagactctgc aagtacggaa ttacacatcg aatttgtcgc 2100
ggctatgcct gtcactcaca cgggcgcgtc aagttgaatt tttcaagaga gctgtctgga 2160
ctgcggttgt ggaaagtgag accgtacggc aagacccag tgcgggggag gtaacgcccg 2220
cataatatgg tgtgtatgag tagtatgctt gaagttgatg gcctaggaag aagctcacag 2280
agcaaagtgt tgcgcgttca agggacgtgg aatctgccat tcatccagtg aggactcgta 2340
tcgtggtgat ggtgggtttg tgcgtcgtcc ttcaagcagt gattcagttt cttcatgtat 2400
tagggtttga ttactcgacc gagagggacc ctctgtggct taggtacaga gtacttgctt 2460
catgcttgga tgcgagcttc ttctcacagg tcgatgaggt gtctagacaa tgacttgag 2520
tcacggagtc ctcatcgcc gaaaccacgc cgtgaggcac cttgagcaca ttattgcgac 2580
tgcagagact agcttataag atcccatgca gggcgacgag tgcagttcac actgcagacg 2640
ggcgggcgta cggccggctc tgcggccgat ctggccgatg atcaaatcat tgggttcgtt 2700
ctgccgcacc cagttggctc tgatagcatt acttgctttt tgcagtgggt agagaggtgg 2760
taggcgtaca gaaatgcggt ccgttgttct gatatcactg taccaccccg gttgaacgga 2820
gggtggagggg aagaggagag tgttgatag ttctttttcg tctcaactca gtactctgta 2880
caccagtcag tagttgagga tctccaaga ttgtaccgtt tcgggtcggg ttgttgatag 2940
gtatgcttta agacctcta tggctcagct ctaaagggcc tcccacaaat ccctctaccg 3000

ttagttcgta cgaatacgaa gagcctcagg tttcaatcag atcggagtgc aatctcaacc 3060
 aggaaggtaa tgccggactc ctgggcgggc tcaacccgct cgcgcaaaaa aagggttcaa 3120
 ctacatgtac agtagacagg ccgagtatta gcccaggcct catagccgtg gctgaggcga 3180
 tcccagggtc gcaagcgcca cgggcttcaa tctccgactt ggactacaat gttcagacga 3240
 agttagaacg aaatttgaac tttatgttca gctgctgtaa aggagaaaat agccccgta 3299

<210> 2248
 <211> 1895
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2248

agtaaattgt tgtctagaca caagtcagca ccacaacctc aacctcaact gtacattggt 60
 gtatgtacga ttttgtaag ttgcctacac attgattggt cactgttccc caaggagccg 120
 aaactgtcta atgacaggca aatgacagat atgaagtgat gctatcagag gacgatcgct 180
 acagggtgag ttgtgcaatt tgaaactggt catgagtgtc ctcccccat agcatttagt 240
 cattgcaatg aacagacaat cactgcagga acaaagtgtc caaatgtcat atgaaggctt 300
 taattagaca ttgaattgag agttgaggta tgggtgaaaa caacgccgag tgcgacaaag 360
 cccaagattg ggcttgacct gtgcatatgg cgcgcctca taacaaaatg tcaggcaaatt 420
 agccggggag gaaaactagg ttggtcttcg gttttaggaa taaataccta gaagagtttc 480
 tgctggatcg aaacgcgata gatcgagctg ctacatagta catagagcag aatttacaaa 540
 aggaccatgg agttgtacac gagaacaaag cggcagaaga atatcattta caatatctgt 600
 tgcattaatg ctgcgaaaat gtagtcgaag aagtgaagc atgccatcaa gggtaggtat 660
 ccgtagaaa agatttagac cggaagaaaa gaagaacaat gaggtagtgt cgggcagggt 720
 atagagcaaa acacctcaag tgtatgaccg tgggcaatgg taagagaacg tgagcaggta 780
 gtgcatgtaa agcggcacga ttatataacc tagtgttaga gagacatcaa aagagagata 840
 gaaagggaat gtgttcaata tgtacaagcc ggtctaatat aatagagata ggaccggtgg 900
 cttgagagga caatcatatc accactcgat ggctagtcgt ccgtctgccca gaaactcatg 960
 gcatcgatct aatgaaggga gacaagggtga ttcattacgc tttgagctcg gcaggggatg 1020
 gttcgacggg tccggtggga gtggtgctgc gcttgatgc gccgtccatc ggctcagtgg 1080

tcccgttaat aacgtcgcg gtgagttcga cgtagtcata ctatgcaaaa gtcagtagga 1140
agcgttgaca gattccacgg gggacgtaca gcaaattcgc caatttcggc gtcacgata 1200
ccaaggactt catcttcttc agggacgcgc aggctaaggc cggggatcat gttgatgata 1260
aagagaatga tgcagctgcc gaagaaggag taggccatgc cggtgacgga atcggcaagt 1320
tggtagccgg ggtggatgta attgtggttg atccagccgc cgtcgatctc ggtagagccg 1380
tccaggtggg caatgtagtc actacatagt gggttagtta gattagcaaa gagtcaggtg 1440
gaagggctta cgctgcgaag agaccggtca ggaggttacc gacaagacca ccgataccgt 1500
gcacagcgaa gatatcgaga gcatcatcaa ctcgatgag atacttgact ttagtcgca 1560
agttgcaagc agcagcaccg acaacgccga agataaacgc agcccaggga gtcacgaagc 1620
cagaaccggg ggtaatggca acaaggccgg aaatcacacc ggaacagaag ccaacggttg 1680
accactttct ttctagacgg tagtcgagca agcaccaggt gacaccacct acagaagcag 1740
ccaagtttgt cactacagca gccatcacag cagcgagatt agcgtcaag gcggagccgg 1800
cgttgaaacc gaaccagcca acccaaagaa agaaaggtga caatcacaac atgagtaacg 1860
ttgtgagggc gatagttgag gtcagagtt ccaga 1895

<210> 2249
<211> 472
<212> DNA
<213> *Aspergillus nidulans*

<400> 2249
ctttaacgac tccttagtct agtgccagaa gggggaaaaa aaaccgctac acttgcattg 60
tttctcgct tgatatagtt aagtcaaagg ttgacaaaaa gctaactaaa aagaaagtca 120
acagaaaacg gccccgtacc gaagagtccc ccgatgataa cactgagcct gtcacaccac 180
aagcaaacia acgccggaat cttggaccgc ctggtagtac ccctttcgcc cgacggggac 240
gcgtettact ccccttcgcc gcctcccca tacagtatcg ttctctgaga ggaagcgacg 300
ccgtgacgag aaagccaagg ccgcatccac agtacaattt ttcgtcttcc tcaatacgtc 360
gctcagactg aagctgatcg tcgcgcatct gaaaccaccg cactaacacc tctctccaac 420
gagcccttac aggccgattt taatttctca tctgaaccag ctgagacgga cg 472

<210> 2250

<211> 1006
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2250

```

cttgcttggc ctgccagagt ccatagtctg acctagtgtc cgataaagtc cctgacgaat 60
tgtctcagag ctgcaccgcg gcaacatggc caacgctatc accgacaact ttatagaaac 120
gtcggcataa accaagacca attcaacgtc ggtcagcaga tgctttctct tggaatcgtg 180
ctgacggaaa ttccaagcaa catgatcctg taccgctcg gccccggcaa ctggctcaca 240
ctccaacttt tcctcttttg catcgtaagt acgtttcaag ctttccagcg cgggtacgga 300
gcgttcattg caacgcgttt cctcctgggt atcaccgaaa caggttccat tcctgggggc 360
ttatggacac tctcaacgtg gtatgcacgc gacgagacga canagcgtat catgatcttc 420
ttttctggga accagattgg ccaggcgagt gcaaagctgc tcgcgtatgt catcttgac 480
atgcgggggtg ttggaggtca aagtgggttg ttctggctgt ttgcattgat gggttccttc 540
accgtgttta gcggttttag attttggttc tttttgctgg actcgttcat gaaccacac 600
agcacgttcc tgccgaaaat gttcaggttc acggagcggg agttgcatat ttgcagacg 660
agggctcttg ttgatgatcc catgaaggga aagaagaaga gaaagatagg gcttggggct 720
tttaagagag cggttagttc gccttccatg ccttttaata actgatgcta aacttatata 780
tatatatata tctcgcgcgg atagttcacg gactggcgta tctgggtcca tttcctgatt 840
aactgtcga acaatggccc caacgtgctt tcgacactta tgctccctca attatcacca 900
gtttcggctt cggtaggctg gtcagcaatg ctatggcagc tgtcgggtcta tttctacagg 960
tcccagtgtc gttcgcattc agctggttct ctgatcacta gtgagt 1006

```

<210> 2251
 <211> 853
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2251

```

gatggtacct gtatagctaa ctgggccgtg acaacaacca accctcctaa gaaagagcct 60
tgactaagcc gtcacgagta ctaatcctac ccgctggcgt gccctgaccc acgatgcgat 120
taccacagac ccgcagaccc actactaacc tctattttgc tagtgtcttt cacggcttcg 180

```

tatcagcctt atagtaaagtg actatagctg gactcaaagtg acgagatatt tgacctaaca 240
gagcctgtga gacgtgatca agcttgtatg agtttgtttc caggcaagca tactgcaact 300
tggaactaagg tcacacatat ctggccatag cccatagcct gatctgtcag gagagttacc 360
tacatattta actagcccggt gacaagggcg cttaccagtc taatctgacc gtaatatcta 420
gaagaatgct aggaccagct gtttctctga gtaatagact tgctttgctt ataaatcagg 480
tggttttgac tggttgagat agcttcaaac ctaaaaatgg aaccatctca gcggctagag 540
ggtgacggat cggtcgagga gggcgggcg tccgggagat acgggaacct ttgccggacc 600
cggcactctt gagagccggg agtgccaaga acgtatcagc ggaagagcca aagaatgagc 660
tcctggggcc attccagcag ttccgacttc cgaagagcgc ctagccgtaa gttgatgcta 720
tgacattaga gatctgcca gttatatcga aactatgtgc atatatacaa gacaacttgt 780
caaaatctct tcttattcta tccaccagag gtcattgtaca gaaaccgtga tggggaaaga 840
ctctgagggg gcg 853

<210> 2252
<211> 3009
<212> DNA
<213> *Aspergillus nidulans*
<400> 2252

cgtcaaaggc tgatgacttc cgctattatg agtcaagggtg ttgttatgta atattatctc 60
aagcgaactc gagtacttta tactcgtaac ctttttttcc cttttcatgt ctatgtagtc 120
gttactgata gtaaacatat ttttcagagg ccattcgtac tcagacagtc tgaacagcct 180
gcggttcgt cctcccaaaa ccattcttcg catagaaatc cattggataa acaccttcat 240
gcgtttctc ccagtcgtct cgaaccccaa gtgcaataag cgctcgtag ggcgtcaata 300
gcggtctcgg gaacgcataa cccaatcga tacttaatcg cggacaagca atctgcaccc 360
aacactctac atccgacatt gccgccaact ttccgggaaa gatctcgctc aaaagcaaatt 420
tgacgaaggg gataccctc tcgttgaggt gcgactcaat catggccatc gtatgtgggt 480
ttccctgacg accgagggag ccaagaatga taccatattt ttctgcagtg cggcgggcgg 540
cgatggcatc gcggcgagg gtgtgcattt cgggtgtggtc ataggattcg cggctgaggg 600
tgcgagagta aggatcgctc cggttagcgg gtatggaggg gttatggatc atggcagatt 660

cgaggtggaa gcggccgtca ccgaggtaca gcaagtagtc aatttgctga gcagataggg 720
 aaggggaggt gcagcctaata atctcgctt ttgacagcgg tgtaatttgc gggatgacga 780
 cgttgaaccc agcgcgctcg agaaccggtt tcaatccgtg gagcgttgca ttgaattgaa 840
 ttgtgccaac agtggcgatt gtcttgctg gttgaatgtt gcgctcgaga gtcgcaatga 900
 ggtgcgaagc gtcaatgcta atgtcgacga agatgtatag cgttttgatc ttcgttacgt 960
 ccacgggaat caggcaggag tgggcgtagt ggacgagaag gtcacagccc agagcgcgtg 1020
 ccgtgtagtc gtctatgcag catgcgccat aggtgacgtc gcccatgatg agggtttcag 1080
 tgccggggca aaattgagtg aggatgtcgg aaattgtggt tgcgaagagc aggagtcctt 1140
 caggaaattg gagagctatg cgttttgccg cggaggtgcg gatgcgatgg atggttttcg 1200
 gaatctcgaa cgagtaattt tttgggagga ggtcgatggc ggcgagaatg tcagggtctt 1260
 gggatatttc cggaggaact tgatttaagg tcttgggggt ccttcgggggt gttgctgttg 1320
 ttttttagta cttgggcatg gctgaaagc ttctctactg tacctttttg tatgcttggtg 1380
 gattcaacat cttggacgct cgttgatgac tgtgcttggg tgtctgctgt gcgtctccca 1440
 acgaaccttt tctttggttg ccgcagagag gcgttcgcct gaagtttttc agtagagtcg 1500
 cccattccgc cggttctaata caactttcgt gcagagcgtc gactttgaag tgggatgaag 1560
 ccattttttc ccacttgggc tctgactaag aggggtcagg tggggtttcg agtctaacct 1620
 ctttcggcat tgtcacttgc ttctccgat ttccgctga cagtattcca ctttctggag 1680
 ctcatggcat gattccatca tcgttcatca tcgtgatctg aagtgatgtt gagactctgt 1740
 ttcttttcaa ttctccacaa tgattaaatc acggcccggg tggagatttc tgcctctct 1800
 tcgagccct cctaccagac gctttgcgac agaggcgcgg ttaacttcgg accatgtccg 1860
 catagttgaa gtcgggcctc gcgacgggct gcagaacgag aagaagtcta tatcgctcga 1920
 gacaaagctt gagcttatat cgaagcttgc aaagacggga gtgacgacca tagaggcagg 1980
 ttctttcgtg ccggcgaaat gggttccca ggtatgtctc caaatgccgc ccgctcgtaa 2040
 ccgataaagc caacgaagtt cgaaatttga tgctgatatt tgcaaatgat agatggcaag 2100
 taccgcagag atatgcgagc acctccttca aacccgcgcg cagtccctga acgcgattgc 2160
 atacaattat cttgttccca acgtcaaggg attagagggt ctcatcaagg tcatggatgc 2220
 aacaggggcc tcggcaagca caccgggaac caaacaact ccgcgacaac gaccgagatt 2280

tctctttttg ctgcagccac agaagccttt tccaaagcaa acaccaattg taccatccag 2340
gaatctctgg accgcattcg ccctatcgta gcattggcga agaccaaaga cattcgagtt 2400
cgcggggtatg tctccgttgc cctaggctgt ccgtacgaag gtccagatgt tccgccgtca 2460
aagggtggctg atatcacggc aaccttgctc gagatgggag cagacgaagt atcagtagcc 2520
gacactacgg gcatgggtac tgcaccgcgc acgatggagc ttcttcaggc tctgaaggca 2580
gccggcatcg ccaatacaga tctggctctc catttccacg acacttatgg ccaagcgttg 2640
gtgaacacta tcgtaggctt agagcatggg gttcgcattt ttgacagtag tgttggcggg 2700
cttgggtggct gtccttattc aaaaggagcg acaggcaatg tctcgacaga agatctcgtc 2760
catacaattc atggtctcgg gatgcataca ggtattgacc tggaggagat gtcgaggatt 2820
gggcaatgga tcagtgatga gctaggtcgg ccgaatgaaa gcagggtgg caaggcgact 2880
atagcaaggt tgcaatcata gtctgtatac tatgcaagga aggcacagtc ctgcaagatc 2940
ggaaatacgt tgttatcatt cattctgtgc gtatagaacg gcttgcctta tctatgtctt 3000
tatctcctt 3009

<210> 2253
<211> 2464
<212> DNA
<213> *Aspergillus nidulans*

<400> 2253

ggagttaatg caatagcgaa ccttaccaaa ttctgtgaag caccggctgg gggggttgat 60
gtgacgcagg gcagagtcag tgtgggagga tggtataaca aatgctcagt tgattggata 120
ggaggcctac tccgcacaaa cgccaggata tatatacccc agccatgtct tgaatcattt 180
aaagagacga cgatgaagat gtctagtttc taacgcaaag aatgaatata atacacaatg 240
catagcactg cagcaggata tcataaagcc ataaccaaac gccattccga aaaatgccac 300
caacctggcc gacctcatgc gccgttgcta aaccgaaata gtgataatac agccataagt 360
gtcagttgaa aaagtgggtg tccccgcaat gccaacgcac ttcattctca gttctgactg 420
tggtaaaagc tcgatgggtca gaggtaaatg ctctcacctc gcttgggaat gtggaaaaca 480
catcccaaat ttcttattga ctccacctca ttcaactctt caagaatctt tgctgcggga 540
tctgggccgt catgcaaaag ttctttcaca tgaatgacgt aactgaaag gccagccaaa 600

ggcttttcta cttcgagagc atccctagta gtgcacgtct gacggcaaag accttgacgc 660
 tcaatggcga ggggtaccga gtccgatgtc tcggtagcct gtctaattcg gggtccggaa 720
 gacgcacgct tcttgacgct gtttcgaatc gacacagctc tccctttgct atctccccgc 780
 tgactactcg actcggaact actgtcccgt ttgcgtttgg gaatcggcgg ccacattagt 840
 cccttgatgt cagctacgcg tgcagctagc acggtcaatt catcgactag atggcgcggg 900
 cagaggtggc caaataaata gatatactca gtcgaaatcaa cataggaaca ttcgatgaaa 960
 atggctcgca aggtaccaga agcgaccttc ggtgcagcga tttcccatatc tttccgatta 1020
 cgcggattga aggataccga atcaggctca acatcgccaa aaatgatgat ctcagttcca 1080
 gttttctggt cgcggaggaa gaaggcggag ctttcgaccg tagtcacaa tgtctcctgg 1140
 ctogaagacg gcggttgga atgaattgga tccctaaacg ttgttagctc agttgttgat 1200
 gcaccttcaa ttatgccgt taccattcac ttggttgccg tccagcttgt ttcgctgaag 1260
 atatacttag gcgacgtca gtacctgctc tcaccttgca tcgcccattg ctgacactaa 1320
 aacctogaac gagcaatcct tcgccagctt gagtgttaacc ttgttcacg ccagagccca 1380
 gcattgggtt gcctccattc gcgagacgt gatatgtgat caaaccaata ccttcactc 1440
 cgtcgaaaaa atttggccaa atcaagttgt tgaagatgtg gctcttcacg gcgtctataa 1500
 cagaaggcag cgcggcaaca gtctttggac cgttttctt ggtagaatc gggatattca 1560
 tggccaaagc cgatacatgg tccaaatgag ggtgtgtgat caggaccgt ccgataatct 1620
 tcttgaaaac atgctttgct tttgcaccgc tggctcaca cggtaggcgt aaccagcaa 1680
 aagggccaga cgtgacgat ccgttcttgc tctgcactt ttccatgacg tgaacgattc 1740
 cagcaagcag ggtacctgca tcgacagcga ccatggtgtt tggagcccag ttagtggccg 1800
 tggaccgaac gaggataccg gtgactctgt cttcacgagg gcccccggt ggaccctggc 1860
 gagagacaat tagtttgatg ctgtttttct cgccaaacga gagcgggaca atctggttgg 1920
 gataggagag acgggcctca taaagagact cggctgggca aagcttcacg gcaggtggca 1980
 aggacttacc aaaacaaca catgtagcgc aggtctctctg cctcctcggt aatcgtttct 2040
 ctggccaccc gtatcatgc tagattcatc atcttcgaga gtttcaatgc tttgagcagt 2100
 agagagcga gaactttctg aggttgggta aaagactggc ggataatctc tctcttcttc 2160
 agtcggggga ggggctcgtt gagaatcctg attgtcatcc ttcgagcct tgttgatttg 2220

aggttgaagg tccgtgtcgt catgcgcagc cttgtcatga accgctctgt cgacgtgagc 2280
 acccttggcg tcttgagcac tctttctggg tctgaccggc cttctacggc tttctgagcc 2340
 tgtgagggga cggccattct tctttggagg cataatgact atattctccg acggtagaaa 2400
 taagcctggg gttgcgcga tacctgcagc ccgctacttg ctggccgggg tgcagaaaac 2460
 caaa 2464

<210> 2254
 <211> 4517
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2254

cggagaaagt agatgatcct tggcgagacg catgacgtac gtaggtttga ataacagctt 60
 caacctgacg gcgcccgact ttccgtctag agttagagaa acctcttgag cctggaaggg 120
 ttccagcatt tcaaggttga tcggcacacc gccgagataa tcagccttgt cgccaaagtc 180
 ccaatcatag acatcgagc ggaaattggc accaatcagg gacttgattg gcgtctcgaa 240
 aaactcgttc caggcaggat ggagggtctt cttctgcact ttagtcttga agatttcctt 300
 accgtccaag cggaatttgc agtacggatc actgtagccg ttgcggtcgg cagacggtag 360
 atcggcagcg tccaagacat ccacacggag agttcccatg ttgttgatgc tttctgatgg 420
 atccagtttc atagtgcag gaatgtatcg agcactaact gtgactctgc tcacctctcc 480
 atcggtggtat cggaggacaa gctctgtagg tgtgtacagg atgcgctgga gcgtactgaa 540
 cgtgtcgctt gtgagtttgg ccacgatatg ttcgtcatca tcagtgtcgg cattgacctt 600
 ctccacaatc cgaagggtga tctttgagaa ctcaagttca cgcacaaacg catcgccaac 660
 tggataaaaa gtcagccaac ttcaaatttc cagaaagact agaatactta ctgtcctcga 720
 tcttagcagt cttagtgcgg attttgggcy atgaccacac tgggaacata taatcatcca 780
 ttatgatttc cacatgcacg ttgctgcgcy aaagggttgac ctcgtgaagt ttaaacacga 840
 tgaagccgga ttctacaaga tcagccgggt caacgacaaa tacaacaaca gaagggaaca 900
 aagacttacc atggttggca aggtcgtcca cagagatata agtcttgggg acctccttaa 960
 tagacctaac cgacgccgtc tccgagtctt taacagtacc agagcgagac tcaaggctag 1020
 gacgtccgtt cgactgcaaa tctgcggtcc cattggtagc accttattgt cggagatctt 1080

cgagtccacg ctccctggact tggagtggta gctcttgctg ctggaatcag tgctcttcct 1140
 cgtcaaccca gctgcctcag tctcggcctc ggctcagcc tcagcctcct cctcttcctc 1200
 ctcttcgtct tcaggattga cgacggggat tgttgggtag aaagcgacag tatagttcaa 1260
 agttcccttg gcacgttgac caaggcgaag ggaactggat acaagttgtt tctcgtcatc 1320
 gatttcgtat tcaccggcct cattctcatg aacgtagtct gctgcagaga gctccaccga 1380
 gccaaagtgc cgatcacttc caacagactc ctcatccatg acttccaagg tgagcttctc 1440
 gcgagcactg tgaatcggaa cgtacacgac ttcatcccaa tcagggttga ggttgttcct 1500
 aaaggtaact gtgcggccct tcatgtagcc agccagcagc actcgagcat aaggatcaga 1560
 cttgcccata ttctcaagggt tgccgagatc cgctgcgtcc ttgaagtgga ttcgcataac 1620
 tccaattgga tcgacgtagc cggcgcttcc tgcaatgcct cccaccgcaa cgggcttcca 1680
 atccaagacc agtttggcac gtccagactt agcacctgg agatggaacc actggtggcc 1740
 tttctccatc attttgagca tgtcattcat cttgatctga taggaaccga ggatggggtc 1800
 cttgactaga tcccggtcgt cttgatcac cagaccaagc cgggcagtct tacgatcagt 1860
 gacaaaaaac tctttcgagg cattttggaa gatagggttg ttcgttcgct tgagtttgtt 1920
 ggttatgtgg atttctttgc cgttgagtag aagaacgccg tatgggttca gttgcccaac 1980
 caagctccta cttccgtcca ggtccttggc ttgttcgact gtgaatcgag cgataccagt 2040
 gttcagctct ggaggcgggt cagtctcacc gttctccaat tttctaccct ccaaaacggg 2100
 gaagaatcga atatctgct ggatagaacc ccgggatcgg ccgcttgcca agacttcgag 2160
 gtatacactt tcatgctcgg gctcttgctc aagcttgtcc agggcgaaag ttgcggttcc 2220
 cagctccttg tcttccgga attcgttcca atcgtaagg tggatagtca aagtgtcagt 2280
 gaaggaggtg ataatcacgt agatagtctc gttccatctt gggctatccg tatcttgat 2340
 cgtcttagtg cggccaactt cggtcgggtt gttcagagat accactgcat aagggtcagg 2400
 agtaccagcg aacttgtcag ggttctttag ctggcgcgcg ccgtgaagag ttacggcaac 2460
 aacaccgatt gctgatcaa cagcgtttcc agcaagcatc ttggcaatct caatcgggaa 2520
 aacgttgggc tcatacatca tcggaccaag attggcgtgg atctgttctt tgataaagct 2580
 ctccagacca gggatgaagt tgatatcgaa ccgagggtga tcgccaccga gaggcttgca 2640
 aacatagtca agttccggcc gtcccaaaaa gcagacatca acccgttcaa tatgtgggaa 2700

gggaatctga agcttcacct tgactctcat aagaccgctg caagccatgt cctcaacaat 2760
 cacatcgaga cccttgctga cgacgccttt accaacacgg acttccaaga caactttggg 2820
 gttgatcttg tctttgacct ggcgggcggg caaatccatg gtatcgtagt gtgtgaagct 2880
 gaatttccag tccatgatga cagtgtcaac ttcggtctta ggataggtct tgacgtgctc 2940
 caatcgaggc ggtttgctgc ctaggataaa tgtcttcaat cgtaggctgt ccaggaatgc 3000
 tgggggttgc gtgctgagca cctgatcaac ggaattgatg atcgtgtcgc acatcactgg 3060
 cgcataaatg ggccaaaact tgacaaggaa actggtgatc cactccaagc tctcggtatc 3120
 ggtttccagg cgttgcttcg ccatctcgcg gttaacgtca tcgcggaagt ttcgccgaac 3180
 tcgccggata gaggttcgat aataggtgcc acaggcggcc atgataatga agaccaagc 3240
 cagtccaccg cctagaacgg cgacaatcca tgatgataag catgcaaaaa caatgacgcc 3300
 ggcattgtga taccaatcta atacactgtt agttatattg gggttcaatt gtccgcagcg 3360
 acataccgcc aaagaacttc tcgtccagtt tggcctccaa gaaggtctga tggccaaca 3420
 atgttgcttc atcgtgctct tcttgagttt cctcatgaac gaaccgtgga gccagcccg 3480
 tccggtcgcg cgcccaacgc tgctcatcat caacctctc ctctttcttg tctgctgcag 3540
 gttcttggga tttttcatca agcaacgtgg ttgcggattt cggtggagga agatcatacg 3600
 gggcgggagt gccatcgctc ttttaagcagg atatcaataa gcaaatgtcg agtgataaat 3660
 tgaatgtacg cgtcacctt gtctgtgatc acgccgattg ccttcggttc ccggtcacgg 3720
 tgaaatcccg ggggaacgca ctacggaac agagatgagt gtcagtgaac atagtctcaa 3780
 gcagacaacc ccagtcaaa gacgtacaga ttcagcttcg gcggcctttt cttgggggtga 3840
 tgcgtctggg ttgaattggg aagctggtag acccgcttc cggtctctt caaccagttt 3900
 tttctcgact gtttcgggtt ggatgtgcga ttggggatct tgagaggcag cctgggcggg 3960
 ctcgatagct ccttggttgc tcaattccgc agactctgca ttttgagaag ccatgctatc 4020
 gctgagtctc cggcgcgcag tcgcccactg cagttcaact cagcttataa tcgacgggcg 4080
 aagtcagcca agacgctcgt aacgttttcg ataaaataga agcgtaagaa actgcacagc 4140
 tagcaattgg gaaacagaat aaaaagaagc ccagaaatcg aagcgcggcg gaagaatggg 4200
 gggtagattc ggggaatagg gtgtgccttg ccgctgagct cggcagcggg gaggtggag 4260
 tgtggcaggc ttgaacggtg gaaggatacg agtcgaaaaa ctcgaaactg gattagtga 4320

ttactcacat gagttggatg tacgatgatg atgatgtact caagtctgct ggcgggtgac 4380
cctggcctct gacaatcggc gagtgtttag gagacggaga tacggagcag aggaaggcca 4440
ggggaggaaa gaggaagtg gagagggatg ggggggagtg ttcagggcag ccgaagaaaa 4500
gaaagaaaga ggagcca 4517

<210> 2255
<211> 1253
<212> DNA
<213> *Aspergillus nidulans*

<400> 2255

ccaactcccc ctagcccgca tcaagaaggt catgaaggct gatccggaag ttaaaatgat 60
atccgcagaa gctccgattt tgtttgctaa gggctgtgat gtttttatta ccgagctgac 120
tatgcgggca tggattcatg ccgaagacaa caaacggaga acatttcaga gatcagacat 180
tgcagcagcg ttgtcaaagt ctgacatgtt cgattttctc atcgatattg ttccccgtga 240
ggaagccacg tcgcatgcaa agcgctcgag tcagtcagcg ggtgcgccag ctgggcctgg 300
aggacctacc gctgcggggc agttgccaca aactcagcac ggggttcagc atcatcccca 360
tcatatggcg ccgccagatt atggtgcggt aggacagcat cctcttcaag accaggaata 420
caggcagcaa actatgtatg gaggagcagt acagtcagac ccaacagcgg cgtatgccca 480
gcctcaaact caaatgtttg aaggaatgta tactgcttac cctcatttac ccccgagca 540
ggtacgcatac ggttgattcc gtttggcaat ctagtgtttt cgttttattt cgacctgaag 600
tactgatctc atgacccta cagtactta ttagcgaatg atcgatcgtc tctccgcagc 660
cgggcggttt ctttgtttca gattgtccac cgggcgactg caccagctat gctttaagag 720
tatcgagact acgttttaaa taccattttt gattatttac ttctttgagt tatcggtgat 780
acaacagtaa aattagaaga gtaataaacg ctagccatgc tactttttcc cgaatcttga 840
cgataacgtt gaaaatttgt ccatcttcac agggctctga accgtgtgag taagtctgag 900
acaattaata tgcgtatgaa ttggccgagg gtgcgccact tacttctcca ataaagtagg 960
gccgttgatc gcatctacac gcccatactt tttatttcgc atggatatgt cataaaattc 1020
gtccgcgttc tccgcttgca ttagctgaac cgtctgttgc agttcatcta gattctctcg 1080
aagaatgggg ttgttgagac tgtcgacgaa ttgatataag tattcaacat ctttggcgag 1140

agccatcact ccgtaggggt taattctttt cacttccgct gaaagcggga gggcctaggt 1200
 agtcgggttag tcctttctgc aaacatatcg cagccaacgc aatgacatac gag 1253

<210> 2256
 <211> 3576
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2256

tttatgtggt caatctccgg cgcttaaagt cggcaaccgg gcacttccga gattgcatg 60
 gtctcgagcc gccgtggggg ttgccaatgg acgctgccac tagaggctgg aggctggagg 120
 ctgggagctg ggagctgttt taagtgtctg cggctcgccc gtggcttggt cgaatcatga 180
 ttcgacagca ccaaggaata ccgtgactgg attcttcaca gcagtaaaca ggtgtaacac 240
 aaagtgtgat ttcctacat ctgcctaacc gggctgagga tgaccttttt ctcccatgca 300
 aggcgagcat cgccaggctc agagcctaaa accagctagg tgcacggaca tgtgtctcgt 360
 attgagccca gccgagacgg gctaaaagct gcggtcacca gcgcctcggg tatattcctt 420
 gttagggaag cccaagggtg cgccccgggt cgccatcggg cagccaaaag aatatgccga 480
 cgagatgtat atcagcaagg acaagcatac attttccttc accccttgct gattgggacc 540
 gctggaatac acttctgagt ctgaacggga cgccggaaaa gggccagaac ccgcgacac 600
 gaggtgacg cgagacatcg aagggtgcagt tgggtgcagt tggagtcggg gcatcttttc 660
 gaatctggct tttggaatcg gctttcgaga tccttgctcg tgtgcaactg agcgtctggg 720
 aatacgagca atcccagcgc ggcagagcta gcattgagca catcttcggg gaccgcat 780
 tattctaagc ccagccaggc agacatccgt tcaatcggag ttttgcttct ctttcgcatg 840
 gatatttga aagcctcgaa aagggtctgc tcgagagaca aggtctcggg accgtaactt 900
 ggtgaggacg gactacggag tagatgtgtc gactgtctcg cgctggatct tgggtgatac 960
 ctgtcatggc tagaccagg atcctgaaaa atgaatgata ttgggccgat ctgtgccaca 1020
 ccacgtgtag gaactgggaa tcgaccgctg cctgcccgtg acaatcactc acctttggtt 1080
 ctggatttta aagccggaaa actgcagcct gtacgcagca tctcacctgc tccaacttcc 1140
 tactctgagt acatctaatt cagtccgagt ctgtaattgg gtaaacacga aatgctcaac 1200
 tctgtgcctt gacgtcactc tatatcgctc cccacacggg acaccgctca gtcagtggga 1260

tcgcctgcgc tctgtgcttt gtataaaatt tagttcgcgt ttcttttttt agcaggatag 1320
 gtatttccca aaatgaggaa gcctagtctt tatggcgctc aatagctttt cctatcaaga 1380
 ggcggtcaaa tttcagtgcc agctttgttg gatctcagaa ctccccacac catcgccacg 1440
 cgttgctctg gtgttccaga agatgtcatc gatctgtgag aggtggagcc tgctgccgac 1500
 tgtcgacttc gccgtcggct tatcaaaaag atggcgccga tctgatgact gcttgaacc 1560
 tgctctgca ctatgactgg catttgtgag tcccagaatg tgagcactct accctttatc 1620
 ggcagtctg ccttctcttc gagctcggag gttttacctc gaatcccagag ctctgtact 1680
 ccctcgtgca cgggttactt gtttgacaat ctactctct atcgtcgact tttctgcgga 1740
 aagagactaa cggtttgggc cctggatcag atatctacat gtgcgcttga tcaactcagcc 1800
 ggccgtctgt ttcttacagg aactacggtg caggtcaagt gtaaggatc gacgaacac 1860
 gattacctca ataagagctc attgaaacgc aatgtgctcc tacgatgcta tgactcgaac 1920
 cgtccgagct ttgtggtcag cgtcgtacaa ccgcgtgaag tgaaacttct cgctgtcttc 1980
 tcgaatccat gttcaagttg cttgggatcc tcaagattga gttttatcta gtttcgagta 2040
 actacactcg ttcgacgtga acatcgacgc ggatatgggc gctgattagt aggtttgtct 2100
 tctgctagtg cttggacgtt aggtaggata ccggcctggc agctgctttg aattcatggc 2160
 agtgctactc cgtacactgc gtatcatttc tgttgtccga gtgctgcac cgctgaactg 2220
 tggtcacgga gcccgagtgt ggatatatct ccagctgaca attcctccat gagtgatata 2280
 atgggtcttc cttcgtcggg tggtgacgat atcgtgaaat atgggttgct gaacgacgac 2340
 caatcgctcg gacgtcaact tgcccatga aacacaaagc aaggctgaca ggctacattc 2400
 atccagaggg aagcacaaaa gacgcattgc aagggtgctg cacgcagcag ctgtcatgct 2460
 tagtacttat ctctgcaccg tcattcgttg agggctagcc ctccaaggcc ttttctgtga 2520
 cgtggctgag gccagaacag gctgtatcta ggctgataca agactaagtg tgcggctcct 2580
 actaggccac gaaatggtat tacgcctgtc cttgccgccg cgcacgtga ttccttccac 2640
 aaactatctc tccaggggga tggaatgcac atgacagtct ctgagaggca actactccg 2700
 agtagatagc cgctgccatt tccctgaacg gccacggcac ccatctgaac actggtgcag 2760
 gacctcgtca tctgaacgag atgtccaatc ggacatcaga tgtagcttct cggctctgca 2820
 cggggcagcg cggggtgtgg agcttgacgt ataagttgca tgacttgtct ggccgcccc 2880

gtcttattgg attcttgccg cctggagcag ggaaagtccc tctggacacg gcccggggag 2940
aaagtcatg agccactctg atatttctcg ccactatcac actcgtcacg tctatgatga 3000
ccatacatgg atcactagca atttacgtac tcttgcaatt tacgtactct tcatttccta 3060
tacaacctga gaagctgaaa aagggatcat ctatgccttg ccgcactctg tgccctctca 3120
cagcctgacg ctgatgtgat gaagatcgta tcttccggac gttctctaag agccgcttct 3180
cccttttggg tgctgcatct aattagcttc attacgaata ggacacacta aaagagcgcc 3240
ctagcatcac cacgcacagt accaagaata tgcccagtc taatgtttgc gttttatata 3300
aattctctgg agctgggact tgggagtgtt gaagttgatg gtgtaaagca accctctaac 3360
cactcacgat ctaggccaca ttgcgttatt tcgagctcag tcttcgtgaa ggtttatctt 3420
atcaggacac cccatgatcc caacacagac ggagtacacg ttcgctcattg tcttcaggct 3480
aaggcaggca atattcaaaa tagacattag ttcaatactg agtagaggta tgcgtatttc 3540
cattaggggt gcgtgcatgc aatgcagatc tcaatc 3576

<210> 2257
<211> 1852
<212> DNA
<213> Aspergillus nidulans
<400> 2257

tcccaattct aaatcgggtct actgcaaatg gaaatataac aattttatcg gcatataatg 60
cgctacttct cgatatattg ttgcaatcaa tgaaaatagg ttccatgcag gtatacatgc 120
accgccggtc tggcgtagta ccctctgttc ctcaatgtct tacccttatg agcagtgaga 180
taacccttta cattcatcga tgtaggcttt taatcctcgt gactgtcata cagtaatacc 240
atcagcgact gataatctaa tctacgtagt atttcgcatg aattctgacg ttgtgcaccc 300
gggaactgga tacataggca cgtaggcgcc aaatctagca acagaaccag atccaaattt 360
acaaatagaa gcctgacatc tttcacataa aggtgctaca ttggtggtac tcaactgcag 420
gtgtcatgca gctgacgacc tccatctttt ctagacatat caccaggtaa tggctccgtt 480
cctaaaggag tctaaccccc ccgggtccag gccgccacca agctggatat agaggcaaca 540
aaaaaaaaa aaaaaaatc tcgagctaca agcccagtc aaactgaac aacttgcaac 600
cctactcaca atcgaaacga gggagacgcc ccgcacagga cggggcgccc ggggatcggg 660

gccttgcac gaagtttcgg tttctgtacc actgtcaggg gatacaccac gatgtccacg 720
aataggcgct ggacatgttt aaaacatcca cgtcgcgggt gtcccagcgc tacgggaact 780
attggatatg actgccgcac gtttcatta tggatgggag agatcggtcc cccccaccg 840
taacgggtct ccagcgtcac gctcaatagt atactgaatg gtgggcttta ccaggaacta 900
gctccctcaa ggacatgggg tggtcagagc cccgaagtc aagttactat ccactaagtt 960
acgatctact tcatgaagtt ttctatcaaa tggcctttga ctgcaagggc cggaagcgct 1020
ggatattgca tgattacgca gcacactgca ttgatacata aattgaactt gtactaaagt 1080
atctcttggg ttacctgca gctggagggc gtggggatgt aagggagggc cggagcatca 1140
agctacctcc gtgacgtggg acccgagtac acagatatgg tccgatgatc ccacagtata 1200
ttggccgcaa accaggcctg gacagtctgg aacggcctcc tttagtaaga aactcttac 1260
cagcaatcaa tggagttgag ttgttcattg gacaatgtaa ggtgccctgg tcccatagcg 1320
cctgcctcgt accctaaatc agaatatgca agtctcgctc gttgacgtga gtagagaggg 1380
aaaaatcaat atgcctacgt agtagaccta tctccggtat acaactgcta gggctctaagt 1440
caatgtttgt gaatagtaga cccgtgccga ggcttaccat aatagaaaaa tccctctgga 1500
gtttgaagta tctagttatg ctattcatta ttagtcatta aataacatac gctttatgca 1560
cattcatctc cgagagccgg actgactctc tgcactcctc attcctgtgg cccccagct 1620
cctacgctgg ggaaatcccg agtcgccgcc ttctgcaatg gctgatgatg cttcagcttc 1680
tatttcaaga tgctctatat gcctcgaaac cttccggaga gcagagcatc tgaaacggca 1740
cattctaacc cgtgaggacc tcacaccgtc agcacctagt acatgccac taaccgatga 1800
cgcatgatgac gacgccaagc ggcatacatg tcatttctgc atggcccagt at 1852

<210> 2258
<211> 3629
<212> DNA
<213> Aspergillus nidulans
<400> 2258

ccgcgtaatc aatcatttct gacactatgg acccgatacg tccagatagg gatactagtc 60
gaatggaaga accctgtctg ctcttcgctc ggccggcgact ggaaagggtat ctgctctacg 120
gcgagggcgt tccgtgctac aggcgactga atcagatgtc tacaaggcag aaaaggaaga 180

aaagggagag	aagagagggc	cggggtcctt	ccgaccatag	ctgagagctg	aaaagggggag	240
taacttaccg	caggcatcta	agaatgtgcg	aaatgtatcc	tcgttacgga	ctgtggcagc	300
aatgataaac	tccttcaggg	agtagttgtc	gaagagatct	ttgattgtaa	agacgagaag	360
ggtcacgata	tccgagtcgt	agatctacgc	tgaatcagta	ggtgtcgcat	cgttgtgctg	420
aagagtcata	ccaggtccgc	tccgagggca	atatcaaacc	ctgcacgatc	atTTTTctct	480
aagagtgaag	ggacctgaag	tggcattccc	cattcccaga	ttcccgctg	gatttgcggt	540
ctctccaacc	catttttgtc	aatacaatca	tcgatttggt	cgataagggc	gggctcccg	600
tccgtaacaa	tgacgctctc	cgcaccaaga	tgtttcgcgc	aaagaaagga	tagaaacccg	660
gtgccggcac	caagttcgag	aacgcgtttg	tttgctacca	gggatttgcc	agccctagtc	720
gttgagagga	atgtgcctag	gtgtagagcc	gcttcccagg	tgcggaaacc	agtgggtccg	780
ccggagagaa	taagggagcg	gttttcagag	gttataattg	ttcttgggtc	tatggttcca	840
tcacattcgg	atgagctctc	tgaaacaggt	attaaggaga	cgggagcgct	gtatttgatg	900
taggtgagct	tctgcgcttg	ttggagagca	gaaggttttg	gtgttgagag	taaagaggtc	960
cattttctcca	tgagactgtc	gataatttcc	tatccactta	ggtcagatat	cgaagcgoga	1020
ggacttggtg	taatctttga	tcttgcaata	gctgtgaaag	cttaggcata	ctcatacatc	1080
ctcctcagtg	ttggaaattg	atTTTTcaat	ttgtgcgata	atcgtcttca	agacgcgtgt	1140
ttggtaggaa	gctggagggg	gaggccatgc	tgtgtcctca	ttgaacattt	tctcatagat	1200
ggcggtttgt	atggtggaag	aaacgagggc	ggggccatcg	ggaagagaga	gagagggagg	1260
atcgacttgt	tgaagtaact	gcgctgtcag	gagcgctatt	ctgtccatga	agctgagtaa	1320
attggattct	ctgtagctta	gaatggaaat	agatttgcta	cagtatgatt	gacttgattg	1380
ttctacagct	aagtcccgtt	cggtatggcg	gagcatgcag	cggagtagtc	acgtgagcac	1440
tagctcagaa	cggctagcgc	gccctagccg	agcccacagc	cgactttgca	cagaaaagcg	1500
aaattgaacg	aagcgcattc	cgacgcccgc	cagaatcgac	agtctacaac	gacgacattc	1560
aaccaccgcc	ccctgacctt	gtcattctcg	ctgctgggtg	ttcagtcttg	tcaagcctac	1620
aacaaccaca	accatgggcg	acgctcccgt	taccctgcgg	actcgcaagt	tcatccgcaa	1680
ccctctgctt	gcccgcaagc	agatggtcgt	gtaagacccc	tttctctgc	accgcactgc	1740
atctgcctac	gttagactgg	atTTTgggaga	tatttgcaac	ggctctctgcg	cgaaaagaac	1800

gaggaagagt tggaaatgtc tacatttggg cgcacaaacc gaatgagtcc gactgggtac 1860
tgatgtgaga tgatagggac gtctgcacc ccaaccgcgc caacgtctcc aaggatgagc 1920
tccgtgagaa gctcgccgac ctgtacaagt ccaacaagga ccaggtttcc gtcttcggct 1980
tccgcacaca atacggtggt ggcaagagca ctggctttgc tctcatctac gactccactg 2040
aggctctgaa gaagttcgag cctcgctacc gtcttatccg catcggtgct gccgagaaga 2100
ttgagaagcc cagcagacag cagcgtacgt ctatcccag ccatttacac ctcatcttg 2160
agatggcagt ggaggagcta acattcggtt aggcaagcaa aggaagaacc gctccaagaa 2220
gttccgcggt gtcgcccaagg tcaaggcccc caagaagagc aaggactaag cgtgtgcttc 2280
tcgcgaatga ttacgttggt gtcgggggtt tgggtgggaga ttgtggctag aaaactggcg 2340
cctggagtgt gacttggact cgggttcgca gcgcggactt gggcgcagca agcaaaactg 2400
gtgtccacga tgataataat gatgaacca acaaccctgt gattagcaac aaaaagagaa 2460
caaaaaaagc atgctcgtcc aaggttttcg ccatgggtata tcattattta ttgtctttcc 2520
caatctttga gcgtcgtcc ccgtcgtgac caagcggata gacaggtttc aagaggataa 2580
aaatttcaact ggattcctgc acgggtatcg ttatagtcgg ctgttcaatg cattttgttt 2640
cattcaatac atgtccatag ccgtgtccat atcctagggc caggctttga tccataccaa 2700
catctcagat tgggaagtag aggtacaggt aagtaccggc tgtaggtact ttagaccgat 2760
ctagaaaaag aaaagaatgt ccacggtccc acggagcctg tcgtgaatgt gatgatcgcc 2820
ctcagctgca agcaagaacg cccgctccca aacccagct cacgtagcct ttattggatc 2880
tggcatccac atccaccaac cggacattga ccctctgagg tattacacaa ggtactttgt 2940
tcctaaacgc aaccaattt tcttcccaca gttggcgtgt cgatcagaca gcgatgcact 3000
gcagactagc cagactagct agccaacatc aaccactgca agtaagtgcc ctaccgaatc 3060
cgagggcatg gacggggtat ccctgctgca catcttcata tatccgatca actcccagtt 3120
ttcatagttg tcagcacgca aattgcctat tccttgggtca ccgagatagc gccctcatcc 3180
aaccttatcc tccaaccagg ttgtggctgc agacagaact ccgctgctgt tcccttctca 3240
agttgatctt cactgtagat ggcgccact attcacctac taccggggga ctagcagcta 3300
gagcctagag gctggaacac ccagatgcc tcccaacca ataacgaact cttgatttgc 3360
tcgagtcgct gcgtcaggac ggattcgaca accccgggag ctctgtgagg acttccgacg 3420

ggacgggacg cgccaaggag aacgtgtgcc gttgatactg taagtaattt ggacctccgg 3480
 ccctgagtag cgtgggtttgc tcgtttttaga gatctgtaag gtatgaggga ttatttccgt 3540
 tcttccatat gccttagtcg ttttgaggag tagttgtaac atacacgcag ctgatctagt 3600
 atttgccaga ggctgcgtgt gtggcataa 3629

<210> 2259
 <211> 1581
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2259

tcaagtaatg ataagtcaga ggatatactc gaccaggttc ataggatgta tcaggaaccc 60
 acctggctgc cggccgacac accagcgctt acggccgccc tacgcaggct tgtcgacaaa 120
 gtccaggaat ggcgaaagca ggtcgaagat tttgatattc tgatagccgc acgccgagac 180
 ctgctgcacg aagacgcagt acgtaccaac caggcagaac aaaatctcgg aactcctgct 240
 cctcgtagta cggaacgata ctctgcaaac acaccgagaa cgccgcccgt gggttttgac 300
 caagggacac cacgtggcag acgcgacctg cggaacctga catcgccaca gcgcagcatc 360
 gtcgggtcgc ctttaagaga ggttacggta aacaaaaccc actcgccctc tccccgcgac 420
 gcttctgagg ctgcttctgc ggcggaagag ctgcgcaagc gcctagcggc accgttcttg 480
 ccagaaagca aagtttagtac attcaacgac cgcaccgaca acagtgcgca agagccatct 540
 ccagcagatc aagaggtagc ggtcacggac gaagaggagc ggaaaccgaa agctgagacc 600
 gcaagtctcg gccacgtcct gaccaacggt gtgatcctgt acgagtttct cctggagatc 660
 tcggcagccg tacaggcacg cggcgctata ttcgaggaag cgggcttcca cgggtgtaggc 720
 tcgtctctgc cagttgacga ttcctgaaac tatgcctaag cggcgggctt cctgggctgg 780
 cccgagcgac gcctttgtat ttagacctgt tgatatccaa gcgagccaaa catttgcgaa 840
 ttgcaattgt attataaccg atcatataca agacctacc agagtacata tcacaatata 900
 atgagctggc ggattccaag atcagaaaat ggttatccct atgtcggtag gctattatcg 960
 attatcaatc ttggctgcct cccaagttag tgcctaacct tccggaatca tccggaactt 1020
 gacgtccttg ggaatccgga aagatggatg gttttacccc cgagggcagt gctactagt 1080
 ctgatcatca ggattccaag gagtacaagc ccagagtact cctaaggcaa cctgactcgt 1140

agttgggagt tgagaccagt ttcagccatc gtaatggggg cgcagggcat gctctcattg 1200
gctgctaatt caggaactgc gcgagctgaa gaataattcc attcaatatg gtagcaggga 1260
atgccgttat gtagaccatt atcttcattt acaaacacct ttgatggata aaaccggtaa 1320
gagctttttc atgctgctct agaataaagg tagagaataa tggtattgtt ttaagtgggc 1380
tgcttgcgca tctttgcccc ttttctccc ccaccaaagc actcgaacta tggagggcgg 1440
atcatggctt agattttacc taaccggcgc ttgatgatta ttggccccct gtatcatttt 1500
tattgtttga ctgcaaagt agctgcttat agtcctgtga atttataatt ttgcttcgc 1560
cttgggtctc atctgattac t 1581

<210> 2260
<211> 3144
<212> DNA
<213> Aspergillus nidulans
<400> 2260

ttgactcggc ctcccgcgcg gatatccga agaatcgatg atcaaaggca tctgggcgcg 60
cgaggttaatt tccaaagaat ggcccttttg gctctctctg cagactgccca cttttaagcc 120
gactgttggg cattggactg acggtgcact ggccagatc taagattctc cacagttctt 180
ccacggaatc ggcttgggga tateggcatg ccatcccagt aaccgcgata ggcactgcgg 240
tggctctcggg ggccgtgaca tttaccccgca catcaagtgc agtggcggac tgcattctgc 300
gtctgccatt tatgtgctcg cctttgttga actcaacaat gttcaacata cgacatctag 360
cgtgtcgcgg tacgaattgg cctgcaccta tggggataat gcttctagca tccgattgcc 420
ccatgttgtc tagagtagcg gtgacggtga tcttccaatt tgcttgcgtt gtcaagatcg 480
actcgactgc aacagtgaag agcgagtcag cttcgcacac tctcccgttg atattggatc 540
tcggcagact gcgcttgtga cacttcgatg gcaggcaaag tcggctattc cgtcacaag 600
attgcaaat atctccaca gcttgagtgt ggttcgagtg atggaatcgg cctctaagtg 660
tcgtagtctt caccgagagc ccatgtttct ccagctcctt tgccaaggaa acggactgag 720
agtcccaaac ggtgaccgtt acagcgtttt catcagtcac gcatgaaatg tatgcctgtc 780
gcgttcatta acaagaagaa aagaagaata taagcaagga acaagcagca ctgacacctt 840
gataacgagt taagacttcc gtcagaagct tatgtctctg agcagttctc cacctgacgg 900

cgattgacct tgcaggctgt tcacaaagct cgtccaagtc cactgcagcc ccaatgtaga 960
 cggcgagacg caagacggtg ctacaaactt tgccgaattc atcctcgttg tccgaccagc 1020
 atgcagctgc gatggctgcc aggaatccga cgcagaatcc ctggatatcg cagacgtcgt 1080
 agttcttgtc ttctttcagc tcgaggaaat cgactaaatg tcgcaagact gtggctggta 1140
 ctagcaagaa attcatcggc tcggccatat caggccgtag cgttccaccc ccgagaaacg 1200
 ctgaaagctg acggagacgt gcgtcccat gaagcttctc ggctgctggc cagagcctca 1260
 ggatatcgtg ccagacggaa ggtaaactc ggattgcgtc gtgaagccag tttgcattcc 1320
 gctgattcga aagatatctg cgtatgtgcc cagctggcag ttcaacctcc ggatatttcg 1380
 gtccgaaaag gaccgaaacc tgctgcaaag tattatcatc aagggacccc atctttcgaa 1440
 ataaagtgat cttgactaaa aggaatgaga cacagtcgct taacaaagtg tgcttatgaa 1500
 agaaccaaga accaacggcg ttgaagcagt tgctcaaatg actagtcccc gactcttaga 1560
 acttgaccga gaatttcaag ggatatagcg ggagcccatt gaaggaaccc tctaattcga 1620
 ggggacggtc tacttgaagc tcaagagggg ttactgcagc agcgctgca ctaccgcca 1680
 tagcgggtcca agaattccca acctattcct gccagctgca agtgaggaat tttgtcgaga 1740
 tctcgtcaat aaagactcag aagacgatat cctgacatat tgttctcaa acaacgcctg 1800
 tatagggcaa agtgcgcata gcgacagtc gcccggtgctg cacgaaaggg cgctgctat 1860
 ttcagcgtcg atcaacagcc ttctttagcg cagatttcga cttctgcagg agccactgtc 1920
 tggttacata cgaccaattc ggtccaattg ccagatagct cgttatgtat ataagctagg 1980
 gcaaaggatc cacaccactt tggaccgaac cgcccgaag ctagaccaga agaattgttg 2040
 cttctcagtc aatatgcggc ccccttgcgc caggctcgag ccaagtgggc acgcaaggct 2100
 tagtttgcat ttgcattgtc ccaagtgagg aaccagatcg gactcagatc aaagacataa 2160
 cccaaaggac ggcattttgt acaaccctaa aaagcgttga tcgacatata aaaacagcct 2220
 cctttgctga ttgccaacca cagctcgtgc ttggatccgt ctttccacta cttgaggaat 2280
 gaacgggctg atccatcatg cataacacat ctacgttcct tgtagattat gcccgagtaa 2340
 ttccgatcgc agcccttcac gctcaacgtg gaatcatctc gttgactccg gactgtctag 2400
 ctgcaccgcc attcgttcg tggtcgttaa cagtagctgg caaggtatgg cagctctgca 2460
 gcgtagtata acatacatat ttacataat atgatactct ggcgcaacgg atttccttac 2520

tgttcttaaa ctcttcttat ctttccgtac gtgtccatca ctctacaatt ttgggtgctgc 2580
 ggggtctctc cgtgatgagt gctcttaatt ccatactagg ccacttatct ctgctattca 2640
 agttttattgc tcgttattgt catcttcatt ttactaact atccactcat tatagcaagc 2700
 acaagccgtt ctcaagattg aacgatgata gcaatgcaac ccgaaacca actaaaaacc 2760
 gcccttaaga acggggttga cccgaacatc ctctacaaag accctttaac aatcgtaaag 2820
 gaggctatgt gtactattct cgagaagcac agcaagatcc cagtggacaa agtcgtcagt 2880
 catgtcaaca aggtggtgag taaatcagcc agccctttca aatctgctag tctgacttcc 2940
 tttcgccaga gagatcgcgc ttttgccgtg gttagtactc tgtatcccta tgcactcccc 3000
 aatctgacct aatgaaagtt tccttatgca tgcattgggc aattctcctt tgtcgagctg 3060
 agcatcgccg catcgccgta ctatcccgaa atgctcgagc gcgtgaagaa tggccacaaa 3120
 cttctggacc taggctgagc attt 3144

<210> 2261
 <211> 1796
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2261

tcctatgctc gttagctcat cgataagatt agactgatga tgaaatgcgc accgttctgt 60
 tcggtaattt ctctactttc cataccccca cgctgaaatc cagggccgtg gctgcgtaca 120
 tgggtctggt cttccccgac gaaagaacct tggacaatag cagcaccaga ggcggattca 180
 ccaaacgtca cttcggaaac gatgttggct tctactgaaa ctgtaccaca cccggaacag 240
 accttctggc catcatctc aatgatatga ggggctggac agctcgggtt agggcatgta 300
 gtggtcttgg ggtgagtggg ttgcttttgc ggctgcggcc gtgcaactgg ctgggggggc 360
 ctgatggccg tagcaccggg ggatttcaga ctggccaagc ggccaacagg aggtttgggg 420
 cctcgcgggg gaacgggagg acgcattcca ggtctcgcag acatggtgca actgcaagtg 480
 gtgcaaatat taagagatag gggtaggcta tagtggcctc agagctcgac aactctccta 540
 tgcgagcctt tgcacgggag agtagatgtc caagaagata tagtcctgct atatcgatcat 600
 tttttatcga taaattgctg atgtaggaac tagacaacag ctttggatac gaagctcggg 660
 atagttccga aaacggcagg aatgtcagtg attagataag gcgggcaatt ttcagcgctg 720

gggcgagcga cgctgaatac gcgacaaagc ttgaaatata agaacaatag atgttataac 780
 tagtaaagga gaaagagagt ccttcaaata gcagaagata gacaagacaa cttttgacaa 840
 attggggatg gagcgcggtg gatgaggatg gagagagctg gatggcgcgga cgcgagaatc 900
 gggacgcagt ggcggaaaat tctgtctgga tgggtggagtg gaatggatgt gtcacgtgca 960
 caagaaggtc cggagtcgaa gtgaaggaaa acagatcctg aagaggataa aaccagccgg 1020
 ccgttcgata ctcggtcgct gctgggtttc ttttctttc tcggttccat tccaaggata 1080
 atgacaattt gatagaagca aatgcattgc tcatatgact agcactaaca atgattccca 1140
 tgggtctcatt gctcatgacc tccctggcgt tgggtctgggt gcgcgttttg tgcgcagttt 1200
 agcctcatcc actgtcgatt tccacatcat ccgcacaaaa cccgcattcc agcccattca 1260
 ccatectctg tcattgagta atggtaatag catagcagag tcgcccttag atatttaata 1320
 atgtcacaac ccagttccag ttcaactttc ttcaactttt cagatctctc cccccctttc 1380
 aatctctcaa caccgtacc ccttcagcc aggaaaaagg aagaattccc agattcagta 1440
 caacatacct ccacatctc tccccatcat ccacatctgt ttcttcggta cctctgcgga 1500
 ttgagcaggc tggaacacta gccgccactc gtcatggcgc agccgggtga aagacaccgc 1560
 agtacgtttt ttatcagtaa cgtgcactgc acctcctgcg tcgcgtatat caatcaggtc 1620
 ctatcgaaa cgcaaggat agcagatata gatgtctcga tcttcaactca cgaagtgcac 1680
 gtcgtccata caaagggaac aaaccgctc tcgatagctg agatcttggc tgaggccgcg 1740
 ttcgaggtcc accatgtcac gaccaggaat tcagcaggcg tcacatagat cgattc 1796

<210> 2262
 <211> 1225
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2262

gatagagatt gagtgatgga aagaagatta taagtcaact ttaagaaaaa aaaaagagat 60
 ggtttgtaa aaaaaacagg gtgcaaagag ttggcttaag catatttaag ggggaaagct 120
 atcggggacg caagtagacg tctatccaag ataagggccaa aaaagatatt taaaagcgtt 180
 aatgtaggag tgggagttga aaaaccaatt aacaaaaaa aggaaccgtg agtaaagtta 240

aagatgtagt agcatcgatc cacataccta cctaggctat gaactgattc gtaataagag 300
gtacactaag atcgcttcaa gccaaagcag tatcaaccca ccaccatggt aaccgcgtct 360
gaaaaactcc caacgcaccc gaaaaagacg agcattggcc aaatatctcc ctatcgctcaa 420
gaataatccc gtccggggccg acgaacgcca cgtcgagatt caccgcccag acggccttgt 480
gagcttcctc ttttgagtcg tcatagcaga gacgcaggta gaggccttca tctagggagc 540
ctgtgtagtc cgcgtagggg cggagttgct cggggcggag agggcggagg attgtgtcaa 600
tctgggcgag cgttggggcg ctttctttct cggattggga ttgggtgttg tagggctgta 660
tacagttcat attcacatta gacattcgta tcaatgtgaa tattacaggt taaaaaaaaa 720
aaagtggtta gggggctctg gagaagaaag gaggcgcacc tctcgacctt gacttcccag 780
ctccaggaat tggcgtatta gacgggtgcg acgctcagag ggggtctccg atattggcgc 840
ggggtatgct cctgctggtg ctggtctgac ggagtcccat tgtgaaagga tgtatttctc 900
tagtgaagg gagcccaagg gaggaggagg aggggcttcg ccttctagga tttcgagggg 960
catgatgata atatctgaag agagtagata ggaattggtta gacttggtta accatgggtt 1020
ggggcggggtt ttcaggccta gctaatacgc ccgcgcgggt tttaggggtg gttacctgga 1080
cagcaaaccg cccatgggtt tagcaaataa ttctaaccga acccaaataa cctaaaataa 1140
gccagttatg catatcatta cttaaatac cggtgatcta catagctaag gagatncaag 1200
tcttgtggtt cagaattata aacaa 1225

<210> 2263
<211> 1215
<212> DNA
<213> *Aspergillus nidulans*

<400> 2263

cgacacagat tcagccggtc ctttccacct gatcggacag tgccctaagta gccgattatc 60
tggtaggcga gcgttgcgag ccagcgcag ctggcggtga tgctcaacgg gtccatgccg 120
ggccatcacc tgtggaaata aactggcgga ccaaaattcg agagaaaaaa aaatgggagc 180
atatcaaaca gcggcagggg cagtcacttt tatttatgat ttaatttatt ataaatagag 240
gctgggctgt gtgactgcag aaaaccccca actttgctgc cgcaagctag tcagaggggc 300
taaaaagcag atcagcgaat cccaccatct gtgcagacac tgacggcaag ccccggtcat 360

acactgaaat gacaggaatt gagaatagca gaaatggccg gagctgagct tgcacaagcc 420
 aatcactgct gtagttgagg ctgagatggc tgcagccagc tcgtgtatgg gtctagcccc 480
 cacgagtatc tccagccaat tgaaggccct aaaaacgtga cgaatgcatt cagactgctg 540
 acttgcaatg acttattttg atctgatcta atttcttcaa gtgtgcttat tgccgctcat 600
 gccggggaat actgctctag tactagagta gtacttatct ataatctgag actcacaagc 660
 ctacagccgg ctacacagcc tcacggttgt cataagcata atacaagctt atattatggc 720
 ccttctgcct ccaccaggca aacagctgca tagggcacgc ccattcccc gtctctgtaa 780
 gcagtcaccc gcagatcttc atgccccttc cagaacccat gataccaagc ggttgctcca 840
 gcctcgccag tttattccgg gatctgatgg cctccacac cggcatgcca ccgatacttt 900
 gctgccggat gatctgccgg agggccactt tgcccgggct tgccgtagag attctcgagg 960
 tacgtggccc taggtgccgc gtagtcctcg tggaagagcc cgcgacggcg cacgtcgggg 1020
 atcagcaggt cgatgatgtc tttgaacgag ccgggtttga ttgcgtaggc ctgtaacatt 1080
 cgcacgagcg cgacgtccct cgatagggtt taaaaaggaa aggaagaag aggcagtat 1140
 aggaaaaaag taaaaaaaaa aaagaactgg aaagagaaaa aaaaataaag agaaagatat 1200
 ggataactta ccaga 1215

<210> 2264
 <211> 2019
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2264

tggggtcctt cacgatcggg taagggtgccg tcgagtcaaa catgaaggcc tctttcggat 60
 ttgcgatact gcttcaagag ttttgttctg tctagggccg ggtcgccata gactgatcga 120
 aagaggagag gtttgcgagc aggcgcgaga tgaactggtt agaccatgct gaaaccgtat 180
 tggtcgtgac atgctttag agtttcaa atgctgtcctt tttgtcagcg acagattctg 240
 ttagggcttt gttgattgct tctgagacgc cgatagtgtc ccatgggtta atgtggatcg 300
 cgctcgataa tgcgccagcc gttccggaga attcggaaag aatgagcgga ctatggtttt 360
 cctgctggca aagtatgtac tccaaactcg tcgtgttcat accgtcgagg actgttgtaa 420
 taaggccgac atcgccacc cgcaacaacg cgaagtattc gtgcggcgag agatattgag 480

gataaatattt aacaggagaa aaactcagcg acccgaaacg gccgttgatt gtactgacta 540
agttggagat ggggctggca atcttttggt cttctttctc ctcttcgacg cttgtcggac 600
tggtgacctg gataagtacg accttgtcac gccattcagg gaatcgttcg aggaacgtct 660
cgaaagcttg gagcttctgg gcgaccccg cggcactgtc taggcgatca cggccaacaa 720
tgattttctt ccacgcgtat aactgtcgca acccttctac agccttctcc gtgtctgcgt 780
tttcaaacgc aatcttctgt attgcttcag catcgatacc gataggaaag acatccacag 840
ccacgtgagc accatatgca tcgacgccag ccgagtcgga ctcaaactct agtacgcgag 900
tacagcagga cgagaagtga cgcgagtagg agaacgtctg gaagccaatc atgtttgcac 960
caagcacgcc tgtgagaatc tcctttcttt tggctaggca ccgcatgtac tcgctgctag 1020
ggaacggcga gtgcagatag aaaccaatgt agatattcgg aacatgctgc cgcagaatgc 1080
ttgggagcaa aaataagtgg taatcatgaa tccaaacaat atccccctcc ttgtattcct 1140
ggagaatacg ctctgcaaag agctggttca ttctcacgta gtctgtccaa gaatcgcgct 1200
cgaacctgcc gtcagttggt ccattttggt tatagtgcag aagagcatag agctctttct 1260
ccgcatagcg cctccatctg ctttgatccc caagaattat tgtgtcctcg ggcacgtcgg 1320
attcatctga cagccatact ggaacaacct tgccgtggcg acttgaactc aattgatcct 1380
ccaacctttt ccgatcatca ggtcccacag tcgaggtttc tgcaacggaa ctatttgatt 1440
gcagcaaact tatatcgggt accacaggag ctgatccttt actaagagat cgcgaagtgt 1500
tgtcaagagc tgcaggcaag tttgtattcg cattggagtt aagtgcctgc aagggattgc 1560
tccccctggt gagtggttcc acttcaccgg tccacccgac aagtgtatga ctccagcccg 1620
atctctcgga ggctaaatat gcaaatgaat cgaacaaagc agaagatcca ggccgaggtt 1680
tcaactccta cacagccgta ggtagagct aatcatttta tctttgatga cgcggaattt 1740
catacccaat cacggccagc ccggaagtat aacttatgtg ggatacagaa agcagcactg 1800
atgatacgac cagaaaggtt caagccctga tactgcttct ggaaatcggg tgctcgcatt 1860
gtgagaatct cctttaagct caggcgatgc agcaaatcgc tccctgattg ggtgccttta 1920
tcggcttctg atagagcgga ccgggtcttt gaggcattgt taaagttcga tgagacattt 1980
ggagcggaag cgtcagtgaa ggaatcgaat cggacctct 2019

<210> 2265

<211> 1045
 <212> DNA
 <213> Aspergillus nidulans

<400> 2265

```

accaattctg caccctcagt atagtggccc ttggccatgt tgtttccgc actggactgc   60
ccgtagatga aattatctgg ccgatacaaa gcaccgttgg gaccggagcg gagggcatcc  120
atggtgccgg gttcgagatc gataagcacc gcgcgcggga cgtatttgtt accgccagct  180
tcgttgaagt agacgttcat ccgttcgagc tggagatcgg agtcgccagt gtaactatct  240
gaattagcca ggtaaaagaa tgcagttgga ttggattact tacattccag aggcgtcgag  300
gccatgttcg ccggagatgg tctgcctggg tagtgtaga gaacgagcag gaacgagaat  360
tgtagataga cttaccagaa ggcagaacca acctgggtac cctgtgaagg agagagactt  420
cagtatcatg aggataattg gctcgagatc ggtggactta cacactggcc ggtctggaga  480
tgaacctaa agatgggtcag ctggataaac aattgtagtt gttggaataa actcacaatc  540
tcacgcatga tgggcttgaa gggatgggtt tttggtgaa ggggggtacaa ggaagggaat  600
taaagaagga gaggtgggca ggtcagatgt tgagcggctg cagtagtacc taattgggct  660
tactgggctt actgcgctaa ctaggccaac taggctaact agatcaaggc actcggctag  720
gccccgaagt caccgagcact ggccactagc agatcaacta cctgcttcgt tagtagactg  780
tagctctaga agccgaatca aagtgacct tgacaacctg cggatacgaa atgcggcata  840
tgccgcatat gccgcaaata ttggctctgc agctgtacgc aaaccaaag agtcggacgt  900
ctcctactat cacaccgcta tcgattcccc catccaattg tggetagacc ctgtaaacag  960
accggatgga cggtttccga ggtggagccc gctacggaga agatcgacca actttgtctg 1020
aggttcttta tttgttgcc tttta                                     1045
  
```

<210> 2266
 <211> 3140
 <212> DNA
 <213> Aspergillus nidulans

<400> 2266

```

cattccttcg tcaggagtg tcttgtcaat aaacctcaa agcgtcacc atacaacatg   60
cttatctgac atccttggtt atcttcatta atgcaacctc ctgactcgga taacctgac  120
  
```

gtaccat tttt tttctcttgc agatggcgca tctggcgacg tcacaccacc agttacagat 180
 gatcaggaag ttgcggaactg ggtcaaagat aggctggaga aacgggttgaa tgggcttctg 240
 aaagacgaaa ctaagccagc actgcacgcc gttccattgg atgccgtgcc tgggagccccg 300
 cttcttgatg accctcccat cgctaacctc tcgcttgctg cctccatgcc agaatagcc 360
 tttacacgcc tccgttcacc accattatat gaagacacat agcaaggcct acggcctacg 420
 catttgcctt gtttcattaa ttctgccata cctctttttt gctgctgttc cgacgcatac 480
 ctccaagaac ttctggcgct ggcgccactc aggcagacag tctggctttt tgaaatcggt 540
 ttgtcagcta tggggccacgt ttggtggtgt ttgtatgaa agaaaaccgc tagctgatat 600
 gaacgtgcgg tcttgcttcg atttttccta tgtgatgagc agggcctact caatacaaca 660
 gtgtatgaat gctcccatgt accgtattat cttccaattt cagtataacc agaaggatcg 720
 agcttgtgcc atatgcttcc acaccttagt aatagtctca acattcctaa tgcttatcaa 780
 ccggcataat aagtgcctgag taatgttgct agtctacgat ttttttgat gagtccggga 840
 ataaggcaaa cagtaaaaaa actagat tttt tacagtgtag gaggttacta actctcagtt 900
 aacttgaat aatcttttgc ttctgttggt gcattatttg tcagtattac tcggttattt 960
 tcccagcact ggtggctgat agcgtcatcc tgcgctaag ctgcacctc cggcttcgct 1020
 ccccgccagc tttttctctc caatccagcc tgcagattcc cccctcccc tccttttatt 1080
 ccttcgggtg cccgtcaata atctccctcc atgctctctc gctcctcgct tcggtcatta 1140
 agtgcccaag cgtcgaagat tcggctcacc cgttcgtctc tcgtctgttc gccaatcact 1200
 caatccaatc gagcctacac aagctacggc attgccacta gaaaccagaa gagaggagtc 1260
 ctggattctt catctcgctc agctatctcc actcccactg ggctgcgtct ggccctcgctc 1320
 acaagacaat tttcatccac ttgcctgca gcgaactcga gcaacatgcc gccggtggag 1380
 aaaaaacagt atgactatat cgtgttaggt ggtggtagcg gtggtagcgg tagtggccgt 1440
 agagctgccg gttggtacgg agcgaagaca ttgattgtgg agagtggacg cgctggcggg 1500
 acttgcgtta atgttgggta tggaatgact cgacctggt gaaccagcgc attgctgatt 1560
 gatacccggt tagctgcgtc cccaagaaga tgacctgaa ctctgcttcc atcaccgaat 1620
 cgatcgaggc cggccgccac tacgggttatg acctccctca taatattgac gtaaaactaca 1680
 cacatttcaa gaaactgcgc gactccacaa ttgagcgggt gaatggcgta tacgagaaaa 1740

actggggtaa cgaaggaatt gacctcgtgc acggccgggc tcgcttcggt gagaaaaaga 1800
 ccatcgaggt caccaaccag gacggcagca ggacacggta cactgcgccg cacatcctaa 1860
 ttgcgaccgg tggccgaccc agccttcggg atatcaaggg ctctgagcac ggtattagta 1920
 gcgatggatt ctttgagatt gaggagctgc ccctaagct tgctgttggt ggtgcggggt 1980
 acatcgccgt cgagctggca ggtgtcatgg gactgtcgg cgttgacaca cacatgttca 2040
 tccgtggcga gaccttcctg cgcaaatcgc atccaatgat ccagaagacc atgacggacg 2100
 atacgaggcc gtcggcattc acgttcacaa gaagcaccct ggtatcaagg aggttcagct 2160
 ccttcgcgac ggcaagggca aggacaagct tctcaagctg ataatgaacg atggctcgga 2220
 gatggaggtc aacgaactcc tatgggctat cggccgtgtc cccgaagttg aggatttgca 2280
 tcttgagatc cccggtgtgg aactcaacaa gagtgggcac gttgttgtcg acgaatacca 2340
 aaacaccaac gtcgagggca tttacgctat tggcgatgtc acaggtcagg ccgagctaac 2400
 cccaggtatg ttacagcctc tactcttctc aaatccattg aggaaatatt cttattaata 2460
 tgtcaacagt tgctatcgct gccggccggc aactcggcaa ccgcctcttc ggcggacccc 2520
 aattcaaaaa tgccaaactc tcttatgaca acattccaac agtcgtcttc tcccaccctg 2580
 aggtcggcac cgtcgggtctc acagagccgc aagcccgca gcgcttcggc gacgagaacg 2640
 tcaaggtcta ccacaccgc ttcccggcca tgttttattc cgtcttcccg cccgaggaga 2700
 aggcgaagaa cccaactgag ttcaagatgg ttgttcagg accagaggag aaggttggtg 2760
 gattgcacct tctgggtctc ggtgttgggg agatgacgca agggtttgga gtagccgtga 2820
 agatgggtgc tacgaagaag gactttgaca gctgtgttgc tattcatcct actagtgcgg 2880
 aagagcttgt tactttgcgt tagttggata gaaggaattg ttttcacata gaacctctga 2940
 atgaggttat gccggagatt attgataatc gaggctgata gtacgtattt gaattttttg 3000
 tatttatgct tgtacttata agatatatga aaatgagcta catatcgaat gtgttcgctt 3060
 ctcaagtatc aatagatcgc aagtactaa cgatgtgatc aaggctatct tcgtaagggtg 3120
 taccgctag aaaatccgct 3140

<210> 2267
 <211> 896
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2267

caaatgcaaa acagacaaaa agaacaacca agcgtcaatc ttccgtacga gtatctaagg 60
tcaaacagga gcctgagatc aagcaagaac ctgagggtgaa gcgggagctt gaacaggata 120
taactatata agataacaat cttgaagttg ttcttgggcc tgctatacag aagaaatgct 180
tatttttaat tgcattaaag gagaaggagc cagagagaga tattcaagag aaggatctag 240
agcaggaact attagagtta ctgtttgttc ctgggaagaa agatagagtg gcttattata 300
caagaaagtg ctatatcctc tagcaggagg atattaagcg ctctgcagag tttggcattc 360
taatttagat acagagatat gatgttttaa cagctggtaa tgaggaaggc attcaacatg 420
gccatccatg taatttgtac aaaggcattt agtaacacag ctcaaagttt gaaatctcta 480
ctgttttget tcttctctt ctcttcttc cttccacatc tttctttcta caacaaccat 540
caccatggcg tacgagactc ctgttcccta tcccctatca ttaaaatcat ctgctgacta 600
ttttacttgc tctgtacgag tatactgctg cctctgtagc ttgtatctcg tccgaagcag 660
acaaaatagc ctccaagctc ctcgtaacc caaccgcgcc ccctccttcc ctgccgaccg 720
gcctctcagt cgagaagagt gcctgagcct ctttgcttt gttaatagac gagctggacg 780
agcaccaact gctatgcttc cacttggggg tcaagagcta tctgggtata tcatacagat 840
atacagaggc attggctggc ctttcttgg cgggattgtg agtttattcc gacaga 896

<210> 2268

<211> 1791

<212> DNA

<213> *Aspergillus nidulans*

<400> 2268

tgagattgtc ttaaataata ctgacgccgg ggcttacta ctggcgggcc tccgaccga 60
cggcaatctc tctgacgttc cttctctggt gtgtgctgag tgcaccagaa gtccaaaagc 120
aagtcgaggc cgaggctgcc actcttgaag gtgaactgac cgacgaagcc tgcgagcggc 180
tgccatcct gaatgcggtc atcgacgaaa gtctacggct atacggggcg gctccaggat 240
gcatgcctcg cagtcacca tccgggggtg tgacaattgg ggggtatttc attcccagc 300
acaccatagt tgctacgcag aactggagtc ttcagcgcaa tccgagtatc tgggatgatg 360
cagacacgta agtgggaagc cagtggagc gaatcaacaa aaaaaatgcg gatggcagtg 420

ttgatacaga ggggctaggt tcgatcatac gcgctggcta tccaactcga gaatcactga 480
 ccaagccaag ctggctttca acccggttcgg gtacggggca cgccagtgcc taggtattca 540
 tctcgccgt atggagatgc gtctggctgc ggccatgttt ttctcggaat gtgttggggc 600
 gcgattagga cgatcgggtga cggacgagag catgcacgtg gtagacagtt tcatagcggg 660
 cgttccccgc gatcgtcgat gcgccattac actgacatag acgccgattg atggaacgag 720
 acgctgtcgt ggagagtctg gcgtaccatg ccagacgcac caacaatttt ctaactcgct 780
 tcggatagag ccgaccgatg cgcgatgttt gtcggggcat actgttctat ggcaccgccc 840
 agattgcagc tcggttagac ctgattttta gtcgcgcgat acaaattggt tatataagca 900
 acattagtca tgactgtcac gcgaccataa agacgatgat gagtttcaag tcgcgtcacc 960
 tgcctaggg gtcgagctcg cttagtcatt atttagtaag ctaggtatag ataggcggca 1020
 acgttgcca ccaataatga caattgtccg tccctttcca cagtgcctagt tagtcacgtg 1080
 tcaaacccc tacgctaagc ccagtttagc gatcgcggtt aacattgacc ttggcggtcc 1140
 gaatttccat taaaaatact cacccttgtc agtttagtca tgcgctctgg atagtgatat 1200
 ttttccaatc ccaagccctt tcttgacttg tgtttcttcc tgctgttctc gtagccacta 1260
 gtagatctca ggcagatgtt aaactcgcac cggcctgttt agaccacgca gtggatccac 1320
 tactgaatcc tctgcgcac tttattctca cggccagcaa catgccagca ttaagtaaga 1380
 tcatactata agggatcatt attacctgga ttggtagagc agtttagagc tggtagtttg 1440
 aattgataga tgccaatgat taattatgtt tgtacaaaca agaccaattc tagtactata 1500
 gacaaacgaa agagaaatat atatgtgctg gtatatagtt ttgcgctgca acgccgagcg 1560
 aaggcagtga ccaaagcctc agaaagatag atgtctatca agcacgaaac ggaagggcct 1620
 tcttcgcaaa cctcccgaca agctcagaga aatgcctctt actgaaaccc gggtagttcg 1680
 ggggagtcca gatgggaggc gtgccatggc agcgggtcaa aggctgtct gcaaacggac 1740
 gctggtcgaa cggcatgcca atgaacttcg ctagggtgac gcagcgccag c 1791

<210> 2269
 <211> 2543
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2269

acaacaactt caataatgta gtccgcagcg ttggtaatat tttcaggctt ctgcccgat 60
 ttcgcaaagt agtcgaagat agagtgcctt gcctctccaa cttcgccaaa ataataggtc 120
 ttgccaccgg gactcagagc cagcactcga tcaaacatct cgaactgctc ctggtttgc 180
 tgggtgattg tgcaaaggat tgccagacct tggtcggcga gtcgtcttag tagggcacia 240
 atactagacg cagcctggct gtctaggcca ctagtgggct cgtccaggaa tagtagcagc 300
 tcaggctctg caciaagttc aacgcgatg gtgacccttt tcttcttttc gatgtccaaa 360
 gagccgataa tggcgttctg caattccacc aagtctaagc tctctagcac cgttcttgca 420
 taagccaact tctctgatc aggtacagtg gagtcttgac gaagcagtgc agagaactcg 480
 aatgcttcgc gaatgggtgct gctttcgtca tgaatgtcca tctgttcaca gtagccaatt 540
 ctgatttga aagaagagtc gataggctct cctctacat acatcgtacc tgtaaggctg 600
 ccagagcttt gcctctgggt aagcgcagtc aacactaaga atgtcaggac acaatcctgg 660
 gatgagcaaa aacacagacc aggttcactc acaagtcgat ttgcccgctc cagaagctcc 720
 gaccaaagca gtcagggtcc ccggtttgca atatccacta acaccgtcca atagcttgcg 780
 attttccttt ccaacacgga caaacagttc caggttatcc cagggtgaagg ttgatttgg 840
 ggcagtgagg gctccaacag acggtccatc agtgtcagat gctgaaggcg atgtttgatt 900
 gacctgcaca gggcgctctt ctcatcact aatgttcgca atcttctca gctgttttcg 960
 agactttttg tactggactg gtccggcact gtctggttcc cattccataa tttcactcag 1020
 aaggcaggta gcagcaacgg aagcaacagt gaaaagacag aggataccga agttgcgcca 1080
 aacatgacta aaatagaacc cgtatttgac tgcaagatag tcatcgccgt tgactatagt 1140
 gcttccgacg tgacttccag cataagcaca tgtctggtag gcaatgtcag tatagacagg 1200
 tcctgcaggg acaaccgaag ctggggagca ggtaaagtgt gtgttggtgaa acctccgcag 1260
 ccatcattgc ctctgatgta tataacgctg gtgtgatata ctaggatgc attagtttta 1320
 ttatatagac attaggtgag atactcaccg ctatccatcc gaccagggga acatcagcca 1380
 tcatcttgct cacagagagt acgtaacctc caaaaacaat gcaaagcaga acgaggaatc 1440
 ctgtgtagcg gagggcaacc tcgaagttag aggacgcggc ggcaaacagc cggaattgag 1500
 ctgttagaga tatcgtgcac atatagatga acaagaaatc gatgaagaag gccccgcct 1560
 atgatagagt tagcgactgg gtgcacaatc gcttggcaga tactcacatc agacttcaac 1620

cctgacagaa aataaacaac cactaggtag aggaaagtaa ggagagctgc aatgaagata 1680
tctgcgacga ctggggccag gcacacagca ctggggccgga cgaatgcaaa tttcttctgg 1740
cgactgagga tgtcacgtcc ctgcattgct tcttctaatt cagacatttg gagccaggcc 1800
agaagaatag atgagtaaaa aatcacgccc cctcgtgagt acatcccgtc cgtgggttgc 1860
ggttgggtcat aaaacatgga cccgacaagg agtccgtaaa tgaccgagga gataagtttg 1920
atgtacaagg gcgacatgtg gcctctaatac tgccatatct gacgttttagc acataatacc 1980
acctgtcggga agagggagat ggtatacggga gatttggagg acacgaatcg ggatttgtcg 2040
gtttggaggg cctctttgac gtcttctaag ctttcatagt ctgtatcaga gtgcgactcg 2100
gcgcggtctcc tcccaccgaa tccctggctg tcatagctcc gtacttcctt ctgaacgttc 2160
atgaacgcag cgctctttct gaaagcttgt tccagctcaa tgggtccttt tgggtgcgcg 2220
tgttcccacc cttctcgga cttccttctt ttttggacag tagaactagt aatgagatca 2280
tatgctgcaa gcatgcgaac aactgatct gtaggatcat gtaaggatgc agtgccagcg 2340
tgcacgggac ctaggtagag cagatccctt tggcgggtgtg aacgccagcc accagggcta 2400
tgtcatttat cgcggaaca ggtggttagc cggtcataag cgtggcatat ccgcaagtgt 2460
cggatcatgag ccaagaaaac cgggcatagt ctagaccgaa taaggcatca agacctcggg 2520
tcgggtcatc aaagcacaat cgg 2543

<210> 2270
<211> 1984
<212> DNA
<213> *Aspergillus nidulans*

<400> 2270

cagcatcata ttcaccatgt aaaatactgg tttgcgtatc aggtgacata ctgtagatgt 60
tcatcttggga gtgaccgaca accttcttga tctgtccctt ttcctcgaga tcagcgaggg 120
ccttgcgggc caagctgccg ttgatcttga gacggtcaac gagagtggcg acggtgatga 180
gacggtagga ctggacgtcc ttgttgagtc tctcagcggc cgccttctcg aggacgacgg 240
cgtgctgggc cttgtccttg actatagcgg aaatatgtta gttcgggtat tcattatcca 300
ttttcatgtg tagatgagtg cgaaagtcgg tccaattttc tggttcgtag gatgttgcca 360
aatcgaggat tgttcgggtgt tgggtgatgg agatcattat gaggacggag aagcatccct 420

tgcccttga ccacttcac ttttgcttgc ctgcaggagc ctatttcac tattagcatc 480
 atattgggca gatatacgt ctgttctgag gagggctgca gcttaccatt ttgactgtct 540
 gtgtggttgt tgagagctgc gagactgaag cgtccagaag ttgagcctaa gtgcaaaatt 600
 cgagtgggga gagaaagatc acgtgagaat aaaccctagc cctgggatgg tcacgggtcc 660
 aggctcgggtt actgaattct agctactaat gtgattggct gcgagaacta tgaagttaat 720
 gcctggaacg taaggcagtg acataattat ccctttaaaa cggcaacata aagatggtta 780
 tgcaacggtc gcttatagaa tattagacat gtggcgagc tagataatct catcggttcg 840
 tgtaagtgcc atggctgcct gataatacct ttccaccaag agtggtttaga gccttaaatt 900
 ctgcaccatg ctcatccagc tcaataaatc ccaaacgta gtcctcttgg gagccaaacc 960
 agaactaga cttctgacct atgtcagagg ataaccatcg cagtcgtat ctccactgt 1020
 cgcttcttga aatagggact cgaaagatgc atgggtgctg gtgcgggctc caaaatcgta 1080
 caccgggaag agcattgttg gctgtagtaa tgagcatttg cgtgctggaa tgatgccata 1140
 taacctgtct aacagcatgc tcgtgaacca aaaccgaaac aagaactgga gtgctctcca 1200
 agtcccatc ccagacaatg ttaggccgag tctgggtccac agtgctcaga agtttaccat 1260
 caaagctgaa tcccatcaag gaaacccac gggagacact cgtcgggttcg gggacggttg 1320
 agaatgcaga tgagcttgac gactcagcgt attctaagct catgcctcca gcggcgtagc 1380
 gttcccgcca taggctagga ggggattggt cgatggggaa gatatgtgag agtgtagacg 1440
 agcaagagaa cttcggatgt tagtaatgag acataaagca acacagtaat tataataccg 1500
 ttttcgttcc aagtaggtcc accgtgccat ctatcttacc aacagccaat acttgcgata 1560
 agccatctcg cacaacagga ctccattcaa ggcctctaac tcctagatca aataatccat 1620
 cagattccgg taagcctgta taggtcctaa agagctgcac atcggcagta aagacgagaa 1680
 ctttggttcc tgcacttgca gcctccata cagctatcca gtgcccata gggctccatt 1740
 tcagcccttg cgcgtcgacc gtcggaagca cttcgcgtcc gatgacctca taggtcagag 1800
 gctcatgcac ggtcagcagg tcactagtct ctggtttcaa taagatcgcg agctgcccg 1860
 tcttcggccg atatccgtaa ccattctgat gcgagaactt gggggacttt ataataagac 1920
 tgcgccaga gtccaactca aagacagtga gcttgggtgt gaatgcgtgg aaagcaacaa 1980
 tctc 1984

<210> 2271
 <211> 3651
 <212> DNA
 <213> Aspergillus nidulans

<400> 2271

```

agacacttca cttgggtggg ggttatagac tagaaagagc ttttactata ggtaatcata   60
ctaattgctaa ttagagggtgg cgacacctgt cactcgccac aatctaccaa tggccagatc  120
ccttctgaac cctggatgta ccgacatggc aactccgcaa aaaagaagct aatgatgctc  180
aatcgacgca tcgacgatat catcgtagac cgcgggccag ccagagctat ggatcacgac  240
ttatgacttc atctcctttc gtcaagcaat caaagcagtt tctcaacgct gggatcaagc  300
gaacagctga cacttccgta tggaggaatc tcgcactcat agctcggagt gctgcgtggt  360
cgcgctcatca ttcattcatgg acgccacctg ctggctctta tatcgggaac tgtcaccaga  420
agctttgcaa aacaatcaaa taacattatc tatcaagaac catcattact gtaactcaac  480
ccaaattgca cgtctcccct aaacatggaa gtacacctgc atgctaatat catcagcacg  540
atgtcgtcaa aaaccaactt catgagcgcc ggaaaccaga cccaacagtc cggaaaccgt  600
tcgcaaacgg gcgctagctc gaagtcacaa aaagatccga cctctggctg gagtgcgag  660
gaaatgcttg agactggact cgatcagaac ggcaacattg tctcggaaga ttattcctgg  720
attgacggcc gtcgactaaa taagggccaa cacggcggcc aagaggccga tgatgttgcc  780
gcttcgcttg atgagcattt cgcttaaagc gacataggtc gaattgtgag gtgattacaa  840
actgcgcctc ggtttatgac aggttgggtgc ttttcgttcc ttcattctta ggattggagt  900
ccatgtcgct atcgctaccg cactaaccga tggaacgagt ttgactatgt cggcgctcat  960
ttgatatgta acttaaggaa tctttgatca attgaatac ataataatg cggctacgag 1020
tacgctgcaa ggtaaatgct caagcccttg taatgtagaa cttggttgtc cttgataagt 1080
agtagtcggt ggtagtcgtc attgctatgg caaccgaccg cactgogcgg gaccaggata 1140
ggcctgaatc ttgcctgggg ctccacgcca tgctcgattc ggcaaaaccc aaacgaagct 1200
ggtttggagc cagcogtttg tgacgtaca agtcggtggt attgttcctc tcgatattat 1260
cctcctgtcc cggcagactg agacaaagat gagaagcttc gcggtgttat cctgaggaca 1320
attgattcat ccgctgtcaa ttgttatctt gcggtacctt gccgtatctc atcgcggtgc 1380

```

ccttccttgc ttcggtgca tgtttcgctc ttttacttca catcgagggc tgtctgcatt 1440
 ctccatccgt ctttatcatt ccacagtcaa tacagtgtcg agcactgaac aataagcttg 1500
 cattttaaga cgacctgacc ctaagtccac gtctatactt caccgcaacg agcggcagcg 1560
 acagcgaccc ttgcaacttg ctccacatct tttcgtgttt ccgcccttag tggtagaccg 1620
 accttctgta tgtaccatca ctttatccgt cgccaacgag aaatcgctcg tcaacttgaa 1680
 cagacattgt cagatcacgg tgaagagatg gcgctggacc ctgcttcta tcaccatctc 1740
 ggccccggca tcggatctgg ttcgagctct tcggcttcgc tgtcgggggt atcttcggcg 1800
 acgggaatca cgagcccatc tatacaatcg tctgctgctt cttctgccgg cttgcgggtca 1860
 actgcttcta gtccatccct acggtcacga caaggcgttg ttgccagacc ttctgatggc 1920
 gtcccggggc tcggtcctgg aggaaatgtt cgtgtcgttg taagagtgcg gaagtttctg 1980
 ccgagaggta cgtgcagcca gtttgatgga catgaaagct aatatgattt atggttcaga 2040
 gctcgagcgc aaggcaccat gtttgatttc aatggatccg gatacacaga cgacgaggct 2100
 aaaggcaccg agctccact atgacgaagg gaaaccgaaa tcgcaggcgc gcgggaaagt 2160
 gctggacgat aaggaattcg tattcgataa ttcattctgg tcacacaacg aggcagacga 2220
 acattatgcc caccaggagg atatctataa ctgtctagga gaggagtctc tagaccacaa 2280
 ttttgaaggc taccacacgt gtatcttcgc atacgggtcaa acaggttctg gtaagagtta 2340
 tactatgatg ggaactcctg agcagcccg cttgatcccg cggacatgcg aggatttatt 2400
 ccaacgaatt gaacacgccg agtctccgga tgtcagctat aacgttcgcg tctcctattt 2460
 tgaagtctac aacgagcatg tacgcgactt gctgggtcct cgaactgacc cgcctcatta 2520
 tcttcgaatt cgagaatcac ctactgaggg gccgtatgtg aaagatctta ccgaagtcac 2580
 agtccggaac tatgcagaga tcatgaagta catgcgcaa ggcgatatat caccgaccgt 2640
 tgctagcact aagatgaatg atacgtcctc gcggtcacat gccgttttca cgatcacact 2700
 gaagcagatc caccatgatc tctctacaga cgagacaaca gaacgcacag cgcgcattcg 2760
 ccttgctgat ctgctgggt ctgaaagagc caaatccacc gaagctacgg gtcagcgact 2820
 gcgcgaggga tctaatatca acaaatctct taccactttg ggtagagtta ttgcggcttt 2880
 ggccgacccc aaagcaggac ggacgggtaa acggaaggga aaggaagttg ttccttaccg 2940
 tgactcaatc ctccatgggt tattgaaaga cagtcttggg ggtaactcaa aaacggctat 3000

gattgcctgt atctcgccca cagattatga agaaacactc tccacgctac gctacgctga 3060
 ccaggcgaag catatccgca cgcgcgcgag agttaatcaa gatcatctgt ccgctgctga 3120
 gcgtgaccga cagatcgaag aaatggcgga gactatccgc acgctccagc tcagcgtcag 3180
 ccaagctgcy cagaatcgcc gagagaccga ggtccagaat gaacggcttg aagagtatca 3240
 gcagcagggtg gagaagcttc agcggctcat ggaggagaac aagatgggta gtgaatgcaa 3300
 aatcaggcag ctgcagaccg agaacgaagc cgatcgcaac cacctaaagc tggctttgga 3360
 tagcttaaag aatcctattc ctccagtgcg aatcgagaag gctctcagcg acgttgatat 3420
 tccagacgag gagcagccga tcgacgagca gcagccgggc tctcctactt cggaggcaga 3480
 aacagagccg gatctaattt gggaagacga gaacctccca cccgacacaa gcgagttaga 3540
 agcccaagaa atgcaggcaa caatggagaa tcttttgggc gatctcgatg tcttcaagat 3600
 aaagctggct acagaccagc aatgctttgg tgcaagtcga aaacacgagg g 3651

<210> 2272
 <211> 1533
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2272

tttgtgcgtg tgcatacaacc ccccttttcta agagcattct gacaatatcc gagttcccgg 60
 ccattgttgc cagggtggaga ggctgggctt cgtaggcatc cttccgggtac aagccagtcg 120
 gtttcacatt atcgttgttc cattgcgaag tctctgcgtg cacgtcgtg cgggcttcta 180
 tcagtatttt ggcggtatca gtgcggccaa agtagcacgc tgcgtggaga ggggtccagc 240
 catataaatc tgccagggtct acgctagcgc cctgggtcaa gagaagctca actagaccgg 300
 aatgccccct ttctgtgca tagtacagta gtggtttccc gtcacgccac aatcatgaca 360
 tccgtgtgtt cgggtccatt ccatatgcca gtaaagtgtg ggtcatatgc aagtttccta 420
 ggatgggtgg ccattcgaac atgctctggc gttgcccgta ctacatgga atttcgactg 480
 gttgggttag gatattgagc caaaaagcta ttgtctcagc atttccggaa atcgagtc 540
 tcaaaggcaa cagtgccctgc agtgcgtcgg tcttgagatt tgctcctgcg tactggacag 600
 catatcgacc gtctgcatct acgatatcag gacgtgcgcc gtgggccaat aaactggtaa 660
 tgagcggcac attccctctt tccgcggcca gatgcaatat cgtgcgcccc ttgtcattaa 720

ctctgtccaa ggctcctact ttctcaaggc atacgcatac acgctgatg gggtcagaaa 780
 tctctcccag ttgtccgaga attccggtec aatgaccctc tctaggacgg gctgcagcaa 840
 catgaagaat gtaatccaaa cacttagtat caccatgtac agcagcagtg ataattggat 900
 caaagctagt gcctgagggc gagaacacat ctgcgcccac gtctactagg tctttcaaaa 960
 catcaactgg gcctgctgct ctggctgcca cagtaagcgc ggtatcgccg ttctcagacc 1020
 ggaaattaac atctgctccg gccagtatga tctgcccag tatatgtcta aactgagata 1080
 ggtcttcggt caccctctta ctctctgaca gccgatgccg aagggcacct agaagagaat 1140
 ggaccgcaga cggactgacc tgagcaccat tatcaagcag aagatcaaca gcgttggcca 1200
 caaagtctgc aatagcagct gatgctatag gcccaagatc tagaccatca gggatgagag 1260
 caccgagatg gtagagcgtg atggcgactt cccacctatt cgcacctagt gctatatcca 1320
 acggcgtaag gcattcgagg ctatctttct cgtctgatga gctattcttt tgatctttca 1380
 tggcactcat cccacgatgt ataggcatgt tcagcatgct gacagaatca gcaccctgtc 1440
 cgcctcggat aagaacacga gcagtttcca ataaactatt gttttcttgg gcttgatgag 1500
 ttccgcgata taaactatgc atatggctcc caa 1533

<210> 2273
 <211> 1579
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2273
 aaaaatatgt ttcagaactt tggagatctt gggcaaaata tcaaagaata cgtggagcag 60
 tatcaggtga agactaagaa cactatgaac atcgagtcta ttgccgatat gaagcgtttc 120
 gttgaagact atcccgaatt ccgaaaactt tcaggcaatg tgagcaaaca cgtcacactg 180
 gtcggggaac tcagtcggcg agtgggtgag gaaaaccttc tcgatgtgag tgagttggaa 240
 caaagtctgg cttgcaatga caaccacaat agcgacctaa aggtatggta ctcttacatt 300
 tgatctgtcc tcaaactcta acgctttata gactctgcaa aggatcattc aattacctac 360
 agtgccccct gagaataaat tgcgactagt ggctttatat gctatcagat atgagaaaca 420
 accgtccaat gcccttcggg tcttcttga tcttcttggt acggccgggg gtgttccttc 480
 tcaccgagtc aacattatac caaaattact ggctaccac cactctctcc aagctccgcc 540

aattgccggc ggattctctg acctctttga gtccacatcg ttgttttctg gtgctcgcga 600
cagattcaaa ggcttaaaag gcgtcgagaa tgtctatacc cagcattcgc cgcgcttgga 660
agcgaccctc caaaatctga tcaaaggcaa actcaaagag cttcaatacc ccttcctcga 720
aggtggcggg catgttcggg acaagccaca ggatattatc attttcatgg ttggcggaac 780
aacatacgag gaggcaaaga tgataactca ggtcaacgcc agctcacctg gtatacgggt 840
agtttttagcc agcacgtctg tccacaacag taagagtttc cttgaagagg tcgatgatgc 900
tgtgagcggg tggcctgaga gtgaaccctc caccgccgct ggacggcttc ggaggaatat 960
tgggcgatag atttccaatt atgtttatca ttctctacat attttttttt ttctttttct 1020
ttttcgggtg gctggcgctc atatgactgc attttgagta agggagatgt atatccaaaa 1080
gggtcgagat tccggcagcg atagtttcat tcacaaataa gatatatata cagactgcca 1140
cgttgtattc atttgagctc gaattttcat tgcaagtaac gcaaaagtag aggacttgat 1200
gtgaagacgc cgccccagaa cccaatgcg gagaagcggg gatcacaact gaatcctcag 1260
cagcgtcatc aacgaatctg ccctctgtct tccaacaagt tctccatgga atttcacaat 1320
tccccgccga gggcggttac agctttgtcg ccctctacag ctgttagcag tcgagaaccg 1380
aagctccagc ttcttcgac aactgacct ccaggccgcg aaaaccgcg caaaccgctt 1440
gtctggctgg taggtcactc cattatcgca agagtttaca tgcttaatcc gtctattacc 1500
gcgaattaga tctttggtgc aactggccat atgggccgct ccctcgtgaa aaccgccctt 1560
tcgcgcgacg acctggtct 1579

<210> 2274
<211> 1643
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 2274

acctgaccaa acagcgtttg aacaagagac aaaagacaat gtcgtcgcact gggatgggccc 60
aggcgatccc cataatccac ggaactggcc agcatggaga cgcattgagcc aagtcgtgct 120
cgccagcggg ttcttgctca ctgcgtaagg cggttactgt actcctttgg tgaagccatt 180
cccgtgctga ctgatagccc tacagcaacc tcgccgcgac aatgtttgcc cctggagccg 240
cctcgccttg gaaggagttc catatcacga gttccaccat tgtcagtcct accgtgtcca 300

ttacaccttg cggttcgcc gttgggcca tgttcattgc ccgctctct gaactgtatg 360
 gacgtcttgt gatctaccac gcctgcaatg tcatttacat tggcttcctc atcggtatgtg 420
 cgctggccaa aaacacaggc atgttcctcg tttttcgatt tctggccgga tgtgcatctt 480
 cgggcccatt gacagttagt ggaggaaccg ttgccgacgt cgtcccgccc gtcagcgtg 540
 gaagggccat gtctctattc tctacaggac cacttctggg accagtaggt gacatcgccc 600
 gcatgatccg tcataatgct gacgatcatt caggtcttgg gcccaattat cgggggtttc 660
 gtgtccgagt taatcggtcg gcgatggaca ttttgatca ttacagttct agtgagtga 720
 gtacgacctc tgctattctc gagtcgctga cagttcgacc taggcaggag tattgttcat 780
 catatcgatc ttcttcctcc gcgagacaaa tgccgccgtg ctgctagaat ggaaggctgc 840
 tcgtctccgg aaagaaactg gtaatacggc tctggtttcg aagatggatc gaggcctgac 900
 ccccgccag ctattcgctc gcgcgattac tcgaccaaca agtttctcc tctgtcccc 960
 tatcgtgctc ctctatcac ttctgtgcgc gttcgttttc ggctccttt ttatgctgtt 1020
 cactacgttt ccacggtct ttgaggaaca atacaatttc tccgccgga tttctggcct 1080
 gtcatatctc ggcgttgga ttggaatggc cgtctctctc ggagtctttg ccgctgtgag 1140
 cgacaagctg caaaaggcac ttggagattc gcccaaacct gaaggcgcc taaagcccat 1200
 ggcgtgggtc atgccgccg tacgggtcgg catcttctgg tatggctggg ctgccgagaa 1260
 gcagactcac tggatcgtgc ccatcatcgg gacatccttc tttgggttcg gccttctctg 1320
 gatcataatg ccgacacagc tctacatggt ggatgctttt gggcctnnga gtgccgcctc 1380
 tgctttgggt gcaaactca ttctcagact tctttttgca gcttttgttc cattggcagg 1440
 gccacctttg tatgcggatc taggaattgg gtggggaaat agcgttctag gttttatagg 1500
 cgtggctttt cttccagtgc cactcttttt ctatcattac ggaggatggc ttagggagcg 1560
 tttccctgtg aagctatagc attacattga ggtagatatt atagatctat ttaccattt 1620
 cagcgtaca cgaggatatt gtc 1643

<210> 2275
 <211> 1319
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2275

ttgtgccttt actccagaag attgtgaaga ctgaacgtcc actcaaggag tttgcgttgc 60
 ctattctctg cgatatggca cactctggga aagttggccg tcgggagttg tggcggaaca 120
 agggactcgc attctatata tcattacttt ctgaccctta ctggcaggtg accgctttgg 180
 atgcaatatt catatggtat gtcacattct ctctggctgg tatgtgcta gctaataacc 240
 attgacaggc ttcaggaaga gaccgctaag gtggaagagc atctatttga aaatcgttac 300
 gatcagccat cattcacaga cgcgatcgtg agatgcttga cattgtccaa ggcgaatgcg 360
 ttcgagaaca tccttgagcc gctgcaaaag cttctgaggg tcagtcctcc aatagcctcg 420
 accctggcgc gccagactt gttcagccgg ctcgacaga aactccatca ttccaaggct 480
 gcggtccgtc tgaatctcct gcgcataatt tctagcattt gcgactctag tgagcaacag 540
 ggcggactac ttgcaagcta cgggctcctg gactcaattc gcgagttaga gcatgatcct 600
 gcgattcttg ttcgggatat ggctggaaaa ttaatccagt ccagcgagag aaatgattcg 660
 tacggactct gtaaactcaa gcccaatgtt aggcggggaa gtacatctgc cacttcccct 720
 ggtctccttg ccaaccaatc agcgcctgtc actcctcagt tgagtcgaca aaaccagtcg 780
 aaaggatact acgatagtcg ggaaacgcaa cggcggccgc gaagtgaat cagtggctct 840
 gcactggctc tccgtcctgg aagcagagac gggccaactc cgggtattgt aggggggtgct 900
 aacggaagtg ctggtgcctc aagaaatagg atagctcgcg gagtgtccaa tagattgtcg 960
 cacatcgagc tggtaccgaa tgatgatgat cgaatcccga gttctataac tcgtcgatcg 1020
 tcggtcctcc cagtcgtcg acgattgacg cagtttgagg cggagcgagg atcgtaatcg 1080
 gttggctcgt aatggggcat ctatttatca ctatatttcc tttgcgaatg ggttctgtga 1140
 gtacttctct tcgatgtctg atcactatga gcccatgcat catcgatatag gcgtattttg 1200
 cggcgtttgc catcagttat ctctcttttg cccttggggt tacaatacat catatgtttt 1260
 gctggctggg agggtatgga atttggtgca tcggcgacct agacaatagc gcatgtaga 1319

<210> 2276
 <211> 2502
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2276

catcttcttc tccaagttgc cagtcattgc atgtaagagc gtttggatgt tatgcagcgt 60

gcttgtctat tgaccatctt gatctctact tcttggttta ctttttccat tcgccgactt 120
ctgggggaac agcccattgt gccctatcga ttcaacatgt ccttgctttc agctgcctca 180
ccggaaactg gccgtagaga ccacgatgag agaacgtctt ccaatagcgg aatgttgaa 240
attcacacgc tatctggttg acgtgagata tcagtaagtt aacatacact tgccatcgca 300
gtataaaccg gactgggttaa tgaattctta gggtcacaag cactcaaacc cctgtatcag 360
ctctcccgac ctttggcta cttcgaagct tgggaacctg cagtcccccg tcggccagaa 420
aatgacaat gttccaata aggtcaggtt accgttgctc ttgattttcc ttggcagata 480
gtgtctgaca atcctagaag cagaagttgg aacatacaag caataccctt cctctgacgg 540
gaaattctga aatggaaagg ctctggcgga agctttcgcc aaagccccag ttgtcagact 600
ccaagcaaac gatcaaccag gatatcctct caaagttgtc tgagcagcag ctactcctcg 660
accagcaaaa gagtattttg gcgaaaaata aagttgttgg ccagggcat ctcgaagagc 720
gcgataaacc tctcaccatg ccacagcgta tggacgtaa acaggctgct agcccaaag 780
aagttgcgcg tttcgaggct ttcgacaccg agggttccga gttgcttcgt ctaaagcggg 840
aactccaggc tgctaactcc aaaatcgccc tacaggagca ggaactagca caaaccctg 900
ttatcaaaca tactttggac caggcccttg gtctccatc cgaagctgac tttagcggac 960
gggatataag cgaacaaaca atcagcaatc tgcagagcgc cttcaacgca tccataccgg 1020
cgccgcatct acttcaagac ggttgggaata cgcaggaaga ttgcgagtc gatatatccg 1080
atgcactctc cgccggtgct tacaatagat ccaggggatt ttggggccct cctgctcagc 1140
aagtttatgg tgtgggattg aactcagata aagcctacgc tgatagcaat atgcctctcc 1200
ctggcactgc tttcggtcac gattcgagca gattttgggg tccttcaaac acaaaccct 1260
cgattccagc gaacagttct ttccaacccc atcgctgct ttcaggccca tccacagctc 1320
cttgagctt tgatggacct ttctccgacg accaaggtag gtatttgcaa agttcaggtt 1380
ttggcccgcg cctccaaca gccagccaa gtcgtattgg gtcagcttt cctgggacag 1440
gctctccctg gggtagattt gtcctagct cggccgacag tcagggttct cgatcaccgc 1500
cgagtaaacc gaacagtact tatcaacaag taggacttta ccctttgcc ccctaccatc 1560
agcgggcagt tgcacctcg ctctcaccga cagcgaccga gttttcagca cctagtggaa 1620
cctctgtacc ctgggcaacc tcctctgtgt gtaacaccga ttctgatctt cgtgctcgat 1680

tgacagttta caggtcggcg aaagctccat tcaaacgtac atttcacctc tcgaaaccac 1740
 ttaattatcg gogactgtta gataagaatg tttcttgtga ttggaaatac atagtcgaca 1800
 agattgtttg caacaatgac caacaagcct ctatattctt gcagcaaaag ctcaaagtcg 1860
 gcacaacaga gcaaaaattc gacatcatcg aagccatcat ccaacaggct tactcgctca 1920
 tggatgaatcg attcggaac ttccttgtcc agcgttgttt cgaacacgga acttctgagc 1980
 agatcgtcgc aattgcgaat gctattaagg gtaacacttt gagcctcagc atggatcctt 2040
 tcggctgcca tgtagtccag aaggcctttg actgctgccc tgaggaacac aaagcagtca 2100
 tggatgatga acttctgccc aggatccctg aaacagtcac tcaccggtat gcgtgccatg 2160
 tatggcagaa gcttttcgaa ttacgctgga gtggtgagcc tccgcaaatt atggcaaagg 2220
 tcaacgaagc tttgcgcggg atgtggcatg aggttgcatc gggagagact gggagccttag 2280
 tggttcagaa tatctttgag aattgcgtcg aagacgaaaa ggtatgactt cgctgcattt 2340
 ttgcctctcc tttacgaagg ctttctaacc acaccatcta gcgccttgcc attgaagaag 2400
 tcctagcgaa gatcgatgtg cttgctcatg gtcagtttgg aaactggtgc attcaacaca 2460
 tctgcgagca tgggtgcccc cgcgataaga gtcgtgctat tg 2502

<210> 2277
 <211> 1875
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2277

cttttgcagt gcattccacg gaccactgga gagagcgagt tgaatcttct caatttctgc 60
 ttttttgcgt tggcctgtcg gttgcggaac cagccgtgac tagcgcatct gattttacct 120
 caatcgctg taacaaccgg cacttgctgc atcggaagtc gtcgatatat tcggtcttga 180
 gaaggccgtc aaagcaagca ttgagtgtgg tagagctcct ctgcgggact tgcagtgtca 240
 aattgacaaa tgaagtttgg ttcggcttgt acttgtagtg gcagaattgg cattcaatct 300
 gggactccaa cttgccttca aaaggaaagc catactcggt gtgatctctc ttgagcttgg 360
 tgtctattat ggccggaaga ccattctctg tgccgtcatc cagtcgcact tcaatctcag 420
 acggcgctt ctgcgctct tggtagggat tgaattcgat tgatttctcc gccctttgac 480
 gtgctttcac accagcatgg tactcgtcgg acagtcttcc agccacaatc tgcaggaact 540

cctgcgcgtc ctgctgggtg cgactaatgc gaggcgata tgcaaactcc aaggcctgga 600
tgaatgcccg cgccgagatc gtcttcttat aaattggccg ctcgtttaac cgatccagca 660
tctccttcag cgccctggta atggtaccct gctgaagctc ccggatcctg tccggtctct 720
tctcacgcaa ttggtcagcc tcctctggcc cgggcagctg gttgtagatt tcaggcccg 780
ccagctcccg ccgatggagc tcgcggatca aatataaccg tagatcgccc agaccggcaa 840
gtgcctggag cacggagttg atgaaacagt cattcgccggg attcgagagg cccacgatgc 900
tctttttgcg gttccctcct gcctcatctc catcgatggg gtaattcggc ccaaagacat 960
agaacagagc aacggccgct agggatgctc cagccgcata cgccggcgacc gtagttggtt 1020
tttctgcat caaactgcgg atttcacgaa ccaagactgt ttggctgtag ttctatggcc 1080
tttccatagg tcgcctaatt atacaaagcc tgcgagcgat gtttgtgctc gcccgtcggc 1140
tctgagagac aaagcaatca cagtcgcttc caaaggacga tgacgcttcg actcctcgac 1200
ttgaatccag cacactctcc aagatgtcgt cctcagctcg ggtgagcccg gaagtgggtg 1260
aatgtcagcc gtcgacaatt aaatttgcca tgaaacccca accaggtttc ccgggaaggc 1320
tgtgcgccgt gcgggctgcg gagagaaaaa agactggggg aggctgagaa ggctgacagg 1380
gttccgccta cgtccggagg gagtcgtgag aaatgtaggc agcacaataa tcgggctgcg 1440
ccccgaggac ttatcagtcg gtttcctccg tgaaatttgc aaatttgcaa taataaaggg 1500
agaaagaaag tagaaggaag gctgcagagt gcaggagttc ggatgttctt cagaatcagt 1560
gccgaccgta gtcgctgtac ctacgcaccg gccctccgtc ggcgtcccca catccttctg 1620
tttcaaggcc agctcgcttc aaacagtgag cagtacagat taaaaaccag ggctgggtga 1680
ctggttaaggc taaatgcgtt gggactccat gttattgctt aggaccagtg tcgagatccg 1740
cagaaccaat gaatgtgggt gaattggtga ccgtgaagtg ggcgcaacat aggatttgcg 1800
ttgatagacc tgcagatccc ttgctagacg gtcagtgcgc cagcggccag atgtgactgg 1860
gtcatggctc cgagt 1875

<210> 2278
<211> 1295
<212> DNA
<213> Aspergillus nidulans
<400> 2278

gcatcgacgc gatcgcaatg aagcgctgga gggcgaacgg ccgggtgagg cggttttcaa 60
 ggccattttc ggcagtgatg acgaagacga ggatcaagac gactgattat atagattata 120
 atcatattgt tactttctaca ttataaattg tactaccaca gtactaaaaa atagcgtaag 180
 agagtgcgca atcagaccga accccgcaga gaaaggctgc tcctagtctg agtctagagt 240
 ttcggggcct ctcaagcta agcttacgat tgcaccgcag gtggtcagac ggttgaccga 300
 gattgcgggc cacggaactt tctctcttag caacctcgaa cctactagta gcaggatatat 360
 ttagctgata ccgagtccac ttttgcggg gttctacttc taaaagacct tctgtcatcg 420
 cttaccgata ctcaatataa catatagttt tatgcatctt acctatgtct cgcgattgca 480
 gctgatggag tcgaagtctt ctctccgcca aaatgggtacc tcacctctcc cgctcattt 540
 ctgcagtcta gtactgacag ccgaccgcaa caccgcaggg ctgctgcttc tccgtgtcgc 600
 gtgaacccca cgactccaac ggccaaacac ccacagagga gcatagctcc gcaatagcac 660
 cgccgtccca cattccatct tcatcccgcc agagccgcca gcgtcatctt acgcacaacc 720
 cctccccatc ctctctcac catgaccgcc aaagacagca acaacaggcc gtaccctctc 780
 agcagcacat aaacgcaccc atccgaccgc acatatggca ctctaagaag cgcctatgga 840
 ctgcgcgct tcttgaccgc gagcgaacgg agttcttcga gaccgcgctc acggggcggc 900
 cggaagtctg ggacgcactg tctgcggcat tgcagttcat gcggaacgga gactacgaga 960
 ccgcgcagag catcattgat gcggcgaggag tgacagttcc gactggggac ctttgtcagg 1020
 gagtttatga tgagcagggg gttctctatc ggttgccgag gtgtattggt agtgatcctg 1080
 tgaatattgt agttggggat gtggggttgg gtgggagtgg gagtgggaagt ggaagtgatt 1140
 ctgaaggaag tgacggcggg gcagatgatg atttgggggt tgagacagat gagaatgagc 1200
 atggggatag gaaggtggga tatgttcgag agggcgaggg tgttgagtcg ggagatgagt 1260
 tgatcaagaa cggcgctggg gcgagggcga gggtt 1295

<210> 2279
 <211> 1884
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2279

agatgatatt gcaaattctca gagaaccccg cagccagatc tgtctctgca gatattctat 60

cccaatttct gttgcgctga atcagtgcgg gcggacaaac acggcatcat tcgtttgtct 120
 caatccgctt gcaatcagct tgccaaacca gatccaggac taggatatca tacgctgcta 180
 tgaagttgaa tgcttccgaa ctcagtatct tcaggggagc agtctggtga tcgggacact 240
 tcgtgatgtt gtcacgttcc atgcgcaacg gtgcacacac tgctcctgct ggtgactttg 300
 gagctagcga gaccgtacgc atattctctg caccaacgac aggtgtcaga ggacctgatg 360
 ttctctcgta gatgggttgt tctataccag tacccttggg cgacgtcgct ctctggtctg 420
 cgtcttatct ttcagcaatc gagagcggat tggtaatcgc tgcaatgtct tggagggcgt 480
 ttccatgtct ggaccttttc tttctctgga aatgctccaa ggccggtttg cattgatgac 540
 gctcggaatg ctttttgctt gtctggggag gtatacttca agcgtctgtc ccatgctctg 600
 tcgtcttcta gtagcggctc cgaggccagt aagatcagga taaatagcgt ttcgaggtaa 660
 ataagtagaa aaccaagcac gcactttggg accgtattct ctggtcgagg acaccgagtg 720
 aggcgcaagt tcatcgctgg ggctgaagct ggtcttgcca gaagaccat ctcgacgacg 780
 tcatctttgc catatctggg ccagagggtc aggttatggg ctaggtcaag gctttgctct 840
 cctgtaatt tggacagatc aacgagaagg tgtgaggagg cgcgtcgtag ggagtatcta 900
 tccgggggtt gcaggctgga gaccgaactg acagataaat agcctgcggt gacatgctgg 960
 ctgggtctga tcaatgctgg ggtaatgccg gagctgaatg gcgggaaaga tgaagtgatg 1020
 gacgtctatt gaatgggcat gggttggagg gaaagaaagg agagaagata cggcctatac 1080
 ttctccctt ctgcccctga cataacttta taacgcgaat caagaacagc cactgcgtag 1140
 acccttagac tggatttggg agtaattggg aagagacctc gctcttcctg gctcacagtc 1200
 tcactagggt gagcccacaa tgcagcagca aaacaagcct aatgtgcccg attcctctca 1260
 atcatgatca tcatcaccac aattatgaac cgtacaataa acccatcacg atggctgcga 1320
 cgagcattgc cgcacaaatg cagaaaacgc ccaccataca gtttgccaca aacaggccgc 1380
 atgaaccagg gtcttcatct cggtcgagga agggacgggt tttggttcca cggcccttgg 1440
 agtcctgac aagaggcata gttgactctt tactaaatat cgaggggggtt tcatgggata 1500
 tccctgtttc tttgggtgt gaatctgatt actgaatgag ggaaaaggcc tgggcacgta 1560
 cctagatctt cgtccgagtc ccagtggcag taggaatagg gggctatcca aggagaggta 1620
 gatatgggca tactgaggta cctgagtatg tctgagagtc ccaggggata aatccttgca 1680

aagcaagaga agataatcaa gcggaggcca gtaggagttc tgggaaggaag ctttgttatc 1740
 agaagaaacg gaagtgcatt ccgatacccg acgatgttga tggccctca gccggtggca 1800
 tcataggtag gtcttctagc cgttcgaatt gaaaaagaaa catagcgttg aaagccaaag 1860
 caagagcttt caatgtagag accc 1884

<210> 2280
 <211> 2110
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2280

aaaactggac gggttcactg ccgccactgg tectgggaat gcgacaacca ccaaagccg 60
 ggcagaatac cacagccatg tcaacggtaa acctgatgct cccggcttcg catcggggca 120
 ccttccgaca cccttgacgt caagccacgg accggccaca ccgacgccac atggccagac 180
 acaccagtac cgacaagtct gcggagtcac atccaccatc tcacagagga catcatctgg 240
 gtcttcgggc tctatcacc accttccagt ccacgagcag cagaatggca atggaggatt 300
 cccgggtacg ttgcatgccg attgggtcca gccgcaaccg aggcacgact tctccatcaa 360
 ctccaatgat agcatcaaca ctggaaatgc gattctagat ataccagagc ccaatatggg 420
 tgatcagtcc agtggcttta ccgagtcgtt tccatttgag gggttcaatg tcgaggagtt 480
 atggaattgg atgttatatt ttgacagccc gccgaggacg gatatgctat agtccggaag 540
 aggtgcagca taacagccgg catatatcta ttgttatttt aagaatctta ttcaccggga 600
 cgggtattta ttacttagt tccggcggag acttacgata tgtaactgca ggttattgtc 660
 aggagatttc cgggcggggg atcgacctac tcaactctga ttctcaaaat ctgcataact 720
 agtgtagaag ataatcatca tgcaactaca gaaagcaggg attagcatat gccaaaggcca 780
 ctgacgtttg tttctccgtc acggcatccc cagaagccga gtaggacggg atctatgccc 840
 catataaagc gcaacagtgg gcaaattcat cagttcaaca gaatcagcac ctctcgatga 900
 agttactcac gatgcgcttt caatctagcc ttctagcact agcctccctc cttccccagg 960
 gactcgccgc caccctccct atcccgccc agaatcaacc gggtaatac gccgggtatc 1020
 tgctctcaac attcacagac gcgaacccat cgggtcttctg gtacttatca tctgctgaag 1080
 atccacttgc atttaaaccg cttaatgggtg ggaatccggt tctgcaagct accgttggaa 1140

cccgcgctgt gagagatatc ttcctcacgg cgagcgaaga acggaacgag tatttcatca 1200
 ttgcaaccgg taagactggg cgcgtttacc agaaggatat tatcaagatc ttttatgact 1260
 aactatgata ctcttgagca gatctcgata taaatgctga tggcttctca tgggacgagg 1320
 caacaagacg cggaagcagg ggcctgacaa tctggcgctc cgacaatctc gttgactggg 1380
 acgatgctac attagagatg tacgtttctc ataacatatt gctactgagt tatatccaat 1440
 ctaatgccta gctgcagaat cgaatcacc gaagctggaa tggcctgggc accgtccgta 1500
 gtctacaacg ccactgaaag cgaatactac ctcttctggg cttcacgcct ttatgcagag 1560
 gacgacgcag accacaccga caccgcatct cttgaccgaa ttcggtacgc gacaacgcca 1620
 gatttcagca cgggatcggt cagcgagcct gccgattacg tcgccctaga tgcggagaat 1680
 atcccactca tagaccagga attcctctat ctcggtaacg aagggcacta cgcacgggtc 1740
 ttaaaagacg agaatgtgct gcatgtgtac caggaaacaa cgacaggagg cctgtttggg 1800
 gaatggacga ggacgcagcc ggagggcgaa tatatcagga cgagcgtata tgaagggcc 1860
 gcggcatttc ccgatgttaa tgttgaaggc cgctattatc ttctcatgga taactatgag 1920
 gagtatgtgc cttcgtgac ggaaaacgta ctctctgggg aatgggagga gttgagctct 1980
 gatgagacgg ggttgccgag ggggttgaag catggaaatg tgttcttgct tacggagtca 2040
 gagtatcagg cagttgctga gcggtattgg gtgtaagata cctaagtctg atggtgtcta 2100
 ccaaactacc 2110

<210> 2281
 <211> 2176
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2281

gtggaggggg atcgagtcag agagcaatca agaccaatg ataaggaatc aagaccaggc 60
 cgttaggagg aaaaagaata ctcgaccaca aaggtagcaa aaccatacag cgaccgagta 120
 ttaaatcgcg attaaagccg aaaacctcaa ggatcacgct tccctccctg aacacgctag 180
 tccaaaccgg gtaacattag ctagctctaa ggcaccaggc gttcatgcct gaagataatg 240
 tgaagaatat gacgaaccaa actacatgag tacaggcttg agaactttca tatggatcta 300
 aattaaatcg ccttaaagga aaattacata tctacctaga ctattgtact atgtcattgg 360

agttaccaa gctactgtat cgatacacia aagcgaccaa atggcggagc agcggagatg 420
 gacgaaatga acacaaacac gctatttggg ggtgtacaaa aaatgataga caaaaaggaa 480
 tagatgcaga cgtctaattct tcgagttgat gtacaacgcg actttttaccg cgaggtagcg 540
 cggctcagga taaacactcc ggcaatgaca gccgcaaag tgacaattgc tcctgggagc 600
 aataagtcac tgggaacgcc tgcaataagt tgctcttcgg gaggatgggc gggatacgcc 660
 tgagttgctc ggggcttagg gataggcgat tcttctgata attggtcgct tgaagcaggt 720
 gtcttaacct ccacaggctt gacaggggcg ggtccacag ggcaggaat aactggaggt 780
 tgagctgggt cgtgaacgaa gaggtctacc ttgtcacgac gagcgtgacg agcaatgtac 840
 acggcgctcaa cgagatcctg atcagtggtg atagaaacgg tatccccctc attgtccaca 900
 tagctcaaag cgtagcctgt gttgctaagt acgccatccg cacaactggc cgcaccacca 960
 acagcttcaa cctcggggcc aagttttgca gtaacctgag ccacgagttc ggcgatacca 1020
 gcagcgggga ggatatttac tctgtgcacc cggccactgg gtgctttgaa cttgaagggg 1080
 aacggcgaga gttctccgtg gtggaactca gagtgctcgt ctccgccatg gtgagacgcg 1140
 gattcattcg gaagaacgct atcccgctcg tcgaagctag ctttgggcga ctccgggattg 1200
 actattgacc gatgcggttg gtggctctgg cttccagaaa ccatcgaatc ggactcgtgg 1260
 tccattgaca gccagaactt gttccaagct ggcccttcat catcttgggt cgacattgag 1320
 ttgatctaaa aagcagtttc agtggcagcc ctatagagac atgcgcggag tgtccacata 1380
 cctgctctag ggtagcgtat gtaagtttga gcacatctac catgcccaca atctcgcccc 1440
 cctcgttcat tacaggcaga ttcaggtagt gcccgctcgc aaatctagtt aactctaate 1500
 ggatctacaa gcaggtggat actgaccatg catcttgcgg agcgcagctt gaatactcat 1560
 atcgcttgga gcaaaatcgg gatggggggg catgacccta acgacactac aggttgacgg 1620
 atcaaggccc ggggcgatta cacggaggac gatatccttg ctggtaaaaa tacctgtgat 1680
 ggatccttga tcttgcacga gcagagcagt cgtgtgatgt tccttcatca atgcggcagc 1740
 tctttcacag tgggtccggac ggaaactgtg gtgggcggca taccgtctag tacggattcg 1800
 agtgtaggac cagacatctt tgaacgaagg gcctcaacat attggataat ctgttggggg 1860
 tggctagagc caagttctga ctggacaccc tccagcgcat cgtaaagctt gcgggaggag 1920
 ctgtaggcgc gttccagttt ctccatagcg tcgtagaagc acttggtgat atccaggaca 1980

ccagaaatat cctgggttttc gtccatgaca ggtaaagcc ggaatccttt ccgaaccatc 2040
 aaatcgaggg catctgtagc gctagtatcc gtcctcgac atagtgggtt ctctgcatg 2100
 atctcagaga ccgtgatatc togagccttg agaccagctc ctactaccct aaatgcaagg 2160
 tccttggcgg taaaga 2176

<210> 2282
 <211> 3722
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2282

ggaaaaccaa tctcaaacca cagctccaac ttcggaaacc aagtcagaac aagaacaaca 60
 agaacaaagc cagaaaccca agcacgcctt cctcccttaa accaccccaa cagctacctt 120
 ctcccttttc ctcaaagaag acttccgcgg ccacttttgc cgctgcccga cctgctatcc 180
 caaccttgca ccacatccgc aactccgcga agaagaaga acatacgagc cccctctctc 240
 tgaagatggc gacggcgaca gaagtacagg tacaggtagc cttcttgacc gtggggaagc 300
 ggcgctcagc aatattgacc gcgtgctgc catagagggg gcaatggtct ataatacct 360
 gcgcgaaaag gtgaaggagt ttctgaagcc gtttgcggag agcgggacgg ctgttggcgc 420
 tgatgatatc aaagcttatt ttgagaagct gagggtgac gagcagcaa tcaaggatgc 480
 tgccggcgcg ggaaaggcct ctgcagatgg gggagggaat gaagacgata aagacgaaag 540
 tggggatggg gttgggagac gagaacagag tggatatgag cccaagtggg agattgcatg 600
 gggggacctg cgcttctgtg ttctttgttt cgctgatata taacaggtta ctgagtactc 660
 tcatgtgctg aagggatatt tactgattaa tgggctgatg ttatgactta aaatttggga 720
 aggcgttttag gagctcttga acccaaagc gagatacaca ccaaataata atccatcttt 780
 gagaacccgt tgacaccaac aatgacaccg gatcatgagg agttcgagaa cgagagagcc 840
 tgataataga tatctgcaat actagggaga atcttacatg gtcggcctaa gatcatcaga 900
 agtgcacagg caggctcgac tgaaagcggg tgaaggatgat tatagaagcc tatgtactcg 960
 gatggcccga agtgcacaag gctgggcatg tttcgctct gagctcgta ggcatgggt 1020
 cagtctatgc tgtgcttctt atagctgtaa ttattagaga ggtgtagcgc tagcagatag 1080
 gagctcctca ccacagtga tgcagcgaac gcgaatgtct ggctggctga agttggccgc 1140

ggacaaatgt aaaagctgtt cattggccat aatcgtaaga tatcttggag tatcactggc 1200
 tgaatcaatt cgagtcgacc ggaaggctca acgaacaagt accaggtagg cgttacgaga 1260
 ttagggagac caatagcttt tgaccatgtg tgtagaagag tgatgagtgg aaaaagaaaa 1320
 aatgagacca tgtaaagaat gttgtattgg gatccacgat ctatgataga taggcaagtc 1380
 caaagaacag tatacgccag aaaacccggg ttgcaactcc accgaacgcc ggtgacctct 1440
 agatcaatat aaaaaaataa aaataaaata aaatttacgg gctctgttag tgtcactcct 1500
 tcattcgctt tgccgcacgg ctcatcaage tatcgtcagg tagccactc cgtttagttc 1560
 ccggaagact cccactgcyg atatcattgt cgtcgtgggt aatgcgccgg tgggggtatt 1620
 tgccctcgaa tccctcaaag caattggccg agatcggccc gccattcttg aaatatggat 1680
 gttccagggc ttcctttgct gttatccgtg aggttgatc gtaatccagc aatcgggaaa 1740
 ggaggtcgaa gccgtcatcg ccaggggtgc caacgctgga gttgacagag taccgcccgt 1800
 ttttcaagca attctggtac cagcttccaa gattcgaggt tcggctaata tggtttgggg 1860
 cgcgggacat tgccagagat tgaagctgag aatattctgg catgtggacg atgccaggcc 1920
 agttatctct gtgaggtagc cccattatat cgataatctt catcatttgg ttgcgctgaa 1980
 acggaactgt cttcttgctg tccatcttgg cttcttcacc tttgaatatt ggacgaagcg 2040
 agagcaattc cgcaaatatg caaccaacag cccatagatc cacagcaggg gtgtaatgcc 2100
 gactgcccac gagaagttct ggggcacgat accaaatggg aacgacgacc ttatcgccgg 2160
 aaaagagcga attgagaggc ttgtagaaaa gacgcgcgag gcctaggtct cctatgcgaa 2220
 ttgcgccact ggacgttacc agaataattg ctggtttcag gtctcgatgc aaaacccagt 2280
 tcgtgtgcag gtatagtaag ccgttaagaa gctggaaaag aattgatctt accatcgctg 2340
 cggggattgg gtgtctctgg ggctgagtat ggtgatgaat gatctgaagt aaatcatgct 2400
 ctgtgtactc gaagaccata aagatgcact tgtcttctaa gatgatctcg gcgagctgca 2460
 ctacgttggc atggtcaagt tcggaacaaa gcgccatttc tcggatagca gactgcgaga 2520
 ggccagtata ctgaatgata tcaccttctt tatcgggttt gaatctattg aatgtcagtg 2580
 acaatataag actctaaccg ggattctgac ttcttgatgg caaattcccc accctggcca 2640
 tttcggccaa cagctttgta tactcgacca taagtaccac tgctgataaa gccgacgatg 2700
 tggatattgt cccgaacacg gaccttgcgt gtatatccag ttccaggttg tctcctcgag 2760

ttttcttcgc acgggcgaca agtcagcatc acagggtcag caattcgcga acaacacaaa 2820
 cgattatggt caaaaagaat ataagtgaat aacaaaagcc gaactggaac ctaaaagcga 2880
 acgaacaaga aacaacaatg ttggagccct ctcaagctaa gcagctacga gggtttaagg 2940
 gaaagccatt accacgtgaa taaaaccgcg cgacagagtt gaagtacggg aaattccttc 3000
 caagcatgat gaaagagaaa tacaggaagt tgcaatcgaa aaaaccgccg ttaagcggtta 3060
 tgagtccgta gaggatagaa ataacagatc ggtcccttc agtcagtgt catgctgata 3120
 cagcaacca gataagcaac gtggcaatag agggtcgttt aaaaagagtc aaaaggggca 3180
 gaaatatcga ttagagtaga ctaatcggtt ttaccctcaa cagctttcct gcagacctat 3240
 ttttgaagac agactctttc tttctgtgtc tctgcccgc ctggtggttg cattcagtgt 3300
 acccgtttat ttaagttttt tacttaagat ttaattatta ataaactctt atgttcacat 3360
 ataattttct atttattata agtcattctt actattctct tattcttcta tctcaatctt 3420
 tttactatct caccattttc ttttttcctt cattttttta tctcttttat tttctttatt 3480
 tttttttctt tcatctaatt attatctact tctataaata attattttct cttttttctc 3540
 ttttttatat attaccattt tatttctaatt attatatctt atctcttttt ctctattact 3600
 tattttttat actatcattt tttattttct tctaattatt ccatttctac tttatatctt 3660
 cattttcttt cctctatatc atatctattt acattatttt tactctatct tattatatat 3720
 tt 3722

<210> 2283
 <211> 2467
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2283

cgtccatttc ggaccogaac atggtgcgct ggagtcattg tttctccgac caaatttgaa 60
 ggatgctctc cgctttaact ttggctctgc tgggtctcctt ggttttgtcc ctaccatctc 120
 gcttcagag ctgatgagct gtttttgcac ctctacgta cgagagatgg tcggctttcc 180
 tagcgcttct acgtcacacc agcggtgaaa ttgcagcttt tcattttttc ttttctaccg 240
 gcgtccagcg acaatttgca agaccaacct cagccacgct tccctttttg tacgaccaca 300

ccccaagctt ttttgcttga gcttctttgc cgacctagca tcgtaattgt cttccagact 360
 ttcttccacc cctgatttcc aacggccgca ccgatcgact gtatagcgat ctttctggtc 420
 cacttattgt tcttccccgt tgtcttgcac tttgatcccc gcacagcggc agcagcacgt 480
 gcccgctccac cggaatggag tcacgaaata cgatgtgacc acagatccgg cgcaacaccg 540
 aaacattcgc aaatttctgt actacgagtg tcaaagctgg gatttctttt cgttgatccc 600
 ccgtctgggg cggtcgatcc gccgttgcca tgcattcaat actccaaccg cgaggaatct 660
 attcggcggg tcttccagat gccgcacaa gacttcaaga taatcctacg cttctagtga 720
 gctgggtggg gaaaagcgtt tcgctcgcca tcatcgtcac ccgagtgtgt ggccggtatg 780
 ttctgattga gcgtcttttc cggaagaca agattatgat ggcgagcatc attcctttgc 840
 tggcgaggat ggcgtttggt catgttattt tgatatgggg caccaacaac acaaagggtg 900
 atggtttgac agacgaagat attcggcata gggagatcgg aagcaggcta gtccttgagg 960
 cccgatctt ctatgcgatt ttgtgagact gccctatctt tattttctgg attggctatg 1020
 ctgacgcgag cagtatctgg gctgctaagc tcaccgatg tgaatttctc aaccgaatcg 1080
 ctggggtcac atggagaaga tccgtccgaa tatttctcat ctttgtatac tacttcttag 1140
 gatcgacctt gctggcggta gtgattgcca cgcttgccga atgccagccg ttcagccata 1200
 actggcaagt tgtaccagac ccgggcccc aagtgcgcac aggattcgcc aacgtcatca 1260
 ctatgggtgc ctgcgatatc atcaccgatc tacttctcgt cgcatcttct atttttatta 1320
 ttttaaggac gagaatgtct ttaaaacgaa aaattgctct cgttatcctg ttcgctctat 1380
 ccctgatatt ggtcgctatc accagttacc gggtagcgtc cgtgattcag cacaagggt 1440
 ctcagcagta tcgatccctt ctggcttcat tggagatatt agcagctact gcggtcgcaa 1500
 acgttgctgt cattagctct ttcgtcagag acaagggcgt caagaaagt aagtacaagg 1560
 atattctagg ctctgcctca gtcaacgagg gtctcgacca tagctctact cgccgtacaa 1620
 ctatcacgca tcaccaatgg ggcagcgact ccgaccttgc tcgcatctc ggcattcgcc 1680
 tcgacctga cctctactcc cagcacccta tagaaccgag tccagccct atggccactg 1740
 gaggcctcaa tccaaactgg tccttcagcc aacgagctat tgaatttgac gacgaccaat 1800
 cctccggaac cagcctcgac attaaagtta gccgcacga ataccttcgc tcaaacaaaa 1860
 caaccatag ccgcctgaa aactctcccg atcagcctgc aatttttgac gtcggcggcc 1920

tccttactca gccctcacct tcgcccacca gccataacca caataactcaa atacccaacc 1980
gccctggtgg ccaaagcact aatgttacag ccgaccccggt ccttcgagac gtaggaggat 2040
tacttgccaa ctctggtgac atatcgccat tgacttcacc accttcccaa caccatacac 2100
aatcgctcact caacacgcct cgtccaggcg gtctccgacg tggctctcaa caaggctcggc 2160
gacactcaag tgtccatttc agcgattcca atgactcccc agttccgtca tcacgaacac 2220
aatcgggcat ttccgcgact atagttgaaa atgcggacga gttcgaactt caggatgtag 2280
ggggcttgct ctccaagaga caggatcgcg cgtgatatta ttatgatgta cacgtctgtc 2340
ttcatggata aatctatggg tggattgggc tttatgtggc tatataactt tgtttaaaca 2400
gtttggctta gcgacggcgt tctggattaa taggttcgac ttggatgctg gtagcaacat 2460
ntcgatt 2467

<210> 2284
<211> 1499
<212> DNA
<213> *Aspergillus nidulans*

<400> 2284

accatcttca ttgcattccg ccttttgccc gcactttctg ccgtcagata tagcagtaga 60
ctgttggtgc tctgtttcca caggctctta togatattgg ctcacgtgag gcggtcgcgt 120
ctcgtcgcgt tcagatatcg aggcgcctgt cgcctacagc ctgccaggca gtcatttcat 180
ggccaaggc caccagcatg cttggttatt tgcttatatt tcatgcacag tgccgcacaa 240
attgacaacc tatgcttcag cctgcaactt tgcagtttca atcgctcttc ttcaattgtc 300
gatgacccaa tgcccgtttc gcagcaaagc cttattcgct ttacgtgctt gccctaacct 360
ctgcgtcatc cattttcaat acattcagct acgaaacatt gcgtgcactt cagcgcattt 420
gaatagactt gtacctgcgg tattccaacc ttccaatcag ttctcaaaaa tgccagaccc 480
caaggaagga aagcaggcaa ccctggggta cgtcaaagac cggcaatcga ctctcgggta 540
tgtcttacga gactatattc gggcttctta tatccctaata gccgtttaat tgtgcttatt 600
agatatacag gaggtttttt ggtaccaata ccaacgcacc gaagaagcag acaatcctta 660
gttttgggcg caatcgaagc aagtcaactt ctgcaagtcg gccgaacagg gaaccctctt 720
ccttaaacgg aaataccaaa aatgcatcag ctgttacaag aggcgacgat gtcaatacgg 780

gggacgcttt tgaggttaag cctgagatga gagcgggtgc agatcaaaac ccgctgaaac 840
 gggacaagag cgaggacgta agcgatagcg atgagagcga aaaagtacag cccagcaaca 900
 agaggcggcg aaaatcatcg ggcaaaactc cggccaaacc gcaaattgat tcttctcctg 960
 aaagcacgaa aggccgaaaa tcccaagtca aagagcctac accagaaatt gtggtaaaag 1020
 catctggaga ggaaacacca gaggatcctg acgtttcaga agcgggaagaa gaaggactat 1080
 ctgctagcga agatgaaacg gataagaaac ctgaattgaa gaaaaaggag attgaaaaag 1140
 ttcaagcaac tataaagggt agcgggaacg atccgtatcc tgactggcag cctggggagc 1200
 ctgttccata cgctgctcta tgcactacat tctctctcat cgaaatgaca acgaagcgac 1260
 ttcagatcct tgctcactgc tcccttttcc tccgacaagt ccttcgtctt actcctcagg 1320
 attttcttcc tacgggtacaa ttaatgatca ataagcttgc cgctgactac gctggcatcg 1380
 agctgggcat tggatgaatcc ttgatcatga aggcaattgg cgaaagtact ggccgtagct 1440
 tggctgctga tcaaagcaga ccagcatgaa atcggagatc tgggcctggg tgccggcaaa 1499

<210> 2285
 <211> 2252
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2285

cccacacctg tcccattaac cactgtcaga catgtccatt tccacgtcct tttacgtcta 60
 gaacaacccc aagcccagag cccgaattgt gtacaagcta ggaacaggcg atcatcggcg 120
 cccgcccccg cgcccccgcg cgggatctgg aagggtaccgt cggcttgcaa tccggcttgc 180
 tgtcctggcc cactctgagg tgtggttgac aaggaggagg ccaatctttc ggctgcattg 240
 ggatgttttt taacaccgat acccttgcct ccactcgtgg aaagagtcgc tcggagaccg 300
 tcgcgcceca tggaaccagg gtctaggacg cgtgggtgaa atcggcagac aaatcggttg 360
 tggcttcggc attagtacaa ttctttgacc gttcttttgt tcttcatgga accatggttg 420
 tagccaactt tgcctttgcc agaccaggc ttctcgcgtg gatggacgac ggaatgcgac 480
 gcacaaagac tgagcatagg tggctttctc cactgagcat cagggtactcc cgggtctttc 540
 cactatcagc tcattcctat cgccacggcc gacttagaat ctccagccgg agaaaggccg 600
 aggccccgat tcgacagtct ccgtaccat acatcgacat agtgggggtcg tgccctcctc 660

cctatgtatc attgtggcgt caaacgtcag gtacctgcc a ggggctctac gcaagactca 720
cgtcgggtttg gtcaggggtct ggatccatgt ggagttcttt tcctcttcct tttgcagccc 780
agttttgcat cgaaatgccg cacatctcag cggaacgggtg gagaaagacc ctatgtcagg 840
ctgggttctc aggtataaat agggctgagg atccggccta gtttcattcc ttctgcatca 900
acattctctt gatcaatttg gtctatcagt cagtcttttg acagtcattc tcttgtcttc 960
ggacacatta cattctcttg agtacatact caaccaccca cgatctctta tttcaagact 1020
tcgttattgt acttgtcagt cttttttcaa gatgatgttc accaaggctc tcgttgctgc 1080
tactctggcc accctcaccg cggccctccc ccagcccacc gttgtccgtc gtgagggcgg 1140
cgatgccggc gtcaccatcg tcaacaacat ggactccgac gtctacgctt ggtccgttac 1200
ggacgggtgtt agcaaaatgc acaccctcag ctctggaggc ggctcgtaca ccgagaactt 1260
ccaggcgaac cccaacggcg gcggtgtctc gatcaagctg tccaccacc aggaccagac 1320
cgatgtcctg cagttcgagt acaccaagtc cggagagact atcttctggg acatgtcttg 1380
cattgacatg gaccgtgccg ctccacctt caccaagaac ggcttcgatg tctctcccag 1440
ccagacctcc ggtgactgcc ccgctgtcaa ctgtcacgcc ggggacacct cttgcgctga 1500
ggcctacctc cagcccaagg acgaccacgc taccacggc tgccccattg acaccagctt 1560
caccctgact ctcggcgctt aagcttaacc catgacgggg ggctgcgctt tttacttctt 1620
acgctctttt ggcgaacttt ttcattgacac acgctcgttt ttattttggc tttcttcattg 1680
atactccgcc acggtttacg ctttacgctt cgacggggtt aggatggggg taaggataac 1740
ggcatgggtt ggggtctggtt ttgggtaacg gcaaaagtct tgcgcggtgac gcagcttgaa 1800
atagattggt catgttcata gatcatttgt ctctctttgc ttcgcggtt gggatattac 1860
tcctcgctgc aattaaaaat acatgtatct acttcacatg atggagacca cgagttatgt 1920
atagacttct atagacttta tagacattat agaccttcgg aatttctttt cgcagtactc 1980
atccaagaat attcctatat ctccccatc agtgtcacia tctgtctca atcgtctccc 2040
ttccttgcca cttacctccc acttttcaaa tcagccta at tttcttcctt cgttccctca 2100
ctaactttag ttctctctca cttttctccc gtacatacgt ccaatttgtg gactttctaa 2160
ctcatcttcc cattccgat tcatacatca tccttacttc cacactaaaa atcgcttgc 2220
caccatcccc caatttttta accgagtcga tc 2252

<210> 2286
 <211> 1378
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2286

```
ctcattccga gcaatcttcc gcagaccatc taaggtagac gtaaagggtcc tgcgttgggt 60
ttcctccacc gcacactcgg caactgactg ggaggtggcc cccagagcac tcccgtcgg 120
tccaaccata catatttccg agttttgacc tccccagaaa acttctcggc agcaagcagt 180
gactccaagg ttgggagggg catttttttag ggtaggcgctc gtgtgtgacg taaatgggtga 240
agtgtttttg atagggtgact gagattgtaa tcgaacgcga acgacatcta ggggagtcac 300
tagaaaacgg ttagctcttc tcaaaaaggc atttatcaaa gctgcaggctc aaaaccaagc 360
gtggttgccct acctaagagg ccggttagga cactgccaca gggtgcagag accattttct 420
gagtgataga gacttcgcct gccgggctag cctctactgt agaaaccgac cctgtcccag 480
aagtagccgc catgtctgta tcttctgcgg cccaattcca tgtctctgcc gagtggccgt 540
ccaattcaat gctgggtcaaa ttgttggagc gatatcggtc ccaggaagta ccttgagtgc 600
ccggagagga cattcattca acgaggctgt tcagagccgc cgagaatcca aaaggccgag 660
tagagggtact aattcctatc ttaattcatc cagcgcatctg ggtagttgag gaagtagagg 720
acaatcagtg agtaagagac gtagtgatga tgccgcaaga aaagaatgtt ccggctcgggt 780
cgggtggcggc cgctagccgg agataagcat caacctcgctc gagtcatacc tccatgcttt 840
tagtcactcc tcataacttg atgttgatcg tctttgcagt tgctgatgat atgatgacat 900
tcttgacctc aacctgatta cttctgctgt ctctatcatt attttctctc tcgaccttct 960
tgctggcgct ggtgctcgcc cagcggccac tgaagctcgc ttatcgaccg gtggacctct 1020
atctagactg cttgccagag cctctatcga gcaaatcaat ggaggacaac gcggaacttg 1080
agtcttttgc tcgccagtgg cgtgaggaag tctcacgaaa aactcaaact actattgcac 1140
ccggtccgtc acggacgact ccgagcagag ctgccatttc tcaaccccga caatttcccc 1200
ctactcgcca tgaagcatca gcgcgcaaag atgacgaaga cgaggaagga ccggcatcat 1260
atagtcagaa cgagataacc caggggcttg atcggttatc actggcaaaa cggagaagaa 1320
gacgtgttcc acgcgcgcaa gccccgggca gaaccttgggt cggcttctga gcatttcg 1378
```

<210> 2287
 <211> 2108
 <212> DNA
 <213> Aspergillus nidulans

<400> 2287

```
tatttcgagt atgtttacta tgtttatgct ttggactcct cgttatatta tatacgttgc 60
cctatcactt aggctgtccc cagcaaagat aggcttgact gaatttcacc cttggcccgt 120
gaataagtga attggtctcg ccgcgggccag ttactgtaca gctacacctg cagaatagat 180
catttcaagc ttcgagactc aaaataactc atctattggt ataataaaat agaataaagt 240
accacattgc ccgctagccc tgagaatttc gattcgtgaa attatggcca tctttacttc 300
tgctcttcgt attgatatac ctggtacgcc atctcagtgg cgtccccctt cgcagcaaca 360
gccctgcacg ttaagaacgt actaccgtca atcttctcga cagcccagac ctacactcca 420
tgtcaatcac tgttgccgac aaaaccacgc cgcaggcata acgcatgctg ttttggagat 480
agacctactt gctcagccgt ccacccgccg gactcgcaaa caatgtaatc ctgcacgaac 540
ggcttctctt tgcctcttc gccgccactc tcaatctg ggcgcgcgaa 600
gctatcagctttccc atctgctgaa gttactgacg tctctacttg ggcgcgcgaa 660
ttcaccttac tcccgtctcc ctctcaatg ccccgtagat accggtgcg gactgctata 720
gcggtccgg agacagcgtc gacatgctcg tgtgtgctcc aatccactga tctgttttgc 780
tcaacaccgg gaaagatccc gcgaagcccc tgttgcatca tgagacgtgt ggcgcgcgaa 840
attat gagcttctgt ggtgtgcgag gttttaaggg ttattgtgcc ggcgcgcgaa 900
gctttgcgtc ggagccagcc aatcccttgc tgtgttaagc tctcaggat tccaaggcct 960
acttcaatag gtgctggcga ggaagacata ccagtttcag agcaccgtct atattggtgg 1020
atttagattt gtcctgcagt tgcattcatg tcaggtacag agcgaccag aggcctagag 1080
gatcgagaat gcactcacga tggcccagtc accggtcaag ctccggatgc tcaattctgc 1140
tgccgacata tcttgtgcgt ttctatggct caatgacttt gaatatcgaa atgagttgga 1200
caggtctggg cggatcacgt cgcgatttta taacctgac cagggcatat gctgtgactg 1260
ccgaggcgtc gtctgaaaca atcggcgac tgccgaaatt ttggacccat tctgagtgtt 1320
tcgagagttt taaaattgct atgaatctgg ttgtcagcgt cgaactccca aatgtttcag 1380
```


gatttgaact tagtctacaa ttagatcacg cggctggaaa ttagggctgc ttgattgtcg 1440
atccttgatt tttggaactt ggagatgaca tagtaaattc tctagaatct atctaagaaa 1500
gtcagaacca tagcaatgaa aactaagaaa taagaataaa aatgaatcat aaatgtattt 1560
gactcagact tagaaccata cgtcctatct tgcctgtttc agccaagctg tagcgtatag 1620
cctcaggtca ccacctcggg atactcgcat caaacttcgg ctcaaaccgc ctcatatagg 1680
aggtatcatc tcgttcccga atgccacact ccagatactg ccgatgcaat ctccacaact 1740
gccctcgatc aagctcaatg cccaaccccg gtgcccgcgg cacttcaatg cccccgttca 1800
cccacctcag cgccctttcc ggatcgacga tgacgtcctc gtccctcctt ttccacggcc 1860
agtgcgtatc gcacgcgtag tccagggttg gcgtcgctgc ggccaagtgt gtcattgtcg 1920
ccagactgat ccctagatgg ctgttgctgt gcatggacag tctcatcccc caaatcgtgc 1980
agatagatgc cagggtttgc gacttgcgca gccacccca gaaatggtgg tcagacagga 2040
tcacttgtag agctttttgc agtatcgatg gggggagggtg gtcaaaggca acgacagcca 2100
tgtagtc 2108

<210> 2288
<211> 950
<212> DNA
<213> *Aspergillus nidulans*
<400> 2288

cgtgcttatg caactccttt gccttgcgct tcgtcggcac taggaaatcg ggtagctttt 60
gcagcaatgg aaaaaagtcc aagaaggccg ccgcaccggc ctgggtgatc tccgcaaact 120
cggagaagcc gtccaagagc tgcttcatct ttggatcttc ataggtagga gtacgccacc 180
cgaagaccat ggttggtgtc agcgcattgg agtaccgtcg gatatgcttg agaaagtcac 240
ctggctcggg gaggaattgg tagagcatct gtttattctc gagcatttga taaggaatgt 300
agttgcggct tgttgacaca ttaaggagcc cgtgaaccat tttgcgcatg attcgccagg 360
ttggtccata accctgaaat caccttggtta gcaggcccta attgtaaagt gaccaattga 420
gacaatacca tcataagcat ccgcagccct ccgctgcaca gctgctgccc agtatacatc 480
tcctgtctgt gcgagtagat tccactccgt cggtcgagga gctctttgac tgctcatcg 540
ctggagagga tgatcaggca ttgtgtgccc agcataagac tgtatatcgg cccgtactcc 600

ttggcccatt ttgcgaattg tagatgggcg tcgcgggagg gcatctgttc gcagtgcttg 660
 ttagccagca agcctatatg atttgaccgg catgctatgc ctgccgtgtt gctgaaatga 720
 ggctatccga cctgatggat gttgcccagc agagggagcg ttggagggcc cgggtgggtag 780
 tttttggggc gacggccgat gagggagagc cggaagatga gagccaggag gccggcgata 840
 gccaggattg gtgtcaatgg gagcatcgtg agagccgcat gtatcgggca aaggagtata 900
 gaaaagagag atgaatatat gaactcgtga gggaggagta gagtgggtga 950

<210> 2289
 <211> 2599
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2289

ggtggagttt tcttaccttg ggatcttata gataagatta ggtatttacc ttccccacca 60
 agctgaggcg cacgcgcgat tttgatcttt tagcactcaa ctgcgcatcac ttgtttgctc 120
 ttcatctctt gagctcttag ttaagataca ttccatgata ctgaaatatg cagggtaaca 180
 acagatccaa aaaaaatata ctcgatagg cactgcctac agctgcagat gcaagatcgg 240
 cagaacgttc attgctctcg catccaccaa ttccccggga tattctcagt gcacctgccg 300
 atactttgct tcatgagacc gcttggatta ctccctggtc taggaggact tccattattg 360
 aagacgcaca tggcgaccgt ggattacctg gttgtttcct ggcggaagc taaccgaccc 420
 gcaaagctaa ccgatgtaa ccgcagtgtc aaaaaggag aacgaatgca gttacaatcg 480
 agcagacatc gagggctttc tactatgact taaagcgaaa ggaaacacct tgctgaccac 540
 acagctggct gccctgtgct atggaccttg atgctagtgc cgctattgcc gtccctcgta 600
 ttcccgcagc cacataatgc tcgtcgacat ccgcatttag aagcttcac tgctgaaaaa 660
 ataatgagta agaggaccct ggccttgaca gaggcttcaa ggaacatggc aaagggcatt 720
 tattgtgata tgctgcgcgg gatthttgggt ttggccctgc tgctaccag cgtaggagtc 780
 aatatagggc catggggtaa gtcccttcgc gatatctctt tcacaaaatg ggctgaattt 840
 cccaattgcc ttcaaaagaa tcattgacca attcaaggca aaagcactga atggttcatt 900
 gatcacacga ccagaagttg caagtcaata tgcgccaccag agagtaatga atactgttga 960
 gcccgagaaa atattgggca catgaaaaag agcgggtgagt gcagcccagg tctagtgttc 1020

cctcgaaaat gcttaggtta gggccgtag gatagggttg gcaaagttaa caaatggag 1080
aggatacgtt gcagttattc tttaacaacta ttctgctacg cacgatcttt gatagtcaac 1140
cttcatttag gtttattctt gatagtgttg cctcattatc ggtgacctgg cagttagggtg 1200
atgcatgaaa ctaatagcca gatataatgg cacatgctcg gcgacagctt actcactcgt 1260
tgaatgttac gtcgactaca tctttgattc taatgatttt cttacaacgt tgagaataaa 1320
aacaattgt aagttgatgg catatctcat ttcaagtctc gcttttaggt agacgggatca 1380
acatgggttag actacaccga cagacatgga ccaaaactcc gcaactccaa actctaagga 1440
acgatcaaac gccagtgtgc taagtttcag accctaaagt gggacaatgt ggagcgggaa 1500
acaaaaaaaa aaacagatca cgccgcatcc gctgtgggaa tgggttcttg gatcttggtt 1560
ggctgctcgc cggcacggat gacgcgctgg ccagagccat cacgcacgta ctccacgttc 1620
tccttctggg cacgcttcca gatttcgact tcacagccgc cgcgataac accaacacgc 1680
atggtagaga ggaggttggtg tgcggcgttg gagtggtagt agacaccacc gttgaacatg 1740
gcggtggcgt ccttcccaat accggagctg atcatggcct tgccaccggg gtggtctttg 1800
atgaagtccg tgacatcgtg gacaacaccg gcaatagcca cgagaccgcg gccgttctta 1860
gcctgctcga cgtagtcgtc cactccatg acggggagct ggtcaagagg agtaccctaa 1920
tcgagagtgg cacgcttacg gtcaagcttc ttctggagct gctggacacg acccttctca 1980
atctcgttgg cacggaactt cttcaggtcg taggcaagac caagctgcct tccaggccca 2040
gatggaccac ttggtgggat catactggtg ccattcgatg gcgttacggt agtccgaggg 2100
gaactcgtgg tggaagtgtt ggtagccctc tccaagggtg acgagagcgg tgataacgtg 2160
gtcacgaggt gagttgcggt catcgaaggg ctggtcaccg agccagtggg ccaaagagtt 2220
gacgcagaaa gtcgcctgct ggacgaagaa gatacgaga atgccggcat acacgaagcc 2280
gccaaccag tcaccccatc caagaccagc aacaagcata gcacagccaa tcccatcgtg 2340
aaaacgacct tgaggtagtt gcggtgctgc cagacaacga cgggtcctc gttcaggtcg 2400
gaaatatcgg tacggccaat acgcttaggg ttctgcttca tcaccatcca gccaaagtga 2460
gagtagagca gacccttgcg aacggagtac gggctcttgt cgggtatcgg gtacggtgg 2520
tgagcgcggt ggtcacgagc ccaccagcgg atagaacctt cgacggcacc accaccaacg 2580
gcagcgagcc agatacgca 2599

<210> 2290
 <211> 1310
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2290

```

ctgggcgttc gtgtacccat gtcgttgagg acggccacgg tgaaggaccg cttgtcgccg 60
tgggcgcgcg ccgtcgtgaa gctgaggatg tccgattcag tcgtcccgtt ggcagcggga 120
atccggtaat aataggtggt ctccgggcttc aaatggggaa ggctgacttc gtgaaagaac 180
tggctgcatt gggtcacggc tttgacttgg gcgcaggagg gggcgcggtc gtagctttcc 240
aaccaacgtt agttcacctg tccagtaagg gcacacagat agacggagaa tcgaaacata 300
cgtatgtgac cagccatggg ccaccttggt caaattcgct ggactgggtc cccagcgaac 360
ggacggggcc tcgccagcc caaaaggcgt ctggtagtgg atgtgcatgc cgtcggggag 420
gtaggagagc gaaatgacat tgacattggt ttttgatgc gcagatctcg gcttcacggc 480
tggagcttct accagacgag ggaatccttt gccattgcca ttgatggttg gattgaccca 540
gtcgccaatt gggacatcag ggccgttgta ggggtaggtc gtgtcgaccg ttggacgagc 600
ctcgaccgta gcgagggcga ggagcacggc tacgagcttc atcttggtcg ccagccatgc 660
attcatgata atcgcgcatg cacggtacct ggcagggcgt ggagaagggc tttatggccc 720
tcgccccagg cttatcgccg atcgccccgc gaagagatag tgaggttgta tcggctgctg 780
aacgaagcaa tgctgattgg ctgtgtggtg gatccagggg gagactgtta aaattgttta 840
tttagcccgt cgaattagga cctgcctaac tcgccttaaa gcagtctata aagagtctaa 900
gagggttacg agtcggaggt ctccgtatgt acagacacca gtctctccat ccactctcgc 960
cacgcctgat ccggtccaat ctcatctctc ccaggcagct ctatgggtctc ttgcgggatc 1020
tcatagaatt catggctctg gcacgctctg gcggggcctt ctcttgcaa agaacggtct 1080
ctacagctcc agcacagctg cgtcctagca cacgctaggc atacaaacca agaccgccc 1140
tcgacacgat cttgacaccc cgtacaaacc gggttcgcat gctcctcgat ttgcgttccc 1200
atctcaccat catacgctg caaaagacgc gctgcgtctc cttctcctag gtagaccagt 1260
gctctggcga cgatacacga gtcaaaccgc tggctgtggc gcggccgttc 1310

```

<210> 2291

<211> 2598
 <212> DNA
 <213> *Aspergillus nidulans*

 <223> unsure at all n locations
 <400> 2291

```

tgtgagtaag ttgacctagg agaagaatta aaataaaggt cggtgaaagt ttattttcaaa 60
ttcgatacct cggaataata agggaggaaa gttaattaaa acatatccat gaattacttt 120
gagaaggggtg gggcgatctt cacaaaagac tttccgtaca agttattctc gtgtcacgca 180
gtaacaaatt aattttcctt attcttcctc aaaaaaatc cgggcccccg ggaaagttgt 240
gaacttatcc aaaatgtttg gaaaccgggg gcttgattgc tacggactca aagcacaaca 300
tttttcgggc tagccttcat ctagttaagc tcaagegggc ctcgctaccg gtcttctcaa 360
gttggaccct ctctgggggg atatggccag ttgtaccggg ttgaggcgaa ccgttgccgc 420
aggctgtcgt ttagcttttc gtgtcgggca tctttgttcg ctcgaatgac tttgcgctaa 480
gcctggtttc gggccagggc tgtccggcgt acgactttct gcattctgag gatggcccg 540
tctggcaatg gcgagcgtgt ggtgcggatt gcggaccctt cgagtgtttg cgtcggggag 600
ggaaatttgc ggacgtaggt cacgtgccaa tttagtgagt gactcgactt caaagagagc 660
agtcgggtcca tgcctatacg gcggattacc gctactttaa tagtataaaa aatatccttc 720
tctctataat caattatgct attctaagcg atgctgataa gcgtattgca gaagctgcga 780
cacgggtttc tggcaaaaga acataattga tttgggatcg aacagcccag taacagtaaa 840
tagttccatg cattctcttt aaccaagaat aattaaggca aaggaaaaag gcgaatagac 900
tttggcgggg aatccgaaag gcacaggaat cttctatcag atcacgaaat tccaacttgc 960
ttgatcaaac cctccagctc gaactgctga agcgaagaca ccgtcgggtc acactatccc 1020
tactaggtag tgggtgcagac ctgctgtcag tgaacagagc gtctctttgc cggagggaat 1080
cgagctgcct cgggggcgct atggagaacg gttcaagaga aaacgaaaag cccacaaggt 1140
tatgacaacg cctccctaga aaaagaagtc tgcaaaagaa gaaagtcgac caactgcaca 1200
gccagataat tccatgaagc tcatgtgccc agtgcttgaa tattaaccac actcgcatca 1260
ggcaccctcc ggcactttca ccaaaccaaa tccatctccc cttgtaagat aagaaaaaca 1320
taaacagcca aatattcgag acgcttatcc gttcgtataa tctccgcatg aaaagacctt 1380
ttgcgaaggc gaggggaata gactaattta caggatgctg cacttcttct tgctcttgtg 1440

```

ggtcttggtc aagagggcag cacgcgtggc agcctcaaag acctcacgga caccctcggt 1500
 ggttcgagca gagcactcga ggtacttgta ggcgccaatc ttcttgcgga cttcctcacc 1560
 ctacagaata tgtcagttgt gttccaaaca atcacatttt cctcagagat cttacctggt 1620
 cgggggtgac aggcttctga gaggtcttgt tcagctcctc gatcgtcttg gggtcatggc 1680
 gaagatcctt cttgcatccg acgaggatga tggggagacc ctggcagaag tgtaggactt 1740
 cagagatcca cttgttcaag ggtcagcata gtgtccgcga gtattatttt atttataaga 1800
 taaaaaaagc tcaccttctc ttgaacgttg tcaagggaat ccggtgagtc gacagcgaac 1860
 gaaatcagga tgacatgcga gtcagggttag gagagagggc ggagacggtc gtaatcttct 1920
 tgaccagccg tatcccagag agcgagctcg acgtgcttgc catcaacctc aacatcggca 1980
 acgtagtctt caaagacggt ggggacgtag acctgagagg atcgccgtta gtttgcgtaa 2040
 aagagaacac ccaggtcata gacagagttc gacggcgctg ggcggcacga actgaatgtg 2100
 gaagctaacc tcagggaag tgccctttga gaagacgctg cacgggaaga atagagtaag 2160
 taaatgatgc tgaaaggata cttcagatga cctggaggaa gacttacatc aacagacagg 2220
 tcttaccgca ggcaccatca ccaacgataa caagcttgcg gcggatctca gccatcttgg 2280
 tagaaaaatc agctagccga tcgaaatgaa aattgtttga gacccaaaga gaatgaagtc 2340
 aaaagcaaaa gggaagaaat aacaatctcg tgtgcagtgg aaggggcggtt gttgaaagtg 2400
 gatggttgag aaaggaaagg gacaagtcag acgcccaggg gaaaagggtc accacgtacg 2460
 gtgtagaaac tgggcgcaca gccangatta aaatagaaga gttggggaga cagacggttc 2520
 agagagtga ataaaagtct agcgagtaga cagggtcaaa agcgaagtta agcaggtgga 2580
 agcccagggg aaggaaga 2598

<210> 2292
 <211> 2329
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2292

acaccagac tggcatgttt atggccaatg cgcgagactg cagtagcaag agcctcgggg 60
 tgatcaatgt tactagcata ggcccagaca gcatgagcaa gagcggcagg ctgcacgccg 120
 gtcgcttggg gcgaggagt gaagatatta ttcagctcag ggtgcctctc cagcatctct 180

ttgtagaaga gagtcgttat cgtgacgccg tgctgttcga gcgctgggat tgttgccctg 240
 acaatctgct tttgctgggg ggtgagagca ctggctcgcat acgatgcgcg ttgacgcacc 300
 agacgcagtg caccgcgtcg caacacattc ttcagcattt tgaactgtct aattatgaag 360
 aagtgcaaaa aaccgtattg tctcaagaga caaggagcag cgggtgaggc gtcttatgaa 420
 gtcatagctg cgtcttgctg aatccccccag agctgtaact gattccgccca gtcacctggc 480
 caggcaagcg atttaccgat attatagttt tctactagta atgaaggctt ccaaaatccg 540
 ctaaagtta ttttctattc gctttacttg tgcgatccgg cgccagcaaa acagcctaac 600
 atatctactc ctctactat aggtagtcca gaaaatagta tagaataggc actctagtag 660
 tacctttact tctttcagga taacctcat cagtattaag tgcgcgaat ggaatggccg 720
 ggcaccaata ttgcgtagag acctttgatc ctggcaaaat aagtaggggtg gttctcgtgc 780
 caactatgtc tcctccact catgctcagc agatgcatgc gtctgtgta gctgcaagtc 840
 gacgattaat cagcggagct gggctgtcta ccttcagtc tctactacag actcgtcagg 900
 caggttgagt cctaaaatgc tccgattggt aatgtgacca atcatctccc ggatgcactg 960
 actatatttg ctgcctgggt ttcaatactc taaagatagt cactttgtct tttaatgctt 1020
 ccccgaaactc tttctatttc gttgatcagc agcacagaac gcgcttgtag tcaaaggaat 1080
 atttctccaa atccaccata atatttggtg gtctatttaa ctgggcagcg atatcagggtg 1140
 agccctgtta gctgcgtcta taatgtcaag acagcagcaa acgcccgaag ctgcataatc 1200
 tcttgggctg tcctatactc tcgcttgcca ctgattaaga cgtgatctgt tcctgtcaat 1260
 cgcttttctg aagtcacagt ctgaagaatt cttctaagat gtttaggaag tttactgtaa 1320
 atgatcgacc ttgtcatttg tacactgtga atgattctgc tggttctgtg caagcaccaa 1380
 aatggcatta cttatcgtca gttctgtaag gctcatgcct atgcttttgt agacaataag 1440
 ccttggttaga taaaccactg tgtctgctta atctgccggc cattgacaaa tccaatcttc 1500
 cagttcatca gggcaagtat ctggctgagc tcaaccatgt tttcggcctt gagcttgctc 1560
 tgaaccgcct ctctgaatt ttgaagagcg tagtggcggc cgtcaaccag caccaccccc 1620
 gtgtcctcgc cgctgatcgg gttgtagcca ccatcggcag cgataatatg atgcagtatt 1680
 ttgggatcca gctcgatcat gttcgattgc caggagccga aggcctagat gaaaggtaga 1740
 cggccgttat tctccgctc agtcaagtag ctggcgggga aaagtgggtc tcgggaaggg 1800

gtggtgcaga agacgcaatc agttgcgctg aggaggggtt taatctgttc ctggtaatct 1860
aacgcaggtg tgcataaagc gaaaagagca gtcagatttc cagcgggcta cgtttctctg 1920
gacaccgttc caatgagtgc atccaccggt tcccgagaag gattcgcaaa ggtaatggtt 1980
ctgacctcag agcctcttaa ggtcaggata aggcgcgtgt gcctcagggc ctgcatgcc 2040
gcaccaaaaa tgacaatatt ttcaacattg actctccaag tgaaaggcac catggcattc 2100
atggaagtgc ggtagccagt cacttcttcg gaatctaata tgcccgtag atggccctat 2160
ccgatcatca ggattaggat tccaagcaat ggatccttct tgccgctggg tctaagagaa 2220
ggctcgacaa ggagcttgac accgacgctc gagtctaaag taaagggcct gaaaagagt 2280
cgttgtccag ttgggcgagt aatggcacta ggatcgagct ggtacagac 2329

<210> 2293
<211> 2935
<212> DNA
<213> *Aspergillus nidulans*
<400> 2293

cagacccacc ggacaatatg tgtcgttgat agacagaatt aacgtacggt caccgatgtt 60
atcgggtggcc aacaacacaa acagtatcat ggccctgaac atcagacagg tcaggctgat 120
gggtgataat acgtacttca gctctcagag tctgggacta cgagctagag cgacaggtta 180
agtggccgat ggaaagggtg cggaatgttc gacaacgtca aggtaccgac atatcgtcca 240
ggctccagcg catttagtac ttgcagggtg gagcaatgat ggcacggcaa tgcaagtagc 300
aataaggatg cgcgtataca catatattat tgtcaagata agatccggcg atccctgttc 360
gacatcaagg taaccatcac aaatctgcta cttcaaacg acatcggcag tttaggaagg 420
gcgcaaggta gggtgaccgt ttggcaggct gctgctattg ccgagctgtc ctttgagatg 480
acaccgcaag accgtttatc agtgtctacc accgcccagt cttcacagcc tcaaaagtgg 540
acgtctcttcg ttgttcgaac ctccgtgcgt ttctcctagt acagctgtca taaatcaaag 600
ctcagcttag atacgtgccg gggttggagc atctgggtgcc aagcttgggc catgggcacc 660
ctaaacggta gggcagacgg gctgtcagat tgcgttcttg cctactccag atttcgttgg 720
tcatcaacat ccaagcatca ccgagagtcc gacatcgtca gtttgacggt gagaacgtcg 780
attccgcagc cgcttgaccg ctccctttct tgaagttccc atgacattca gaaggataga 840

ttccccgacga cattctgagc atttgttatt ggatctgagc gcaactcgag cgacagtgc 900
 agtcatgtgt gaggagataa gaaattattg atgaaaatcg gccacgac taccagttag 960
 tgttcagatc agagtttcag attccttacc gctccggttt ggtcacttgt catggacaat 1020
 tggccccgtt tctcgctgtc ctgtcgcccg ctccgcgcgc accgcctcag ctgcgaatcc 1080
 actgccacag ccagtgactg ccacagtctt gaaacaacac ggtgtccgcc ttgctggata 1140
 ccttctccac tgtgcgttgt gggctcgtaa ctcgtaaggc tgtttgctgt aaggagaagt 1200
 cggagattta ggaaaccgtg gcccatggaa aggggggtccc ggaactgctg gatattctta 1260
 ctggtggctt ttatcactt ctctctttgt actctaatat agaatcagtc gacaagtctg 1320
 aagtctgaca agctcagtaa tacgtgccgc ttgagccaat tgaccgctaa ggaatgcaga 1380
 tatggagaaa gggtaccgct ggcctttgga tcgccaaact ccccttttgc ccggctcagc 1440
 tttgttctcc tgatgatttc agataaccca gaccaatagc tgacaaaatg tgtgaggggc 1500
 tatttctgc tccgtcctga atggtctata tccttagcca accgtcgaca agacagcgca 1560
 tcatcgatgt caggtgacgt atttctaaga attcatccga catcatcctg gatccatgcc 1620
 acctccggca atgtggtttg agaattgtct tcaactggctg cagcacctcg gtatttaaaa 1680
 gcatttgggt tgccatggcc gatggctttg tgagtcacta ttgaccaaat aacggaactg 1740
 aaatcagaca atacaacctt gctgcacccc gtaagatagc cccatagcga atccacatag 1800
 ttaaactaac cccagagaac catgatgttg gtgcgtagaa gattctgtaa catgaataaa 1860
 ttcttgtcac agaaaaactt gtcattattc gctacagtgt gcaccttca ttcttaccat 1920
 atgtcatgca ttttctcctt tagcagacaa agatgcgcat ccatatgttc ccattagata 1980
 gcttgtcatt ggaagaatgg aaggagtgcg ttttggcttt cgggttgatt atgatgaaca 2040
 aaagattttc tgtggggtat tttccttgtg tcccttgact ctaccgtgtg gagtaggtag 2100
 ctcagggact cgggatgcga aatgtaaact ttatcaacaa aaggtaaaga gtgctgatat 2160
 cgtccctcct aacaacctga aacgcattcc acagtgttga ttcagcgtat tgctggcgga 2220
 atagtcagcc ctgtacgata tacatgtttc atgacgaacg atgcgattat cagggaatag 2280
 acacattcga gcgaatgttt gcttctctag tgagcgtggc acggtcaatc tttacgtaga 2340
 gttgggtcag tcgtggccag tcacaatgca taggcattga aacggtgagc aagaaactcc 2400
 catgaagtgt ctgattagtc cgtcttgctt ttgggcccgc atttctggca cagtaaaatg 2460

tgctgctact tgctatcgcc ctcgtaagcc tcaactacgaa gacaccttgt gataatgacc 2520
 cggttttagta tttaactaga ccgtaattca atggataaag gcagacccca tacatgccga 2580
 cctaaaccat catccctttc tcagcctaac atcgcggaagt acgggggtata taggcgccta 2640
 ccacccttca ctctccggcc tttccctcgc ctaccatatt tcccatcact cctctccttt 2700
 cagactttct ctgtaaacca aagaaagacc cggacaaagg ccactcgggt gtgatcgaat 2760
 ctactctcga gtctggcact tcttctgacg ccactaccgc tgagcgacca tccctaaggt 2820
 cttgagacta tatcacaatt gcttaagact cggcacactc tggagtatat ccggagacag 2880
 tataactaac ttcgcagcag ctgttttttt ccttttgctt ttttcctttt gatgg 2935

<210> 2294
 <211> 2328
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2294
 gaaagtgaag agattgtaat agtaggacaa aaaggggaaga gaaaaggtaa aatagcaatt 60
 gtataagaag gaatgaaagt ggaaagaaaa agataggatt agaaagaaag agacgcagaa 120
 aaaactagaa agtggttagag aggaaggagt aaacgcatat aacagagaaa tcggtgtaga 180
 acaagataag gtaggggtaca aaattgtgaa taccctcaaag aacttggacc aagagccgtg 240
 gaataaagaa ccctctaatt aaaggggggtt aacgccccaa aagttaatag gcttgataga 300
 aataacattt tgtccaagaa aaacgaggtt ttcaccatt gtcttcacaa tgctcctccc 360
 cgagtaatca cccaccgtgg acaaagtcaa ggcgcaaata aagaattgct aacgtgactt 420
 tccctcccag gcgttaaaaa ggccctggac tgaccaacaa gttagtttct gggcacgttg 480
 ttttattaaa aattgcgaaa aattacaaag gccggccgaa gaagtcgcaa aatgatggaa 540
 acaatgctcc tacatcctcg gaccgccctc cctccaaacg cctatttggt ggtaacctca 600
 gtttcgacac gactaaagag tttcttgagg agcacttttc gcaatgtgga accgtgacca 660
 acgtccatgt cgctactttt caagattccg ggaaatgcaa aggttatgct tgggtggagt 720
 ttgaggactt ggaagcggct aaaacggcag agagagggta taaatatatc actgaagaca 780
 acgaggatga agacgattcg gctcaaaaac cgcagcggag aaaaatatgg ctgaaccaag 840
 ttctgggccg gcgcatgaga ctcgagttcg ctgaagacgc aacgactcgc tataacaaac 900

gggttcggttaa gaacgggggag gggaaaaaagg gagctacagg caacgacggg gatgcagagc 960
 ccggtgattt cgaggaggtc gcggtgaaa agcctcaaca gaagaaggcc aagaacgcaa 1020
 agccggatta taccgctac gacgagtcca ccgtgcagaa gctgagcggc gctattgttg 1080
 agggtcaggg caggaagaca acgtttgact gaagtcggaa caataaagag tcccccttca 1140
 atgatatgag aagatatata ctgggtctac tcctgttcca atgtcgctgt ttggaaatgg 1200
 atcgtgtaag gacgagagcg atatttgcta tctaactctg caggagaagg gcagcgtctg 1260
 gtaatttgac gtggcacgag atagacgtga gatcactgat acccaaggaa tggatttact 1320
 caacgcagtg ttaatcatct taccggttat aatctcggat catccccaat cacgccactt 1380
 tttgttcgt agaaatatag agtaaccagg catatcagaa acgccccgcg gcctgaataa 1440
 gcagcagtct ggacgctcga cagccgtcag ttcgtggcat ggaatcgagg aacaagtagg 1500
 ctccggtggt tccaggaaa caatcataga taccggcag ctttggggga tggaatgatg 1560
 ccgtcgaccc ctcaacaaca acagtccata cttttacctt tctttctaaa atctgtaacc 1620
 cgggctctta cagagttgtg ctccgtgtgg ttctagaatc gctgagtggc tcaggcggcg 1680
 ctaaccctgg ttgggatgat tgacatctcc ttcgatgtca tgtctcaacy tcgaaaccat 1740
 caaatcttct cgactgtccc tttagagggt tgatttctct tttcttctcc gctcttcttc 1800
 ttatagggtg cattatacca ttcagttttg ttttatatac tcccccttcc tttcttggtg 1860
 tcgccccttc cttttctgcy tggagtctgt catccgcct tgcctttca acccgctgt 1920
 ctctccgtg ctggtcggtg caccattcc tgcattctcc tttgcaacgc cctgccgtac 1980
 ttatttatcg acgaacaata tcgcttatat aataacgaca ctcatatagt tcattccgaa 2040
 atggcacctc atcgtcgcaa tatagggtgc agtcgccgaa aaagacggga ggacgaaggc 2100
 gaggatgaag gctcgttgga tggtagatg gaggacgact ctctaagcga aggtcaatc 2160
 atcagccaac aggacgaaga cgacccgac ggagagggga gcgacgagag cgacgacgaa 2220
 aatataccgg tcgaccgtcc ggccaggcac gagatcaatg gtcgtgtgcc tgaaggtcca 2280
 caacgtcgtc actcaatgtc acccaacaag atcttagaga acatgcc 2328

<210> 2295
 <211> 1272
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2295

aaccccggcc atcgttctca agccgcaaag tacacggtca tgcgtctaaa cttttccgtg 60
gtcagtacaa caactgggaa gatctctgtt gcattttcct tctccggctg atgggaaggt 120
ccgcaacccc ctagcaatgt tggatattat acatccttac cgctgtttct atcatctgga 180
atgtcttcgc catcattgcc atcatcggct tctgtcggcc cccgaagaaa tctggctgcc 240
tgagacgccg gggctcttgc tttcactgaa tttcaatttg tggtagggat ttaacaagca 300
ggtaagcagc cagggccatg tgaaaagcgt gatcgtgagc gtcacgcggc gttgacattg 360
cccttagcct tcaacgcttt cgagacctt tcgttggcgg tctttccagt ttggatcttc 420
cggaaggtcc agctgactag atacaagaag atcggataa tcatgatcct aggcgccggt 480
atctcgtagg tcatccttac cgggagttga gatacgaga ttgatcataa gtccgcacag 540
tgccggcgca ggcacgatgg taaaatgtat cctgctgaga aatctaccg agcacgcaga 600
tataacatgt cagctcaccg ggagtcgacc cttgagaacc aagtgcatac taaatacagg 660
gtcctgggct cccatcaca catggtattc gtaagtagac cttcttagt agtccatca 720
ttcccatcaa gtcagatgtc cagttgctga cgaactcaga atcgaggtag actttcccca 780
gaacttcata cctctcagca cacttctgtc acatttgat gtacgtgatc atagtctgtg 840
cgaccctacc gacccttccg caagcttacg ctgccatctt gcacaagcgc ccacccctact 900
acgactcctc gaactaccgc agcggcaagt cggagccaaa gcaccattg atccgcctcc 960
agcgactgcc agttgcctcg ctattcgaaa ctgtcgtgc agaggaacgg gtatcgagcc 1020
aagagaatat catcgacaaa gttgggaaag acgggatgag gatttagaag acaacagagg 1080
tcagtatcgt tcaggagagc aagggctcag ctgaggtgga gggccatgac ccgaagtatt 1140
tgcttagaca gaatcctttt gaaagctcca ggggggtgcc attgtctagg aactgaagga 1200
tgtgagttgc aaaatggaag acccgccatt ccgcatggat atgatattct cctagttgcc 1260
acgtcggagc aa 1272

<210> 2296

<211> 1386

<212> DNA

<213> *Aspergillus nidulans*

<400> 2296

attagtccca gtctctgata tatccactaa ctgtcccgtc tcgtgacgga ctccgcctgg 60
 agactggagg ctgcctcgaa atgcagcccg tccctattcc gaaagcactt gtaggtctcc 120
 gcggagtact tgactaatta tgggtcccgt atgccgtgct gatcgaaatc ccggcatcat 180
 tgggtgtcgt atcccgcaac atcatttgca gcgccgcaac aaatactagg tctcttggg 240
 gctgtgaccc aatggaccgg cttgccgtgg taaaagagtc agtgcgctgt gcttataggc 300
 tgccgtaaat gcctccgtaa atgcctagtc tactgtcatg atgccctgt tggcatactc 360
 gtatataggt aggtcaaggt tgcaatagaa gccgttaact cagcttcttg ttgcaactggc 420
 tgccctgcaca aatgagcagt gctgttatat cagccatcat tcccagactg gataagaatc 480
 caggtcattc tagttcagga catgatcact ccaagtgggc aagtcaaagc cagtgcgcgcg 540
 aagcattatg tcgaacagca gtgatggctg gtctaggaga aacaattctg aacgcgggca 600
 gtggcaccac caatgaaata aatgggcaaa ctgaagaatc ccaatcttag tatcagcggc 660
 agacaagtcg cctaaacttt atagactgta tactctttcg gacgtgggtt atccgggttt 720
 taatatgcct tctccccgca ctgccaatcc tgccccgtcc ggacaatcac agtccgccccg 780
 gtcggacttc ccccataacc acattgacgg tatatcaaca tctgcatcca caaacacttc 840
 attcttctgg gaccgtttac ctactgagtc aaaatgccgg aaatcttcga cgacaagtcc 900
 caaacactgca ttccctttct ccttcagcgt ctgaaagccc accaggcgcg gcacagcaac 960
 gaccccgcca ataccccgcc cttctttctt ggactgaacg gcgtccaggg cgccgggaag 1020
 acagtcctgg tatggccctg gccagatcag taatggactt gctgagagca aggtactaag 1080
 gaatcgctag gtgtccaccc tcaattcaat cctccgctct ccgccctact cctcgcctgt 1140
 ggtaaacactc tccctcgacg acctttacct cacacacgaa gaccaagtat cctcgcgaaa 1200
 aagcaacccg acgaacccgc ttctccagca ccgcggccag ccaggaacac atgatctccc 1260
 gcttgcgcaa tccgtctttt cagctctacg cgctggccgt cctacggcga tcccgagta 1320
 cgataagtcc gcgttttagcg ggcaaggtga tcgtgtccct atggaacagt gggagactgt 1380
 gaatgt 1386

<210> 2297
 <211> 2640
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 2297

```

ggcaattgta tacgccgcct tgtctcctga cggatctcat tattatgtct accgcctaga 60
ggtacatatt tctatattga gtagctctcc cggcaatgcg aggggtaagg atgtctcagc 120
tcaggtaa at agctgcgatc taagcgcaca ccggccaatt atcgtcttag gctacgataa 180
actttgacca gcggcaggaa atcgataagc cagggctctt gagcgcgaac cacatgcgcg 240
gcgtgtgcca atgggttcgtg gcttttagctg aatctcgatt gaatcgacgg atgagggtcgt 300
caattagttc agaaccgaag atgaaccacg gcgacgggat ataagcgagg caattggcta 360
cagaggggtca gagcgaaata gtgactgact cgcggcagat gatttcttga aagcgcgatg 420
ctgccttgga ctgagttcga tgaacatcga ccgggggtttc aggtgtactt cggccaacgg 480
agtagcttgt cagagagaca taatagggac ggaaagcaga taagctggct gcgtgtctta 540
taggggttggc gaaatcaaga tggaccgtcc ctgataaaac gaccgttgct gacggggcgt 600
tgtcatacgc ttataccctg gtccctcaat ggtccagacg agctgagcgt cggatgctag 660
ttgtaggtcg gcagccttgt cgttgtgttg tatctgctct gtgaccaggt gaccagtgta 720
cccagtgtcg gatggtgccg ccgatgatgt gccggcggat gccagcagat tgagattgcc 780
agaccgcatt ccagttcttg tctcctgaa aattgggtcat gccagtcact cattccaggg 840
acgaggggacg attatggaca tcaggtctcg gatgcgaatt ttttgaggtc cagccagttc 900
gattccgacc gcacaaaagc aaatatgcac cgtatcttaa acggtgagat gtcaggctcg 960
tttctccaga cttcggggcca aagcagcccc tttccgaccg tcgaagggtt tctgcgcat 1020
cctttgcctg cctgaagtag tatagtgtat tataaaagcc ccaattgcaa cgaatgggct 1080
gtgggcccag gagggctcggc gatcagtcgg ggggtcgatt ccttctgtca attcgataca 1140
gcgtccaccg ttcagtggcc acgggtctgc cagtccccgc agacggggcg aaataatcca 1200
tgcgagaaa ccaaacagca tgggaggaca accagactat tggattcgac attaccagaa 1260
ccgtggataa gagecgcgact atgcttgctt gcccgcta at cttcggcagc tcgaatcggc 1320
ggcgatggc ttggctggcc acgacgatcg cagcaaatgc tccgcgtcct cgtgctggca 1380
gttgccccga tgctcgtggc gaaggcttgg acgggcgtct tcacgagtca ctagaatcag 1440
ggacaacatg gtgggcctcg cagcaggtct tatttgtga cggtcgggct ggataccagg 1500

```

atacgccatc gctgtctcca ccgtctcctg attctgcaag actactgtta gtgtgggcga 1560
 caggcgggta ccttaatggg cccaaagtag gccgctggga gaaattcagt tggcaatggg 1620
 ttgacaatgc ttgaccactc ctgaatctct gccgtcttct caggtctctc tctttcacac 1680
 actctgtctc aatcactccc ttcattccatt agccatccat tctttctttt catcatcatc 1740
 tactactctc cttactctcc cacaaccctc cgacactcct cggacgaaat gaaagacggg 1800
 cgctgctgat tgcttcatct gtcacacagg gtatgttctg aaagcagccc aactccgcat 1860
 cttacgcttg tcttgcattc cgtctttgtc tcccttttct tcccatctg cctggaagtc 1920
 ggaccgaaaa agaaaaaata tcataaagtc agggctgcag gcgaaggacg tggaaaagtg 1980
 tccggccccc atctgtctta cagtcagaca atccatgtgc agcgtgaaag acggctcacc 2040
 ccagaggaga gataagccct gttgggcaaa ataacagaag aagcgcaggc tgacgggcat 2100
 ttcttacatt ctacgtgggc tgtttgtaac tgaccttttc tctgtagaga atcaccattc 2160
 ctaggtatcc ctatttgta ctctttaatt catttattct tgtttctatt tttttgttct 2220
 ttattctttt atttatcatt aaatttggct gtgttttgag ctccgattat tatgattatt 2280
 ttattatgag gatttagtag agaaggaggn agggaggggg ggggnnnngn gnnnnaggcc 2340
 ccggnnnngc cccccctgt aaactccctg tccctcacgt ttttattttc tgtattattt 2400
 attctctctt actctcgtac acattcccct ccattctttt acccagtgtg gtagtccctc 2460
 actttgcctc cactctttct tgtatcccac atccttctta ctctcttatt ttatcttacc 2520
 tacctccttt atcgttgttc ttacattata ttctatcata atcatattat atctacattc 2580
 tctttcgtct cccctttttt cctcctttt taactcttat ttattgtttt ttataccctc 2640

<210> 2298
 <211> 899
 <212> DNA
 <213> Aspergillus nidulans

<400> 2298

tctcgggctc ggtgtcataa tcttacccta aatatcccca acgctttatt cttgcctagc 60
 tctcgagtac tgcgtccgaa cggacaaaat gaacgactat tctgagaaag acagaggggc 120
 gatattcag gggaatcacc aagggaagg gcaagggcaa ggacaggggt atgggtatgg 180
 gtacgactat tgccctcatc aatattcata tccacaacat ggacctgcat ataactatgc 240

tcttgggtact caagctcaac cagcacctgg ccttgcatac aattacaacc gtccatataa 300
 catcccatta ccgagctatg agagtcacaa ccagaccggc tatggcaaca ggccctcgcc 360
 tccacacagc tacggccatc aattccaaag ctacagtggc tccgggccac actacaaaaa 420
 tacctacagc ctttcgctac atggaggcag tggtcctatg ccaggcttat acgcaaacac 480
 cagcgcagcc gcgtccccta tgaaccaacc aaacccggtc agtaggcccg ggcccaaac 540
 ctttctcttc cgcaaatttc cctcagcggg gaaggtgatt ttattcacc cagccggcgc 600
 gcccctcacc tctccaccgg tgtactgtct aagttcctcg cccgacgcag agtacgtcct 660
 tgcgcgcgga tcggacccaa acaaccccac agcactcgtg ggaaaagaga aatcgcatac 720
 gttcagcagc agattcgaca tgactgtgcg cggaaggaca tgtgccctga aggggtcgac 780
 cctgggggtcg acatacaagg tcgacattcc tgggacgggt agctacaaat ggcacacaga 840
 cgatttctcg agtaagatgt ggctgaagga tgagagcaaa tgtgtccttg cgacctact 899

<210> 2299
 <211> 2645
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2299

tctggcaagt aagtacccat aacatacgca taccactcac agagcgccctc tcggatcttc 60
 tcattcttag tgggattctg cgtgtggata ttactcccc gcacgacatc cggatgctca 120
 gccaggagct tttctcgcaa agagaggcgg gagaggatg ttttgtccat agggatcagg 180
 tctgagaggt cgagatgggt tattgctgtt atcttgtag ttattatgcc ttcaccgatt 240
 tgtagctgga ggctattaag ggactagaga gacagctcac ccatagttaa gtgaaacttt 300
 ggcttgaatg gtctgaaaac aaggggctcg gtcgtttccc agttgaagct ggggagaggg 360
 gtgacaggag gatagccaaa gcggccttgt tttgcttctt ttcttgata tgggcttggt 420
 gactcgacgc catgattacg gctggcggtt gggttacgct ataggcgcgt tagctggatc 480
 tggacatact ggcgagtagc gtcgtactcg gatgtagatc aaaaaaagc atatgaaaat 540
 tgtgaggaac gcgaccagcg gagtccttgc gagaacgaag tccaagggtg gcattgtacc 600
 cacgttgagt tattcttgta ccctttgttg cgatgggggg ttccagaggg tccagatata 660
 aggtggtaat cagttggaga agtcgtatac tgcaggtgac ctggtgatat cgctaagctt 720

ccgattggcc gtttaagaccg tctcaacgcc gattgatcca cgctccgaca gatgaagggc 780
 accaaacaga taagttcgct ataagcagtg gtataatgta cacagcccaa cacggggaag 840
 aaggacagcg ggcgggcgcaa cgccccgcaa aaggacagcc atgtcatggc aaaagaaacc 900
 cacctcgccc gttgtcacat taccagggag gaagaaaaac tcattactcc ttaaataaac 960
 actgtcaata tgattcggac tgcccgtcc ttctcttcag cttttccctt gcgtcaggat 1020
 ccgctctcat catcacattc tctttgtcgt ccatctccga tgtagcgctt agaccgaatc 1080
 gatccggaag ctcatcaga ctcggcgtc ttggacgctg catacccctt gcccggtccc 1140
 caaccgccgg agtgtaatac accgccaggc gccaaagtga cagagccata tcgagtatga 1200
 tgagggtcac ccaggggagg attgtcacga cgccgaggaa gaactaagat agaagaccat 1260
 tagcgtttga tcacagacgt gcatcaaaag tatataggaa tattgtggtg ccatacaaag 1320
 aaccgcacga ccagctctc gaggtagatg aactctgcgg ggaggatgga gtaccaagcc 1380
 atattcgctc gtataggtat cctccgtaac aaaccgtacg attgcgccgt ttgataataa 1440
 ggttggtgta tcgaatagat tattaccagc aaagtgcagt aaataatcac ttcactcagc 1500
 cggggtttgt gggatcagaa accattgatt aactacgcag cgttgccgat atgtcggagg 1560
 ctggaactcg gtggcggtggc ccgatcagtt gaggtgttgc accaggcagc gacgaatagg 1620
 ctgctgattc aacttgcala gagctggctt gtataagcat cgactgttcg aaatggcaac 1680
 cgcacgtac agctcaggac gtgcaacggt ggccgatggg ctgcctaggc tgcgactatc 1740
 tgtggtccga gtgttgtcgg gaaagagcga tcggcccaat ccggtaatg gtaagcatgc 1800
 tcctggtgcc tgaggctgct gtcgcacggc caaagtgtag ttttcaggta caatagacac 1860
 aactagacac tttgtcaatt ataaatgata tttatataca ggggtatccc agtgtgtatg 1920
 tccaaaaaca gcccaaacc aagggttgaa gtatacacgg ctatagtaa tgcaagtaaa 1980
 ctggaaaaag ttctatcaac gctaaacgca aaaatcacct cgccatacga tactgttcat 2040
 atgatgtaaa tgcattgtca tcctgatcaa caggaccata ccctcctccc ggccgacacg 2100
 gttgcatgct gactcccgct ggctgctgca cctgtccgag gagctccgtt tcaactctcat 2160
 tctggtgctg gtagagccct ctgctcatcc cgctaccgt tctgaatggc ggccgacgga 2220
 acacaggatg cataccctgg tttaatcgcg gatcgatgc ttcgggctgc agcattggca 2280
 aacttgggac ggatggtgcg ggagaaggtg cccgagagga ggtgggggac cagtcgcca 2340

gcgcgctccg tggcgtgtga gagcgtcag tcatcaaate ctctggtcgc ccatagatgc 2400
ctccgccgaa ctcttctctg aagtcggcgc gatccttgta gtaagcgaaa tcgaggtgat 2460
gctccgggac cacctcgaac ggagccgacg tgtccggcat ggtcttgcca ggctgagatt 2520
tcatcattgg tccatgacaa tgtctgaata atctccctcc gcttcattac ctcccagccg 2580
tccacggtaa attttgctga gcgcgttggc agccttggcg tgcacaatag gcgtgatcaa 2640
tggtct 2645

<210> 2300
<211> 2056
<212> DNA
<213> Aspergillus nidulans
<223> unsure at all n locations
<400> 2300

acctggtttc tgaagctgtc acagtcacgc cagtctcctg cggctaccga agaaccagaa 60
acacagatcg agatcctccg ctatctcacg tcacgcagga ttatttcggt actgagagag 120
caagaccgaa tggcacatcc gatctggcaa acaatccatc ccaaaccgcc tcggagatca 180
gcctgcaaga ctcttttagca gattcaggct ccacagaagg gtctccacgc accctagcac 240
ggcctgcaag gttcgttaac aagcctggat tacctgttct tgaacaatgg tcagccagggt 300
tatacagcgc cgcgagtccc gaggagaacc ccgagctcca acaggctctc gaattcgaaa 360
caaggaagaa agctgccatt caagaacgtc gaatgcagct tcagaacccc aaacctacaa 420
cttcaaaaaa ctctcccatc cagagcaggt accttgccgc tcgggctgcc ttgagctctc 480
agcctagacc tagttctgtc acgcagcagt cgcgatcaga attgggcgag atttcatcac 540
acggcaccgg ggtgtcaaag acgtttctaa gcccgcaaga tccaagggca tacctcatac 600
agctccagaa cagtgatgtt cccggtggtc caaaactcaa gcggatatcg tctgccaaat 660
tgctttttga gaaaatcccc gaggaacatg acttacattc tatgggcctt acattacctg 720
cagggtgcc gttgatctat tcatctttca agaacttatg gattaatgat ctatatacgc 780
agtctggtga gcaggctcag gggtttggtt ctctgatat aaagacggct tttgaaagct 840
gggacgccca cttatcgagt ttaattagag ctcggttatag attggcgaag aactctgata 900
tcccgaatct tcaattcgat ttctccgaat tgtctcgggt atctcagggc agtgggttaac 960
gacaatcggc ccagtaaccc agtcttttat ctgcctttac aactgcgata tcctgcagtt 1020

catcctatct tatatttcgg atctattagt tacaagaacc aagattaatt atatttcttc 1080
catagcgat tccattgaat cgagaatatg gatataattc cccgggctga gtggctcgaca 1140
tagagttttt gtagagtcgc tcgtaagctt gtaaattcct tcttacagtt acagtaggag 1200
cgcactttct tggctctcaa gcctctccgt tctgctgctg ctctgtcatt ataccaactt 1260
accgtgtctt aagggcaaaa gggaggcagt atgacattcg gtcgactcaa taccctctac 1320
cccgtttata ttcatlgatc aaaggagacc catctttcac cctttcgaga ttcccttgac 1380
aatatcaaac gaacgcacga aatactcttg cccaaggag ctgacatgcg ggctaactctg 1440
cacattcggg gtatcccaca actcatgttc ttccggcaga gttccagggt cgggtaccatc 1500
cagcgcgga ccactgagtt cgctgactt cagagacgca atcaaaagcg tcttggtcaa 1560
ttgacccttc ccgcgcaaga tattggtcag gtacgggttg cggtgcttag ggttcttatt 1620
tgccgcaagg atggcaaatt ctgcgccacc aagcagggtg gttgttgatg gcgtgagcgg 1680
gaggagacg acgatgtggt cgagacccaa tgagagaaac tcgtgcagag aggttttaaa 1740
agtgccatgg tgccaggaat actggaagcg tcccgtcggc ttcgccggtg cccgggatga 1800
tggtaggtcc cgggtcacgg gcgggatttc ggaagtgggt ttttgggagg ctgtgtatgc 1860
gtagacgcta aaaacagaga tacggcaacc cgggcaacta taacagaagg attcacgagg 1920
actttcacta aaaagtgcnc gtgagtcaac ggctatatag aattaaaaga atattggtaa 1980
aagtaaaagg aatgaagaga aatagaaaga attaataaga aataagttat caatataaat 2040
gatattagta gggagg 2056

<210> 2301
<211> 1154
<212> DNA
<213> *Aspergillus nidulans*
<400> 2301

tccaggcggg tcagaagcag tctggcaagt ccccaaagat acttgatc ggtgctgtaa 60
gtacttcgtc tgcacttcac gacgtttctg acctatcat ttagctggg acgttggtggt 120
aagggtgctg tgcaattggc gaaggacgct ggcattcccg agtctgatat cattcagtgg 180
gatatggagg aaaccaagaa gggtttgcgc tatctaccat gtgtgacttc atgogctaac 240
agtgcctagg tggccctttc aaggagattg ttgaggatgc tgacatcttc gtgaactgca 300

ttacctgtc ttccaagatc cctcactgta agtcgacctt ggagaggatt tctgtcaaac 360
 gaccagaaaag tgcataaata ttgacaccta cctcacagtc gttaatgttg agagcctttc 420
 caccctagc cgtcgtttgt ctgtcatttg cgacgtgagc gctgatacgt aaggcaaatac 480
 ttcccaagtc ttctgccgta tccactaata ttgccaacag taccaacccc aacaacccaa 540
 ttctgtctca caacatcacc accacctttg acaagccac agtaccggtt actctgcccc 600
 atggcactca aggcacgcct ctcagtgtga tcagcattga ccacctcccg tcgcttctcc 660
 cgctgaaaag ctccgagatg tttagtgaag cgctgatgcc cagcttgctt cagctcaagg 720
 accgtgagaa cgctcgggtc tggaagcagg ccgaggatct gttcaaccag aagggtgcc 780
 ctctgcctca aacggcgtaa actcaaacgc aatgcatgtc aatacccggg gatagtgttg 840
 catgaagttt tgtaaaaaat aggtcatga tagaattggt taaacaaatc ccaagataat 900
 gaacatacgg atgcacctcg gtgtgattgt gtctgataca gtagctatta aacattctgc 960
 ctaccgtcta cccgtaagag cctgtctca ccgatacttt cgtgaccgtt cagttacctc 1020
 aacccatcgc caatgtttca tctcatttg aagtcacgcc gagatcttca aacccactt 1080
 gcatcattca tttatcagcg gccctcttta gaaagggcat caaggcaagc actcggagcc 1140
 atgaccagtc caca 1154

<210> 2302
 <211> 1770
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2302

ataccaattt tccaattcca agttaacatg gtaataatat tccaatataa cacaggggaa 60
 ggccttttac aagacattga aattccatca gagcttccat ggtttgctag aacctaacctc 120
 gggacaaccg gcaactccgtt cctgatacgg agccctcata ctagaaacac agaggagatg 180
 cttatctcga gcgctcccag tatactagag tagtttaata tgagtggctc atcatgagta 240
 ttttttgtga gctgtctatc atgagttgtc tccatgagca gtttcatgag tatttttctg 300
 gagtggctct cgtgagtggt tcttcgtgag tagtctggaa gcttactcag agtacggact 360
 cgtgtcgggt gtccgagcgc cttaccctgc ggttcttttc tctgggttta accgagcaca 420
 cctaacggac gacggagagg ctcagacact agattcgatg atcagcagcc tgctatctgg 480

```

cctactacga cttcgttagac tacggtattc aagtcgttgt gatttaccoc attttaagcc 540
gccagatcga agaattctaa cgtcttttca cgattagtgt tatgactata tttattaaca 600
ttattttatt ataattgtca tgggttttate ttgatttata tttatttttg atttttcttt 660
gggtgcattc gactactcat cctcccagtc gagtttcatg cagggtccgat gtggagttag 720
gcctctaattg cgggctcttc tgtccaaaaa cgccggtggg cccctgcagt gccgttgaac 780
gcctcccgaa cgggtctcggg ccaatgtccg ttctgggtcag actcccaagt tcccagcgc 840
cttgctcggg ataagaatct acgattgtac gaaccaaggg ctgccgccga gtcacgcacc 900
cgtatctact cgcacttagc cgtgctctgt accaattgaa catctttctt gtcgtattcg 960
ctctaaagtc ctcttacaat agtattgccg caccctgtgc tgactagaca acagtccac 1020
gctataccgt attcgggaag gaggtcacag tccgcctccg ccggttggtg gaaaatggtc 1080
aattctcttc cgtctcccag ccctggagct gttccaccgt ccaggccgct ggatcaggtc 1140
aagaccaaag ttggtcaacg atccttcaag cactccaggt tcatccagcc ctggctccag 1200
ctgttcctga atcctctcat caaacagccg gcacgcaaga ggtgtctttg gtgtccaatt 1260
cctggtgtct tgagagcggc tagcctcact ctcgttcagt gaggcccgaa tatgatctc 1320
gcttgactcg ctgcgcgaag ttgcaccat cctgtgagga cgtcaccttg ggccggctcc 1380
tcttggtctg ctgatgccgt agaaaccggc gcgctaaccg agcttctgcg ttagggcctt 1440
cctaggctcg cccgacgcct tttgagtcct gtctcgattt cggactctgt gtttggtgga 1500
tgcccgcca aagcgccact tagtcccga aggtcttcca catggtgtgc cacggtctcc 1560
atcgagcaa ctgacaattg acatgacagc tttcgatcag cccaactccc gtggtccagc 1620
acgagtcggg tgcagaccag acaccaggc gttcaaatta tcaggagaag ggctctggat 1680
aaccgggcaa gcgttcggt tctctctctc tgacgacttt tgattagtac actgccgat 1740
agtggggatg agcctaggat tgtgccccgg 1770

```

```

<210>      2303
<211>      1957
<212>      DNA
<213>      Aspergillus nidulans

<223>      unsure at all n locations
<400>      2303

```

tgaaatcggt ctgaaagggg ggggataacg catgtgtgct gtcatagagg gaacaacgta 60
 ttgaaactggg agctcctctg gccaaagaaat cagatggctg agtcagacat cgacgagatt 120
 ctagatgagg aagaagagct tattgcaaat cttgaaaagg aaatgcttcc gttgaccac 180
 aagacacttg agtggttgag gtctgaatgg atccgtatgc taaaagaaaa acacgacgaa 240
 cgacttgagg cgaagcgcaa aagagagcac aataactcca agggccctac ggggtgtaagt 300
 tcctcatatc catgttcgtg ataggcgtct gacaaggata ggaaccgtat caggttgact 360
 ataagaatga tacgttttgc caaatattca atacagaagt tgatttcgac gttgtccctt 420
 tggcaaattc catggctgag tacgtcatct ggctagagca tcagtacatt cgatctaaag 480
 acacatggga taccgcttgc gagggagaag cctgggtataa aagacggatg agttgggttg 540
 tggaactcat gcaagtcatg gaagttgctc caaaacact catcaagact atcaacaata 600
 agatcgaaac gataccatgt gaaagcgatg gccttgataa ggaagggtcta gtcagccact 660
 tcattggcttc tatacaggag acacgagagg ctaaaccaga tgtatagtac agttcaatac 720
 agctttgata tatttatcta gtcaggaaga tcttcgccat tccgagattc gactcggac 780
 ggatgcacct gagtaccatt atcagactag gcagctctat aaacctccaa gatgagcctt 840
 ggaagtctat gaggccgagt tatacgtcaa tgatatctag caacggcggc ggccactctg 900
 ccttggttaa tcacatcttc tcagtgttag gaaactggtc agaagagttc gacgactgtg 960
 aaaacatata catgaactta catcttggtc cctcgataag aatcaacaca atcgcagtga 1020
 accccaagga gatttccatc tcgttgaagg caaggtacga agcagagttg gcctggctta 1080
 cccctaattc cctcgcta at gggtatgcc cggacaatcc cctcgcaga tctcgaactg 1140
 gtcaaccaac ttcacaagtc ggtccatctg gtcactctca agagccactg agacacaggc 1200
 cagatggtea tcttcaaate ctccccagac caaaaacccc ggttgctcta ccacgaactc 1260
 cgtctcctgc ttataactcc tccgcacccc aacatcatta atcgcccgt ctacctcgac 1320
 aaaaaagag tctcctttgg cggtgaagcg cgtgttgctg gacttttgct ggagtatatc 1380
 ccgctggaac gttagccgct tgtctcaaga gcaccagaga tatccctttg gagacaaagg 1440
 tcaaattggac gtgccaacta acctccgcac cggaatatgt cgtctcttca ccggtgggac 1500
 actatccaga cctaaagctc gataatatcc tactcaagca ttctcctatg ggggaggggg 1560
 gatgggatac cgtcttgatc gacttcgagc agcaggatc atgggtgtgc tggaaccac 1620

cggagatcaa tcacgtcact ctcttctcta tctcgctacg cgaaaatcac ggtatatccc 1680
 acgccacgta gccgccgaat accaggctct attggataaa cattgccttc gtggcacaac 1740
 agcagcggcg gcagtagtgg tggcatcaac actagccttc tctcctcggg gtataacaag 1800
 acctggcggt cactgagtgt ggatgagcgt gaaagtgcaa tggttttcat gcttggccgt 1860
 gtgttatggg gtatatattga aggtgtgggc agtagcaccg gaggtaactc tcggactttc 1920
 ctgtaagntc tatcgactgc catcgccct tttttt 1957

<210> 2304
 <211> 2427
 <212> DNA
 <213> Aspergillus nidulans

 <223> unsure at all n locations
 <400> 2304

tccgcatcac taggccgaat attgtggcgc gctgacaggt tactatagcc gaacatcatg 60
 tacgatgttg agcaccggc gtataaggaa ctgggtaaaa taggcaagga aattacaacc 120
 aaggtaagc cgcgtgccgt tgtagtggtc tcggcgact ggcaagggtg tgatgatacg 180
 gttcaagtca atacggctga gatgacggag ttgatctacg agtacgtata cccgcccttc 240
 tctatgcgcy tcaactgaga ccagttgata ctcgtagttt ctatggattc cccagccact 300
 actacaagga gaagtacccc aatgttggtg gcaaggagat tgccaacaag gtgctcgacg 360
 cgcttcagca ggctgggac aaggccgagg gtgtcaagag gggattggac catggggttt 420
 gggcaagctt caagtgcggt aggtgccaga tccagcagga gccatgcgcy aatcgacaaa 480
 gctaatacga gcaaagcgtt tgagcctgaa tcaaaccncc ttaaagtgtc ccatcgtgca 540
 agtgtcaatg ttcgatacag aagaccctat gcagcactac cggctcggag aagcgggtgc 600
 taagctccgc gaggaaaaca tcctgatcat tgtgtctgga atggcagtcc acaatctgcy 660
 cgatttccgg ttcactttta atgatgctcg gcccttgccg tataccgtta gctttgacga 720
 ggcgctcaaa gacgcagcta ccaagcccc ggccgagagg cctcaggcgt tggttgatct 780
 gctgaaacgg ggggatgcgc gacaggcgca cccgtatttt gaccaccttc tccccattca 840
 cgtgggcgct ggagctgcgg gggaggatcg gggcgagagg ttatggacct tgaaggaagg 900
 gagcatgagt tgggcacagt atagatttgg tgaagtggcg aatgccagcy cgctgtagcy 960
 attagccgat agtaatgaat caagcaagtt caaccgagta aagttcttgt gagccaacgt 1020

ttatttggat ataggtacag tgttgacagc cgggatgcgg tacatgacat aaaacgacgc 1080
 gccagagtct atgaggattc cttcaccaat tgcttgacct tttcttcgat ctgctgggtca 1140
 gagagacctg atttcgatta gcgatgtccg tacctcggat ggaggggtaa cataccgttc 1200
 agtgattcaa ctttctcctt tccgagcgt gaaatgcaaa ccacagatta gaaatttgcc 1260
 ctccaaaagt gaagtaatat atgtattata tttaaacgta ccgtatcggg cgtagactcg 1320
 cggcagagtg cgggcagcct cacggatgag gatgggagtg tgcggttgt gcttcttcat 1380
 ggtgggatag gcgcggttga taaacaacct ggggaatata gtcagtcta tttcttcttc 1440
 cggatgatccc gcaatcgaag attgactcac cttgtcgccg cgctttgctc ggaggtctgg 1500
 cacaaaagga accgcagctc cttgagacct tttgtgaaga cgtacttgga ggacattgtg 1560
 acgagcgatc tgtgtaaacg gcgattggag aatcacagta gttcaacggc tagacgatca 1620
 atgccaatca tgcactgcaa ttgagaagct gtcgacgtcg ggctagagat gaggtcgccg 1680
 gcgttgtcgt tttgcactgg accaatctgg tcaagcggga tgtcacaccg cttaccttag 1740
 ccggaagtag ctgcattgct ctgcgccaac gtgactaggc cgacgtcggc tctgactgat 1800
 aaagactcat tcaggtgttg ttgtccatcc tcctctccac tttttataca cgatgtcgtc 1860
 gtctcgcgtt ggatttcgct tttccagaa ctcccgcgcg gccttgcgca cggccttccg 1920
 ccggcctggt gccaggac gccgctttca gacttccgat gctgcgtcag agcaacaaag 1980
 cactttccag cgtctatgga acagccccgt cgggtgtaaag accgttcaact tctggtatgt 2040
 ctagcatctg aggaattgga tctttcaagg ggtgttttgt gctaattgtag ccgccgcagg 2100
 gctcctgtta tgaaagtacc ataaacccgc cggttgtccc agttttcaca attgagagcc 2160
 attggacttt gccccggagt attccccct tttaaagcgg gattctaccg atggaatcag 2220
 acattctacc aatttctgat atgggctctc gcattgcgtt ttttgacttt actaccgcc 2280
 naanntnntn annaaaagg ctttatggcc cccgcccccc ttttttgggg ttgtattagc 2340
 ctaaaatacc tgtgtgttcc ccccggtgtt aataccgta ataaaccccc ctcttaaaat 2400
 tcttgggatg ggccctttcc cctccc 2427

<210> 2305
 <211> 2471
 <212> DNA
 <213> *Aspergillus nidulans*

<400>

2305

gacagcttca acatgcttcg agtccaaga gaatagcaca gttcggacga tggcgctggt 60
tggcgtagcg cgccgaatt aggcgtatct attctcgact gttgcggcgg gggccggaga 120
gggctcgta gggtcgcgta cgcaggatcg tgatgctggt gagacgattg aacgaccgat 180
taggatccag aaggacgttg ttgttgagca gagcttcgag tatgtaaaat aactgatggg 240
agtctcattt gtgtgttcac tgtatttgta ctagttcaag gtaagacggt aatgctagat 300
gtctcactca tagttgtggt caagggccca gtgtgctggt cataaacgta ataaacagct 360
aataggcccg tatacgacca aggacttctg tagagaaatg taagagaatg aggtgcgagt 420
gtattgcagc tcccacgct ctctcgctgg gaacctaatg cccgtactat ctgcacaagt 480
aaatatgtcc atgtctgcag cctcgttgct aagacgcgaa agaacacagc tcaggctgcg 540
gctgatagta tcaactcaca tgactaatct taactctctt tccctagagc tactgcttgg 600
cagaaaagtt aatagagatt ctgaggttag cgaggttaca ggccgctcgat ctattgagat 660
gcgctcggtc aagaagtgcc agtctcaaga acctttgcga acaaatgag acttttgtgc 720
aggcatgctg ttcatagacc ttgtgattgc caatccgttc ttcacgatcg ttgactggca 780
cagtcaggcc gttgcacctg ccaagtatac atactagcgt ctaaaagccg ctctgttcca 840
gactgcaaag cgcattggag gaaactcagg ctttaggccg gccagatgag aggttaggcc 900
atggcattgg ggggtgaatcg gatgtgtcgt caaagccgct tgcaagctat tacataccac 960
tggatattta cacaaatgtg tttcaccatc tcaaattcgc caggctcaag ctaatctgct 1020
tgtctggact gtgcaggaaa taggttttca ttgggcagcc ctaaaggatg gaaggtttta 1080
tacagacgtg gtacttcgca gctaacctca tgcacactga tcgcttctcc agttccgcta 1140
gccgcagatg actctggcac cgctgattgg cgttatccca aaattgatct gaatcataac 1200
agagacgcgg acgaggatgg ttacattttg ttcctagagt tcagggtgtg ctatctctcg 1260
gcggattgtg gaataatatt gcgtagtaca ttatggttac catacattcc tgggagactt 1320
atctcatctg ctcggtgcgg aggtgtcttg aacacctaag gcaatgtttg tctgcgttgc 1380
ttgtttgact gcttgtcgta tatgctcctt tcatcacggt tccttgtcca agatcaatcc 1440
taggagctct gccgtattgg cctggtcaac ttattaccg ttgataataa tctgtccac 1500
accgtgctgc gtttagacca tgttaggcgc atgagtcccc tgatgcatga attccgtttc 1560

ctctcctgca agcgaggatc caatctactc aacctatgct tctgtgcagg ggatatcgtc 1620
 ttccctatatt ttccagatgt cttttgcggc gcggttggtt tggcactgaa aatatttatg 1680
 tcggcacctg ggcagttgac tggcactcta cgggtgtccga gtagataaac ccaaatacga 1740
 tcggaggaag cgaggatacc cgtgtaaggc cagaattctc tagtagacag acctcagtct 1800
 gaaacccgcc aaagcagaca ctagcatgct ggttccccgt aaaagctgcg aaaccagcgt 1860
 ctgcgtatgt tgggatgcct ttggcccgca ggcgggcgtc aaggtgcttg taaccagcag 1920
 gctgtctata taggtgcgat ccaggcagat caggccacct ggactgatta tagtgacctc 1980
 ttggtctaatt ttgggagtta ttcttgcta gacatataat ctctcacact ggcttcctaa 2040
 ccagcaatat tactaatctc atcaaggctc ttatcagcct ccttggctac tatctcctgc 2100
 tectgttttg cctgcctgga gattattcag gaactagcta tataggtgcc aaaataaaaag 2160
 gatttttgga gcaatacccc gatgattaga agtttttagta atgcgggcat gtatgccagt 2220
 atcgctatcc tattcttaaa accttttata gctgcttggt ggaccgctcc tgaccaatat 2280
 agatactatg tccttattaa aacaggacat ggtgtgccag caccttttta gagatagggtg 2340
 ttagggatct actttgtcag ggcagatcat cttgttaact tgataaggat accgctacca 2400
 agaaaagccg ataatgggga actaattggt gaatcttggg gaaatacga tagagcccag 2460
 aaacagagtc a 2471

<210> 2306
 <211> 879
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2306

caaggatttc cagtaagtag gcaaataaat agacgctgca atcgcatgcc cgacaattca 60
 tacaccaacc atgggaaggg agccgcagct tggatgatgt ggcaagtga atcattcaat 120
 catcagtctt cgagatttaa ggaacggctg tagcaggtgc atcgtagagg gcgttgccag 180
 tgcccgtggc gccatggccg tgcttctcta caacgggatt ggcgtgctcc tgacggtagg 240
 accagagggg gtagagtctg aggagcatgc caaagaagg gaagatgctg cggcattatt 300
 agttatgaga gaacgaaaag ggtgcaaagg aacatacaat gcgaggaaga tgaaggactc 360
 gtttgctttc ttctgctgc agttcatgta gggaggagcg ttcaagtaac agttgtgcca 420

gttgtagtct tgcgcggcga agatgaatgc cgtgagccag cttttgaaac gttagttagc 480
 atgcacgttg tcaaggacga atgacagcta aggacgtaca gataagagaa gacgacatca 540
 atgaagaaga caaatcggct cagcatgttg ggcataaacg gggagaggaa agccgggagg 600
 aagaagacaa ccgagagaa agactgtatt gcattagctt tgaaatcctt caccagatag 660
 cggggggacg cacaatgact tcctggtaaa tgatatgctg ccacgggggc cctttgctaa 720
 tgaagtagga tgttattccc atcacatca cagcactagc ccattggaga gtcgggatca 780
 agagcatgac cggcctagcg agagcttgac gaggcattgt gactgcttga tatgaaatag 840
 tatggactgg aagtatagat tgggagtatg gctaagtat 879

<210> 2307
 <211> 1267
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2307

tttgtccaac cagacaacgt atcggggacc gattcaatct ctctggccgc atctttcgggt 60
 cataacgaat aagcgtactc cacagggtc atctcggcgg accgtcttat tgtccgtccc 120
 agtataatgc caaccccgca ctacaggagc aataagcgga tgctgccact ccggtgagcc 180
 ggtagagaag ccgtcaaacg ctcaatttgc gagcgataga tttcactctg ggagtttgac 240
 accaaagggtg ccgagggcga tcacccggat gacaataaat ctgatatttc tctcaagaat 300
 atgctcacca gcttgatatc gatgaacgaa cgatagcgat aacttcttct gcctgttgta 360
 ccggagtatt gcgagtatcg caaccggtct cctagcggct tcggtgcgat ctgcggaatg 420
 gctgtggaat tttgttcaac gagcgtggtt ttccatccga tagttttctt tctagatttt 480
 cgatccaaag cgaaagtata tatcccagga catccctcga tagaatatct attcgaacga 540
 ttgggtctcg agacagcgct tcctgttaga aggtggcggg tgtaaacagg cgagggctca 600
 aggcacagcc ttcaggggca tggccggacg tctcaaggag gtttcaaaaa acgatagaaa 660
 ggaacgacga gtttacggat agagaagtga gggaaatttg agaagaagaa aagaagggtg 720
 gcacagaaga agacaaaaaa gccaccgagg aggccttgaa gtgtaaaagg gtttgaactt 780
 tgcggagaaa gtaagatagc gatcaacgat cggcgatgga gcaggcatgc caactgcgcg 840
 tccaataat aagcgcccga ggcaggggta ttttatcttt ttcgtatcat tacatgtaga 900

atatatggaa ctgcactcga gatattctta gcggtatctt gtattaccga tccgagatac 960
 tcgaaggtcc agtttgaacg ggacagcagt tcaactacgta tctcctgtcg atcaacggtg 1020
 gaaattttat ggtaagaata gcttcgagtg ctgagcctgt caaacttgte aggagatata 1080
 gataacttga agaactagtt tgggctttgt tatgggtggtg ctttgcgag gcacgcctg 1140
 gacagtaatc acagggagag catcgcaact tcagcgtcgc aagtgcata caaagcgctt 1200
 gaatggcagg tgccttggca taacaccatc atgactctaa ccatgtacta aaggaggcac 1260
 gtttctg 1267

<210> 2308
 <211> 1323
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2308
 ttcaaactcg gtgttccatg cagcatcgtc tggccatcct tctcgtcgtt gactccacga 60
 agaacatgga agccgagaat ttttcgctag acgaatagat accaagcaac catggggccc 120
 taacggtttc ttgggttggg cccttgagtt aaccgatact tttggataat ttcaaggaac 180
 tcttctattc tggagatgat aagatccact attaccacaa aaggaaaatc ttcaggctca 240
 gtcgcccac aaataggaga ctatagccag acttattaag caggcgggtga agaagagggc 300
 ttttgggaag tgetcacttg ttgagtcgga ccgtggccga actccgattt tagggaccat 360
 tttttctgct tctattggaa tccccacaca ccggtgtctt atcggccctg aattcagggc 420
 gtctttcctg ggaggaacgt ttgtcgacct gttggcgcta ttccagtttc tctcccgtg 480
 attgactcat cgcgccttt acgtacctcc ataaattttt ttgtgtccct cgcctctg 540
 ctgctttcac cgtcctctc tcttgactc acccaccatc tcaagccaat ttttcaattc 600
 cctccatcct accccctccc tcagtcttgg gcgtgcggca gaaggcggga cgtcggtagg 660
 gatttgtcta ggccgagcga gaaggaaaca gtgcccttgg agctatagcg gtgcgagtg 720
 ccaggccttc gtcgccgagt ctaccccgag ggctgagcgt atgacagttc aatggactgc 780
 atcctcttcg ctttactctc tttcacctac ctgtcaaata gtgcgcgccg caatggttct 840
 tgctgctcgg tgcgggcagg ctacgtcctc cctcctgcgt caacgatgtc tcgctgagac 900
 ccgtcgtctt gcaactggcat tgcggtcttt caggtccccg agcaccaccc gttccacagc 960

atcggcactt cgattgcaac agaagactcc ttcgcatgg cggtcgcagc agttgcgcaa 1020
 cttctccagc gcgctctgcc gtctagctgc cgagtcgtcc tctgtcggcg acagtctatt 1080
 ctctagcgga attgtcaacc ctggtgctaa cttggttgac gtcaagaagg tgctggttat 1140
 cggtagtggt ggtctgagca ttggccaggc tggagagttc gattactctg gtaggtcaat 1200
 gagtctgtg gtttattcta gtagaggcag cgcagcctgt tgtgtcgatc aggaggagga 1260
 ccagttgcaa gcgtgaaggg gtctgccaac atggtctatg gacgtggttg ctgatacttg 1320
 tgc 1323

<210> 2309
 <211> 3044
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2309

ctttccatt ccagctgaca cgaccctccg cgtcatcaaa gctcaagtgc cagccgcttt 60
 cccaggcaga gcttgaatc aacgcaccat atcaaccctt ccacactgac cagagagtta 120
 gtctgtttac ttactctgaa acgggtgagg cggatggctc aaccactgcg acgccaggag 180
 gccagtgggt atttggcgga agtatgggca tgtccaagct acatgttcgc cgtgtcagca 240
 tcagtagcga ggatgaaggt gacgttgcta tgcataaact tcaacagggg ccaggtggag 300
 gtatcgtgaa tacgatcagc atgggaaaca gcactgggaa cgtggaggaa gtggtaatca 360
 ccacacgacg gaagaagaaa cattcgtcac cgttccaggc tggcggcgag gatggattct 420
 tcgaagacga ctgtgaggtt ttggactttg ccgttgaccg ggtctgatcc ttaaccacag 480
 tgtatgcata tatcactcgc tgaggtggca ttggttctac gcaattttag acacttatat 540
 tggttggcgt tggggttggt tttttattat ggtctccttt ttatctaaac gtcattccatc 600
 gctgttcaca tggaatttca tactctaata tgcacgacag cgctgtttcg ttcaacactg 660
 gcctgacgag ctctacattc attttgtttt ctttggtgcg catgttatct acatacctgt 720
 gagaatagac gagaatagtc cagcgaatct cagttagaag aaatatcccc aatctcctcc 780
 tcccaccacc ttcgaaattc caccagcctc tccgtcctgg acctagccat cttcttcctt 840
 gtctccgtct tcatcattcc ctccaatctt tccaatttct cgccaaaatg ctttatcgaa 900

ttctccattt cccactcctc accctccttt aacatatccc ttcctttcgc acccaagaac 960
 gtaaagcacc gtccgatccc aatagcgcgc agcgcatcca gccgatctgc atcctgcaca 1020
 atcgccagct caaccagccc ttcatactta atcaaccgcc ttatagctga cgggtcttta 1080
 cactccgtcg tatacgagac atgcgaaaca atcgtttgta cgcgctgggc cagggctgca 1140
 tcagcgccat gcttgaggag gatatactcg actagtttgt gcggggggat tgtatttgcg 1200
 tcttgctctg aatcttgggg aagatacttc ctgtcgctga tatcgctgag tagggccgca 1260
 aggtggacgg tgagtttgct tatgggcttg ggcgttttgg cctcttcaga ctggaggatt 1320
 ggcattgcaa gattcacaac gcgattgata tgcgctggat tatggcttgg atcgtaatct 1380
 ttcattgcatt tcgttacaaa agctgaaatt ggtgcatga gcggatcctc agacatgggt 1440
 ctaattcttg aatgtcagct tccttgcccg cacagatggc tacttaagt tagatgggtta 1500
 tttacctga ttttctctgt atctatgtac tgaatcatgc ataagcatgc ggttgctaaa 1560
 agacgcgttg cggcttcaat ttgacgcgtc gggagttgga ccgggccagt cagcactgga 1620
 cctccacagc aacaggctcc aaagagccag gcctagggtta cagcacagcg ggtggttccg 1680
 ctgctggatg actggttcaa ggttcaagtt ctaagcacc tttaaagcta gaaattcagc 1740
 aatcaatata ttgtactata tgtgctaagc acgcgaattc taagctactg tacacgaata 1800
 acagtaaata actgttggtc aagacatttt agagaaagaa atgacagcct gatgttcatt 1860
 ccagtctcca cactccacag atctcgtacc cgggcgtcag gtggtgatta tttatgggcc 1920
 caccggccca cagaaacaag tcgaagagca gcgatcggca tcccagtcta ttctcgagta 1980
 cgaagtatgc gaaatatcca ggggattcta tctgattctg cgacgttgta acttgtaaact 2040
 agacttgga gtttgcgaaa aacagaaagg gagaagcaag gactacaggg ttaattaact 2100
 caattattat ggtatcgatc agtgattagt agaatagaga gtagaagtaa agactatgta 2160
 gataaccatc agacaacgtt ccaatccatc caaaccatta atgccttgca tggcccggtga 2220
 atcgtgcaat cagcaccgca cttcatacca gactgaattg cttcggcaag gcccttacag 2280
 agcccaagcg gccatgagga gacctgccag accagcagca gagacaccga gcctggcggc 2340
 agcgttagtg ccagagggct cgtcgccccg agccggtcgc ggttgccctc gtcgccgttg 2400
 gtgctgggtg cgctcgaatc taaaaatagg tcaggacttg tggcgggaag agacacgggtg 2460
 ccaaaagaga gcttaccatc cgagtcggag tcatcagtgc tgtcagcgtc gacacccgag 2520

ctagtggctcg tggcggagtc cgagccagtt gagctgccag tggcagcgt agcgacggac 2580
acagcgctcg ggaagccagt gctgctgatg cagcaagcct ggaactcaga gtacgaatag 2640
atgatctgtc tgaanagtac cctgtcacac tgagataaca gggtcgtatt gacaggctgt 2700
agtcctaggg atgcacgctt tacatggggac atcatatccg tcatggacaa ctgcgataca 2760
ttaccgccgg taccaagtaa atgacaggcc aacacaaacc ccaaattagt caattaccgc 2820
atatattttc aaaaaccccc aaagccgtaa aagcaccgga aaaccgggac ctggggtaga 2880
ccaaaccttt ttatgcaccg gagccataga ttggggatga cttttttccc aaaggttgaa 2940
agggaaaaaa tacgatcctt ttttttcccc ccccctaga attttttagt atagaaaaac 3000
ccctacacgg tataaccccc cacacctttt caattataaa taaa 3044

<210> 2310
<211> 1914
<212> DNA
<213> *Aspergillus nidulans*
<400> 2310

ctcttcctct tcagcactat cttgcacctg cggcgtgcaa tcgagttctt gtcggccgat 60
aaaggcaggt gtccatgtgg cactgtttgg cacggaaagg ttatgctctt gatctggcag 120
agaatctccc ccagtgcagg cagggcagca ctcgaccgca tcttactcta cgtatgaacg 180
ccaatacctc gagccatgct cattgttcat gccgcaaagc tgggccgttg ggtgagaatt 240
tgaattagcg ttccaaatgc tcgagcttgc tcggccgcct cgccgtctgg gctgaaagag 300
ttgcccctcc aaagggaatc gtttcgagta atagtcttca atgacgccta gatcgattcg 360
tagccattac gctgatctga cctctgttct tcttgagctt ggcctcttct taacctcatc 420
catggcgaag caaggccctg aaccttagta tgatgggtgct cgtctcggga aaagactttt 480
gcagctgggt taacacctga tatgcccata acgagagact atggatcaaa gatagttgat 540
gatactgttt cggcgcggtt tctgtccag agtcttatgc gttggcaaca ctccggaatc 600
tagggctgat ctctttgcgg tatttctgta caatagcttt agtccgatca gtaagatggc 660
tgagcagggg acttctttcg cggcccttga gtcgaccatc atcgtagcac agcttttcgt 720
gcttcatggg gcagtggccc aggttgggca atgtcaggtt gaatgggaag gagctgcaga 780
gaagggcgcg cgtagttga aattccctca atgacacaaa accttgggtga agccgaaatg 840

ctccgctggg tagttcttgc ttccgctagg tagttgcgcg ctgtaagagt ctgagttttc 900
 ggcgttgttc ttcagcatat ccgctggggg atccttggtta taaggaagat tttaacgtcc 960
 ttggagtggc ggaactctct tccagaccgc cgtcaacgtt agattgagat ggaagatggg 1020
 cagaaacacg cagcagcagg accataatac tcatttagaa acttttcata aaggatcatga 1080
 tcattcttgc atttgtctaa acccagagtg cacttcgtcc ttgacaaata gatgggatca 1140
 acaatgaaag gcatatgcga ataacggcac ttggcgggtc gtctatatcg tggcatctgg 1200
 tcttccgac accatccaag tcgcttaaac aaaggtaaag tctgagtgc aagcagcttt 1260
 tgaggattgg acgatgggtc aacaccatt gctcatctaa tactctaagt ctggtattct 1320
 gcatcaacgc gcacaggcag caacgtgaca agcaatagcc aagaaagaag agaagatggc 1380
 caagcccaca cccctcacag ctaagaggca tgcgccaaat tatctttgag gttgggtctga 1440
 ccgatatttg tccgtggaga taaatgccat tcgggcagag acaccaagaa catcgagacg 1500
 tgactgggtg cagcctcatt tattagagag atttgatgtg agaaacagtc agatgactgt 1560
 tgtcagatct acgaagtgtg ctacgaagtg aagaacatag atggcaatga gtttggcctt 1620
 aaagcttggc tccgatctaa ttttccgctt tcgctgacc tctttcacga aaggctttcc 1680
 atagcttctc gaaattgatg agcccctaaa tgaaccaatg aactacacaa cgaattttcg 1740
 cgtaggagtg cagggtttgg gagccggtgg gggctcggtc tgtttgatac aggtaaggtc 1800
 agactgaatc tcagtttgag cgtaacgacg gtggaaacaa cgtgactttt cagtcttata 1860
 agggcttcga attcagcttc aaggctgggg ttccgattaa cgcaccgctg gtat 1914

<210> 2311
 <211> 2298
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2311

ggcatttacg gatacataag caaccaaaca ggccaggccg ataatgctta cgaagggaat 60
 acgtacaagg gactgcgatt ggtctcagat gactacagcc tgtactatgc tgtgtggtgc 120
 aacaacgaaa aggagttcta taatcttaag gtataatacc ccgactgctc tgattgtttg 180
 gagctgctca cacacgcaca ggatgatcct taccaaacag tcaatctggc tgcagatatt 240
 tcaaaacatg agtcctaccg catcgccaac agacctctac ctccagatatt ccagcgagca 300

aatgccctca tgatggtgct aaagtccgtg actggggatt catgccgtca tccttgggtc 360
cagctgcac ccaacggcga cgtgcacagt ctcccgatg ctctcgacaa gtcctacgac 420
acgttctatg caaatcagcc cagggtttcc ttctctgaat gcagcctcgg ataccatctc 480
tgggctgaag gaccgcaaaa gttcaacgtt tacaagaagg gcagccgcga tgttaacgat 540
ggccaagttg gtgatgagga ctgtcaacc tccgctttga acctttcgga catgtagggtg 600
ccccagcaaa caagctaccc gagatgtaat aaactgatag gtcacatcaagt ggcactacgg 660
ttgcgggcac ggctcaaca gtcatgtaca tactcttcat gagcctgtaa ataagtacga 720
aaggcactcc tgccacctta atatcaaagt cggtcacttg tagattgaca atcttcccaa 780
ctaatagaca aagtggaacc atttcctcaa ttactaatg ttgaggcaca ataaagactg 840
ttattcattg attgtatcct cgcgtacatt ccagccttga acgggacatc cgatcgacgg 900
actactcccg aaccccgacc acggatgctc cgtcactcca tgacacgctt caatctagag 960
gcataaaagc ttctgtctatt tcatcgagaa aatacggtta aatttccctt tgctaaaaag 1020
caagatacaa acgcatcatc cagtactct aagatatcaa gctattgtca agtcacgctc 1080
cttgacgctc cacaatgtcc gagccaaccg ccacacagaa aatccaccac atcaaccctt 1140
cagatctaga gagcttcgtc caccaaactt taactgcaa taatgtaccc ccagcacacg 1200
ccaccatcgt cgcgcttgc cttgtgcaag ccgatcttcg cggcgtcgac acccacggct 1260
caaaccgcat tccctcatat atgcaacgca tccgccagaa cgtcctcgac ccagcggcat 1320
cacctgaaat caccxaaatc acaccattg cagccctggt cgatggtaaa aacacatttg 1380
gctttgtgtc agcgcacatg ggtatgaagc gcgctattga aatggcgaac gagttcggac 1440
tcggtcttgt ctcggtcaaa cactccaatc atttcggcat gtctgcttgg cttgttcaac 1500
aggctattga tgcgggaaat atgtccctcg tcttcaccaa ctcttcgccc gctttacccg 1560
tctggggcgg caaggaaaag cttatggcg tgtcccaat tgcacgggc gctccagcag 1620
gcaaagaacg ccccttcac cttgacatgg ctccatccgt tgcagcgcg ggcaaaatct 1680
acaaggcgct ccgcagaggc gagaatatcc caacagactg ggctctggac cgtgatggaa 1740
atatcaccga cgatccggcg cgcgactgg aaggcgtaat gcttcccatg gtcggggccga 1800
cagggtctgc ccttgcggtg atgatggacg cttttagagg gcgcttttgg tcctagtatt 1860
ctgcgtgtca cttttccctg ggctttccga ccaggtaaac cggcgtgtct cttctcactc 1920

tcttcggact tcacaccgga aactcttcgg ggcctgcaa ttcttatccg gcccttcccc 1980
 cttctttctat tcaccccttt ctctttcttc tattcttctt cccccctctt catcttctatt 2040
 ctctcttttc cctttctcaa tcttctatct ctctttctgt ccttcctttc attctttcac 2100
 cttctttctt tccctctctt ctgtcctccc tctccttaca atcatcctca cccctctcat 2160
 tctatacctc gcattctttt tcttccccc tcttctagtt cactcatccc tgctattcac 2220
 acttctttct acaccttttc ctttctctc tctcttctt ctctttctct ttcattcccc 2280
 ctctttctct ctcactat 2298

<210> 2312
 <211> 2389
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2312

ccgataatac gacgacttat tagtgatcct cctttcgacc tcttgaggaa cacctcggct 60
 gcttggcgct gccactttta ttgccctgct ctttgagtat cgtacttcgt attttatcac 120
 tgactccaac cggtaatttc tagatccttt ggaccatcca ttatatcagc cgcgtcgcca 180
 acctaaccgc acttggtagg tcagcacagg agcgtacgct gaacgctaga agtacagagt 240
 acagtaacct gctcgtccag ctccgccagc cgtcgtctgt tccctcgtct gttctgcgcc 300
 gtcccgagct gtaatttagg caccaactgc aaatggccag tcaatgcctt gcaggaaaca 360
 gtcgttcgaa cgaaggaaaa acgcaaaaaa agcctctctc aagaaagact tcttaacggg 420
 agtttcgaat gaatccagct gtcagttcgg tcggttggat tacatgcttt caaaaccgct 480
 aaccgcgact gatctatgct catttccgcg ataccatgaa atcgaactgc gattcgacga 540
 ccaccttaca acttacaccc actttgcaag tactatcatt cttagctgac gttcgcactt 600
 ggctcgcaat ttgcattcgt gaatcgtcga atttatagaa actggtgata tacctagatc 660
 acagaggatg gggcttctgg cgaatgctt gtccatggca ctctgcaatg ctgcctcagt 720
 gcatatatat tacgtttacg agtaccctgc actcgcattc attgtcctaa gcaccgctga 780
 agccttcaga taccaggata tcttgacaac atctgcgaac tttggaacga atcgcagttc 840
 ggtcgcagat ggtttaatat ggaatatgat gactgcctg gccattaatt cccgaacgta 900
 taactgtatc ggcgccagat acatagacga cttacagttt ataccttga ccagacgatg 960

aacgcggtcg ttcacaatat ccaaccagga tctcgacagc tgaagctggt tggagctatt 1020
ttgccctttc tggacaccac gcgacacggt caggtccacg gttccgcggt ttacgaaaca 1080
agatacaacc ttgttgcgga acatccccct tagcgggacaa taaatcaaga tcagtttagat 1140
catcgttctg cttcagtcaa acttcagaag aggctaacgt ggctgaccgg ttacctgtct 1200
cgctgatctc aagaatccca ctgtaccact gacttcacga ccaacctcca tacataatac 1260
tgtagcgaca gtagtccaga ccatcgttat tgaacttaaa tgctattcca ccttggttag 1320
cccactattg caaataattc atgtgcttta ttcttaccgg gaggttgctg aactcttggc 1380
cttcttgct ttgttgatct caaccccagc agcagctcaa ccctgaatcc actccgcggg 1440
aaattgctag ctttactacc atgtctgata gtgaagttct cggccccaga agaaccggca 1500
cggcaactgc tagtcatgac ttcaacggca ttgcctgatt ccgctcgctg aggataccgc 1560
ggaatatccc cgggtcaac ctctgctgta aaggggggct tactcatcac atactactga 1620
actaagggcg caggggcaac aatcaaacat tcgaaaggga caaggatgtc ccaagcctcc 1680
aagattaatt tccagttctg gcgcgttagt gactcgtatt tgtggatgat gtgagactgg 1740
gacatgtcag gctagttagc acgaaccgaa cgacgaacgc gacgccagcc attccagcca 1800
ttattgcatg atcgcaagcc ttctgctgca ggggttgat atcaaacgaa ggtcgccctg 1860
cgatgtcgcg actgtccctg cagtgcgcgg caatggccca accctagcca tactattgct 1920
cctagtcttc cagtgatcca ttgcaaccgc tcttacgctg tgcttggtga ctttgacagt 1980
tgtactgctg acggagtacc ccattctcgc ggtttaattg acttgagaat aggccgatgt 2040
ctattctata ttctatattt gggttgagaa accaatgcct gtgctacttg tccttggtcc 2100
gttgggtacct aaatacttgc aaggatagcg gacgttcggt ttgtgaatcc tcatttgcca 2160
attcgaaact caaatacccc gtccgatatc gatactgtat ctactgtata tacgtatgac 2220
cggctacacc gcgttcgggc ttggttgta agtacatata accaaccac tgccgatcct 2280
gaagatacta ccattcgaac tccgccaaga tctctgcga aatttcaatg caattttgac 2340
gtagacgaaa ctgcgttctc aattgccgat atctccgtat acgaacgcc 2389

<210> 2313
<211> 9032
<212> DNA
<213> *Aspergillus nidulans*

<400> 2313

agcatcetta caatcacgtt agaccattgc atgaactggt ttctgaatta tcgcatcgag 60
cgcagcgcgt agcgtctggg attgcgacgg caccccaagg ctccggtcgg ggcttcaacc 120
cgcacactcc actgcggggc tatgtactcg gctacgccag tgtgccttgc cagtccatgc 180
cgataataac ctgatcccg taacgaacgg tataatgatg cggtacgcgt ttaaacccta 240
taaagtaaga atatctcaag atcgggtccat ggatcgtata ttttaattcg gttggcgggg 300
tttcgaggtc atgatgatgg ttcccaacac cgaccagtag tggccgcgca ccgccgcgac 360
cttgaagcc agcgtctggg gggcgtgcaa gccagggccc tagttcgctt agtagttcgg 420
tgtgtgcgag acgactgcga ggccagccca gggatcggcc atgggtagcg gcagtgtctc 480
ctgcggcctt cgcgtagta gtaggccttg cagggtctga aagctgagga agtgggtggg 540
ctgcgcttct cgggcacgaa ggcacagtgt ccaggttttg tgcagcttca gcctttgagg 600
tatttagtgg acaccttgcc cccttttagc gcgcaaccct gcgaaaaaat tcttctccct 660
tctcgcccc cccttcaccc caaaccgcc agaaccgcc aaaaggctcc ccttcggttt 720
tgtttttggg cttgcttccc ttccctccct tagctaccct cttctccctc caactagcat 780
accattcct cgcgccacaa ccggcacctc ggttcaatat gcctaaaaac gattcaaaga 840
ccgtcacaat cgatgtggag gaggctacta agactcgtga cagtgttaagt cttgtcttat 900
ctgccttttc ggtttgattt gcgttttcga ggcgctcgcg cgccgcgtct gtaaacaatg 960
aagctgtcgc ggcacccggg cggcgactcc cccgttccag ctgggcaacg ctattgttct 1020
ctttgtgttt attttcattg ccccataaca tcatctgggt aatttggccc caacatcaac 1080
ttgcaacaat atacaccaat aatcgcgaa ctatttcgca tcttttgtct cgctcttggt 1140
tcgcgcaatt aaaaaagtgc atcatccaat tcagcgccgt tgctacagcc agctcaaate 1200
gcttgctgca cgtcgtcttt ttgtcttgtc acctcttcgc tttcgcatgg ctttgcgcg 1260
cggactgtgg actcgtgcta atatgcgaac agtttctcgc taaacttgcg cagctccagt 1320
ctctcacttt tgagctgtcg cgcgcataca tcaaccacac cagtgcgggtg cttggtcagg 1380
ataacgcaa tgtagatatc tcggcgatca ccaacaccct cgccgccagt cttcgggaca 1440
ctggcgact cgctgcagcc ggcactggtt ccggcgccga gtctggcgag aagaagaagc 1500
gtaagcgtcg cgctgactct aacgctccga agcgcacctt gaccccatte ttcctgtaca 1560

tgcatacaca cggggcacgc attgctgaag agctgggccc cgatgcgaag ccaaaggatg 1620
 tctcaaacga aggtaccaga cgctgggccc aaatgcccga ctgcgaaaag gaggtatgtg 1680
 tttgccctct gaactgtgtc tctagatgac tgttgcttac gtgtgggttag gtctggaaga 1740
 aactctatgc ggacaatctt gcggcgtacc gcgagaaggt tgctgcttat aaggcgggtc 1800
 ttccttttga tcgggatgac aatgataagg cagccgacca actacaccta gacgtcgcgc 1860
 ccgccgaagc atcggatgag gaggaggaag aagaagagga tgagcatgga gaggaagaag 1920
 aggaagagga ggaggagtgc cctgagcctg ctaaggaacc cactccccct cctcccaagc 1980
 gtcgccgtag cgagggtgaag ccatccaagg atgtctcttc tctgtcgtt gagaagaagg 2040
 gccgaaacga gtcgccggag aagaagaggc gcggggcggc taagaaggac aaggaggagc 2100
 cgcgcaagtc tcttgaggag gagtcgaagc gctcgaagaa gaagcgcaag agcgacgtcg 2160
 gtggcgatga cgagtaaatt ggttttcagc gcagaggata gtagttacca ggggctatct 2220
 gtatagcaat attacggagt tggacttggg ttttgtttcg ctgctgattc ctgtacttag 2280
 ctttactctt tgttttagt acattcctat tcgcgaagag aactggtttg cgtcgcaact 2340
 cacaatcctt gcaaggcgac cattctactt caagtatctc ccgatatata tgtttgtcaa 2400
 tgggatgaag catccgctgt cttcataggc cggaatgggt ccttatcagt tgaagcgtga 2460
 ccttatctcc ggcaacccca ccatacaagc accaacttcc ccggccttcc aatcccacta 2520
 gagcttcgtt tttaaacctt cgccgaagtc cgacggggag gggcgttcct ctctttttta 2580
 attcctggat gccccgagg gaagctttga ggagaggaag gtaccggaac ggattatcga 2640
 cgacacttct caccgcagcg tactaccaga atatactcca acttcgccat tgactgccat 2700
 tgattggcca atctcgtctc caatccgggt atcggcggtt tggatttgca ggctgagggg 2760
 gtaaaaaaaaa aaaaaaaaaa aaaggcagga tacataggca agcgtggcaa tatgcacctt 2820
 attccgaagg aagtatgtag tgcagtgcgc aatctggatt ctgggtgtct tccatcatca 2880
 aatcgcttgg ccgctcttta ctgactgttc gttgcatgag tagctcgata agctcgccat 2940
 ctcaacaatta ggcttttttg ccagcgggc tcttgacgt ggtgtgcgac tcaatcatgc 3000
 cgaagctgcg gtacgttgtg ctactagaaa attggagagg agagctagaa gctcggagaa 3060
 ttcattctgg aacgaatgtg tgctgatagc cgaactaggc attgatttct tcgaacctgc 3120
 acgaggtagc aagttcaaac ttactcttga cttcgctgta ctaatttccg agatagttga 3180

ttctgtgatgg gcaataactcg gtagctgacc tgatgtccat cggcaagacc atgcttggtc 3240
 gccggcatgt actcccatca gtcccttcga ccttgggtga gctgcaggtg gaaggcactt 3300
 tcaccacggg cagctattta gtgactgtcc accaccccat cagttcagac gatggagacc 3360
 tcgaaaaggc tctctacggg agtttctac cgataccgcc ggctgataca ttctcggacc 3420
 ccgatccgga ggattatcta cctgaaaagg tgccctggagc ggttattcct gtgaagaacg 3480
 cgcgcatcac attgagcgag ggaaggaagc ggattaagct caaggtgatg agcaagggtg 3540
 atcgaccgat tcaggttggc tcgcattatc attttatcga ggctaaccct caactgcatt 3600
 tcgatcgatt tcgcgcttat ggatataggc ttgatattcc tgcaggcacg tctgttcggg 3660
 tcgagcctgg tgacacgaag actgttactc tggttgagat tgggggccat aggatcatca 3720
 agggaggcaa ttcccttgca tccgggccgg tggaccttcg tcgggcggac gacatcatac 3780
 agcgcttgca aactgctggg tttgcgcatg ttctgaacc cgctgcggat aacgcgctcg 3840
 ttgtccttt cactgattgat cggaagcgt atgctcggct atttgggcc actactgggg 3900
 atttgattcg cttgggactg acaaacctct gggtaagat tgagaaggat tatactcact 3960
 atggagacga gtgttcattt gccggtggca agagtatccg cgaaggcatg ggccaggcat 4020
 cagggaagtc ccacaaggac tgtctggata cggtcacac aaacgctgtc atcatagact 4080
 ggtccggtat ctacaaggca gacatttgta tacaacacgg caccagggtc gggatttgca 4140
 agtcaggaaa tccagacgtt atggatggcg tccatccgga catgatcatc ggctcgtcaa 4200
 cggatgtcat tgccgggagaa aacaagatcg tgactgcagg aggccttcgac acgcacatcc 4260
 attttatctg ccctcaacaa gcacaggagg cactcgcttc tgggaatcac cactgtttttg 4320
 ggaggaggaa ctggtccatc aaccggcaca aacgcaacca catgcacgcc cggcccaaca 4380
 cacatgcgcc aatgatcca agcatgtgac cagatcccca tcaatgtcgg catcactggg 4440
 aaggggaatg acagtggcgg aattggcatc gaagagcaga ttatcgccgg agcagccgga 4500
 ctcaagctcc atgaagactg gggatctaca cccgcagcca tcgacacctg cctggacatt 4560
 tgtgagaagt acgacgtaca gtgtatgatt cacaccgaca ctctaaacga atctggcttc 4620
 gtcgaacaaa ctattcaagc cttcaagaac cgcacaattc acacctacca caccgaaggc 4680
 gccggcggcg gccatgcacc cgatatcata tctgtcgttg agcaccocaa tgttctcccc 4740
 agcagcacga accccacccg gcccttcaca atgaacactt tggacgaaca tctcgatatg 4800

cttatggtct gccaccacct gtcaaagaac attccggaag acgtcgcatt cgcagaaagc 4860
 cgcattcgcg ccgagactat cgctgcggaa gacgtcctcc acgacctcgg cgccatcagc 4920
 atgatgtcct cagactctca ggccatggga cgctgtggtg aggtcatcct ccgcacatgg 4980
 aacacagcgc acaagaacaa ggaacagcgt ggtcaattgc cagaggacga aaacacaggg 5040
 gctgataatt tccgtgtcaa acgctacatc agcaagtata ccatcaaccc ggccattgcg 5100
 cagggcatgt ctcatTTgat tgggagcgtg gaggtcggca agctcgcgga tctggtgatc 5160
 tggtcgccta gctactttgg cacgaagccg agccaggat tgaagagcgg catgattgtt 5220
 gcctcgatga tggatatggcg cactatttta accctccgtc cggctcattc atgcttacc 5280
 agactgacca acctcgcagg gtgaccccaa tggttcaatc cccacaatcc aaccctgat 5340
 catgctcca caattcggcg tacgtcccta cccattgat tttctccttt ccatttactt 5400
 acatatgaaa aaaaaggcct accttcccag cacatctgta atgttcgtct cgcaagcttc 5460
 actcgacaca aacaccgtcc aatcctacgg gcttaagaag cgcgttgaag ccgtcaaaaa 5520
 ctgccgaat atcggcaagg ccgatatgaa gttcaatgac acgatgcca agatgaaggt 5580
 tgatccggag agttatcgcg ttgaagcggg tgggaaggctc tgtgatgcgc agcctgcgga 5640
 gacgtgcca ttgacgcagg attattttgt ttattaagca gggtagcagg atgtaatgct 5700
 tgtatagtgg gttggcgata ttgataattg tttgggtcta aggtgtatat gaagggctct 5760
 atatataatg attggatgat tttcttatga acgggctcta aaatagtga actcaagccg 5820
 aacataagta gaacagccgc agtgcctacc ttctggatag gcacaaatct aagcacgcat 5880
 tttatccagt tcgaaatttt ttcttttcca tcgtgcaagt aatgaggat acagctgaag 5940
 acggcttgcc aagttgtatc aaggatgtag tcacccctga agtagctgcc aaagtcttca 6000
 cagaattgag gaatactgac cacaatgact ctgccttggg tcttgaatgc tgagtgtctt 6060
 gatcgcttgc cagatggatt cctgtggccc tctggttccc ataagagtca atggtgtctg 6120
 gattcttgcg gcgtactacg gctggtgtcc ttcttcgggt ccattctccat gtacatatgt 6180
 aggtctttcc tcttaaattg gcaaggggtg agaaaaaat actgaagcga cgatatgcat 6240
 aatgaagctg catgaaatgc ttttgccgag cgtgatcgac aggttaggta cctacgttga 6300
 ggggttacta caacagtcta gttctatata cacctgcgta tccctgcgat accgttgtgc 6360
 cacttgaaat tcatgcgctt cggctgcacg ccagtctgat cgagtgcagt cgtttcttgt 6420

tagttcttgc agtagtgtca gtgtcataaa cctcttacaa acatataaac tgacaagata 6480
 aggcaagtgc cggaacatg gcatactttg ttcaccgta aatggcacca gtatctaagg 6540
 ccaggaatat tagactctat tttggcgctc atagaaagcc caccctcata tctctgggccc 6600
 gtttgcgtgc tcctgggggc actatatttc ctcaaccccg gccacctgaa cgaatgcctc 6660
 tttacggcaa gtctgcaggt ggcagatcag gaaacattag taattatgcc catgccgaac 6720
 atactgccat gtctgcttca gtttctatat ccggtattat tcgtagcttc agtgctagtg 6780
 aagtcgcacc aagcaattcc aggcccatcg ctcaacagct cggctgtcca tcggataagg 6840
 atgaagagct cagttgcttg tagaccaaga gattgaagac gccgttaacc agtataataa 6900
 tgcgtagacc gatggagatt tctgagcttt aggccaaatg gccgacggcc agaacatcgt 6960
 cgcgctccct tgttgatgc agcgcgagta ttggctatat tggagtgtgc tgaaacctgg 7020
 gatataattg gcctccagtc tcgcagttag tcgcaattag tctcaatttg aggtacggct 7080
 gagctaggaa ccaggtgttc taccttaggc aaccactttt gctgcgggat gattagccgt 7140
 gctgccaggt gtaagtggcg ttcattcttc cagacatgaa gtaggatctt gatatatgca 7200
 aaaacaatct atactcctta atatgaaaga cagcataatt agtcgacact ggagacacga 7260
 agaacggtag ttgggcacgg gtagtagccg tgtaatatcc cgtacttgta ggtacctgta 7320
 actcacgct tcggcgccctg gtcacttccc ttgtgacgtc ggtagccggc atataaatc 7380
 ccagattcct acaccgcta ctctcacag tccgatatgg atgctcctcg agcgtcaccc 7440
 cttgtattcc accctcacgg ctgaggaatc ttttggtcct tgatatgtcg aagctccttt 7500
 ctttgttgcg ggctgtacct ggcggactgg aggttcgggg ttaatttgag gctgtacgat 7560
 tgcctactgt ctcttttgac catccacaaa cttacgatgc ctacggctcg ttcattatcc 7620
 ccgtgcagta aagtttgtac ggtcaatcat gtcacgaca gcgtctggcg cacaggccgc 7680
 atctcccacc acaaatcgcg aaaccacaag agcctcagtc aacgctgcgg agaaccatc 7740
 aaccaagcct cacggagctg aactgccgcc ccgccgtggc caccaaaaga tcgtttttac 7800
 agaccgggtc gctctgcggt acctcgaaga agatccgtcg actgtcgtgc tgcacgtcg 7860
 tttggccttg gagggctatg agatatacat tgttgagcaa tgggcgtgtt caaggattca 7920
 cccaccttt gttatcacia cattcacggg agactcgtcg cataaagtgg tcgctggagt 7980
 gttaggggtt cctacggacg agtcgacatg gtcgccccg ttgaaactct acttcaatgc 8040

agttaagagg tttcagctac gagagaaaga gacgcccctg ggcacagtca tgggtgacaga 8100
 tttgaactcg ttcccatcgg gattatccgt catagctgtg ccagatggcg acatccttaa 8160
 gcaccgtgaa gactttgttg tgaatgagaa cctgaaacgg ttaggctgtg ctggtcgagc 8220
 cggtttgaag ctccaagaac cagcacctgc taccgtcgct aaatttcacc aattataccg 8280
 gacaagcgaa agaatcccc ttacagcgc cgtggtggag cttgtcaaac aatgtcaaat 8340
 cgctttgatg atgtttggta agctggcacc ggagtatgtg gatggcttac tttgcgatgt 8400
 cactgaagat gctgtgggag actggtggac cgatttcgga atggacctgt ataacatcga 8460
 accaagcgat ggggaagctcg gtccctaccac agtagcagcc ttgctaggta ctctgatggg 8520
 ggctcgcaac cggcttcattg cgagcgggtgc ccctgtcggc aaggatgcct ttgacatcgt 8580
 taacctcaaa cgcggaatcg ggagttttca aaaatctcag aaaattgaac ggacgcggcg 8640
 gctggatcgc cacactttgg acagattaca ccgagttact gcaaaggcag ccaatgctga 8700
 gggctggact gacgcggtca aatcaaccat ggctgagctc agcgggcacg ggggcgagat 8760
 ggttatgggc atggttcgcg gcaaagagaa agggggcatt gccgatattg aaacaattga 8820
 cattgacaac ttcgccaac tgatcagcgg cgaaagagca aagtggttat ggcgagggaa 8880
 gccacgaaag agcactgttg agtccaatgg acccccagct gcggatatga tgttcaccac 8940
 cgacgagcaa ggcgggtacg tctggactag ccgcaagcgt cattcccatg aggaccttgg 9000
 catggagcct ctttccagcg atctgaacgc tc 9032

<210> 2314
 <211> 1889
 <212> DNA
 <213> Aspergillus nidulans

<400> 2314

tattcccgcc tctagctgga agatctcatc tcaatctttc cgttctgctg tgtatttctt 60
 ttacttcact cgagatgtgg tgctagcagc cttagaagat actttgtcat tatccaatca 120
 cttctatcta catagtctgc caaacgctgc aatggtgtcc actgtttccg cgcttcaagc 180
 ccgcctgaaa gagctgtcta cttctgtcgc tcaaatacat ccgctcgtct ctcgactgca 240
 caatttcacc acggccgttg gtcaggggga cgatgcccg ctagagctgg gagcagtaat 300
 acactctcga ttaaaggacg ctgaggatga gctggaatta ataaaggacg acgttgatga 360

tctggaatcc actacagata gcagaaggag aggtgcgggc ttagagaaag agacggagaa 420
ggagcggggtt atcgcgttgg ctgcacgggtt ggcgaaatgat ttgaaaagggt tgggtaacct 480
ccgcgataat gcgattctac tctgagcatt tgttgatact ctgcttagga cgcgaggcga 540
ctttcgcaat gccaattac aagccaagcg aaatgctgag cttgctaagc gtaaggagcg 600
agaactactc ttgcgaagggt cagcggggagg gactgagaaa cgaaatccgg caaaggagaa 660
attaactcag gaggatattg tcaagaatgc ttcaaagat gtcacggcag cgttaaggcg 720
gacacaccag cttatgcagg cagagctttc ccgaagtcaa ttgcccagg aaactctggg 780
tatgctgttt catctagctt cacaagtctc agactaacca tcttgagaa caatctggcg 840
ctgccttata ctctctttcg gaatcatata ctaatcttaa tacgtctgctt tcatcgctgc 900
gcaaccttgt cgggtctctt ctccgttcac agaagtcaga tacctggtat ttggaaacgg 960
cattctacat cttgggttggc actatttcat ggctcgtggt tcgggagactt ctatacggac 1020
ctctctgggtg gatcgtgtgg atgcctttta aactcatttt gcggtctggt ttccggtgttg 1080
caggggcaat aggtgtttacg agcaaggctg tccaatcttc cgtggccatt gggacggatg 1140
gagtggctca agaaacactg gcaactgaatc atataccgga agccaaggcc catgttgttg 1200
gtgatactgt tcccgatgat gttccgggca cggatgcggc agacctggac tgggtaatgg 1260
ataagattgg cgaaatagtt gaagaaaaca ccgaccagga aggagcgaat cttgacgact 1320
tctcgctaga ggagttgcaa agacaggagg atatgccgtc taatacaaag aataggatgt 1380
atgatgcgac ggaagtacta cagaaccggc gggatgaatt atagaaagca ccacggcatt 1440
gtaaatgaaa ctaccagac ttgtaacatg atgacatgca tcttaagctt ttaaaaatta 1500
ccccataacg ttcccttaat tttccagggt agaacacctc ccagttttaa ggggtggaagg 1560
cttgtcccgt cgggttaact aacttttggc aaaccgaagg ggggaaccctt tttttgtttt 1620
gggaacttgt ttttaagttc aaaattccgt tttccttata tagaccatt tataggcctt 1680
cccttatact tttggggcac ttttttaaag ctgccccccc ttttattcaa caaatcctaa 1740
aaagggccct cttgaccccg ttaaaaattt cattatactt tgggaataaa tttttcccca 1800
acttaattct acacccatgg ttgaaacatt ttttttctt taactaataa gtctgtctct 1860
ttttttcctc gtaataaaat cactctttt 1889

<210> 2315

<211> 2627
<212> DNA
<213> Aspergillus nidulans

<400> 2315

ttggggggttt ggttgagtgc cgcccgccct ggtaaaattg gttctaggca ccgtgggttcc 60
ccttcacatg aggaattata ggagcctatt gttccacttg acaagggttg gttcctggca 120
cctgcttctg cttaatccta tgagacctca cacagcatga aagtgatttg agttgccaaa 180
gggtgtccgtg agttatcaac aattggttat ctccatgctt gagagacagt tgccatgtac 240
ttggagggtgc ctggcagagc actgcatcac caaccgccat cgaaaattgg tgatcctgag 300
agccaatgga agggcggtgg tgggcgtcgt atgatcgcgg gaatctgccc ttccggcaca 360
accgccggct ggtgacagcg ggcagtgcag cgaccagtta tatttaccgc ctggcagaat 420
ttgtactgta tacatgacta agctttatta taacttcttg aaatatttgc ataaaatctt 480
ctaaagagtc gcttcaagct tcgctatcgc gccattacc tcccggacca ttttatttgc 540
cccctgcgag gctactagta cggcgtccga ggtttgaact tctactcggc gtactgaatt 600
accgccagct tggctgagta aatcgcagtg gcatattttg acatcgcgat gccactctta 660
catgggctct ccgccagcgc ggccttctga tgcaagttca ttttctcagt caccttccca 720
gacacataga gctcatacac cttecgacgc gtgcgcggga agacattcgc gaaagctgcg 780
atacatcctg ctgagccaac gctgagcccc ccgattagga agtctgcttg gccgccgtac 840
acagcaaact ccgacgcagg aaatgttgcc gcgagacggg tgatctttcc cacagaagcg 900
caagtcaatt tcacgccgac cacattcgag acaccgttgg ggcttgactt tgcagattcg 960
tgaacgatat ctgtaatggt ctcggaatcg atgtcgacac cgttgcagac gccggggaag 1020
ttgtagatca cgacggggag cgggcttcga cgggctatat cggcgaagaa gcgcttcacg 1080
acgttcacg ttgtagcctt gccgaagtat gcgggtggga ggacaaggag atagtttgcg 1140
cctgcgctgg cggcacccgc cgctaattcg agcacctgct ttgtcgagtg ggctcctacg 1200
ccggccatca gagggaagtc tgggccgacg gcctcacggg ctgcggagat tagttgtgca 1260
cgttcttcgc gggtaagcaa gaaggcttct gagttcgttc ctagtatgac gagaccggtg 1320
agaccagttt tggataggta ggcgtaatat ttcttctgcg cttccagatc gattgtatcc 1380
gtcgcatggt cgaagtatgt cactgctggg caccataccc ctgcttttgg gacatgggga 1440

tgtgtgttga ctgcagtgga ttgcgaaccc atagccgctg taccctactt tccggtggct 1500
 gaggtatcag gttattgagg attgttttgt ttgcgcagca gaaagcgagt agttgaagca 1560
 cttcaaagct atctccaatc catatatatg tgtacaacat cgcagagtgg ggtaatagat 1620
 caggataaat atccgactgg tgtgggtggc cgtagatttg gggtaagctg gccgtgcggg 1680
 cttatcactc tagcagggga aatattcaga ttgtcggcga acttttatag ttcactgtat 1740
 aaaaagctta atctatgaag gacatatctt ttattctttt gatattctta cgagttatga 1800
 actaggaaca tgcaagagat gaataaaggc catttgccca aagctatata atcccagcga 1860
 acagatagcc ggcttgcgat gatcagtgtt gtccacgatg ttagcaaaag gtccatcgcc 1920
 aaagacaagc ggcttaccgt gatattctcc cacttctccc agccccgccg gcgcacttgg 1980
 gcaagttcct ccatagtata tgctttgccc gtggtaaaat atccagcatt gatctttgca 2040
 tcgatctcga ctctcgagtc atcagggatc ataccctcgg ggatgggtat acgctcgacg 2100
 atcttgatac ctgactcgac gatggcatca tgcttcatgt tggacatcga tagcatccgg 2160
 tcgatcttct tgattcctaa ccaatgcaga atgtcgggca tgagggtctg gaatcgcatc 2220
 tagatcgaga tcagaatgta tggatatatt gcagttggta tgttgacact tacatctcgt 2280
 actcctgcta tattctccgt ccgagtaaag tacttatcgg cagtatcgcc gccacgcttg 2340
 cgtgcgttgt ataccaaata tttggtcact tctcccaagg cacggccctc ctttcggaag 2400
 tagattacaa caccactgcc accattctgt gcctctcgga tggcctcgcg aatcccgaac 2460
 gccaggtagg gccggcacgt gcagatatcc gattggaaca catcgctgcc gttacactca 2520
 tcatggattc gtagagccag tttgacgttc tcatccgata cctctctcgg ggggtccgaag 2580
 atatagacag tcaatccgcc aattggggga agcaatactt tcacgtc 2627

<210> 2316
 <211> 866
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2316

acagccttga agtcagcgat tgttgtaag gttatgggtg cgttctccgc gccctcgacg 60
 aggatagcgc ggcggtggaa aaagtcaatt ggcatttcta agagagagat atggggcggt 120
 gtcttgtagg gcgggcgag gtagtttgta aatagaccgg gttggaaaag agtgtactcg 180

aggatttgc tctctcggtt gacctcggac aggtacgttc ttatcgacga tttgtaggtg 240
 taccaaggga ggtggtcgaa tgttgaactg attgtattag taacataaag aacttggcctt 300
 gagcaaaatg ataagagaaa gggcagggtg ggtgagtag gcaagataga ggaagactta 360
 cgaagccac tcgctcggcg caaacctctt cactccagcc gcgatcgagg cgtcaataag 420
 ccgtctctgg acaggactcg ttctcgtgtc ttgttcaatc acaaaggaca acacagtgtg 480
 tacgcccttt aagatatcgg cgagttgttc agtctcggcg tagtctgttt tgatccaggt 540
 gatggaatcg gggagaatga tggacggggc gtctgtgtac cgatgagtca gtggccacga 600
 gcagtccgag tgacaggata aaaggtacct ttctggaaag aaggagaacc tcgtgtcttt 660
 ttgtttcgac cagggcgtca atgacttctt ggccgacgcc tagagaatat taagtgcaga 720
 tcagttaccc ggcatcatga agtgcacata tgagcatagg ttttcgcagt accactagtg 780
 ccgcccgcga ttgcgatttt gaccatgtca gttatagagc tgccggcctt tagatggtat 840
 caggtcacgg gagtgaatag atgact 866

<210> 2317
 <211> 1235
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2317

tgtgtggtac ttgtaagact tcaataattt caggctaaac tcaaagtttc agccacgggc 60
 catagaatat aaggatgcag taaactcaat acagcgggtg tgccgaagcg ttggtccgtc 120
 gctacccctt cgtactcagt actccagagc ggtgcacgga ccgcagacct aggatagccc 180
 taatcttggc tcgagtctgg gccagctca cgggccacgg cgacaggccc gcgagccgtt 240
 ttaagttcaa cccgccctgg aacacactcc accggctttt ccactgttta gtttctaggg 300
 cacagaacgc tgtagtgacg aattctcagg acaaatatat caacaatggg tcaaggcagt 360
 gatgggtatg gtggaccgtt agcttgatga agcagatcat ctaggaaaga gcgggcgaag 420
 caattgaatt gtaatcttca gacggccgca taggaccact gtggattgcy agcttgataa 480
 tggtaaattt gatgtagata gtattgtaag tatgcgaggc tacagcctgg actcctcctc 540
 ttcttattct aagaagtcga ctaccgtgct gtcgtaagc caaggaatcg atctggcctc 600
 gtcagacttc gttaaacgac gatggagacg ataggtagga tctcagaatg gttggctctt 660

gagaggttgc tatacatcat tctcggctctt ccaggctttc agctgtacat tcttgatata 720
 gttcccgaata tccattgac acctaatatg taaccgtagc tgcactccta acgcaagctt 780
 aagccagac tcggcgtggt agcggtagtg aaatgctatt atccagctct ccaggcagct 840
 gatccaacaa atacccgaata tatatgtaga gagtaacgag aagtgtaccg cacctaagct 900
 cagtttaact tagatcaacc cgaacagaaa taagtgatgc caccgaggcg ttccttagac 960
 catatcattc gacttgtaga aaacagacac ttcgtagtc aaattgattt gattcttatt 1020
 atccacagta ctggcgttg gccgcgtcac cggtagaatc atcgtttggc tgctgttatt 1080
 gcgaggatcc gtcacttctc gatcacgac cacttgcgtt gcgtatatag aggtgtcgaa 1140
 gcgaatatcc cgtttctttt cgtaactcgg cgggtgtgga gggacatgtt gtagctttct 1200
 tgcgaggtcg cgaggggaat atttttgtta gaaga 1235

<210> 2318
 <211> 1665
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2318
 tacagccacg aggttgtgcg agctccacgc actggatacg cgcgattttg ctgcgcgcga 60
 ggccaagatt ctgcttccgg tccgcttgcg tcagggtctg catggaagct gggtagatgc 120
 gaacgatgac gatcatcgtg tgtcgacagt gggatcttaa tgaatcagtc agcttccagc 180
 tcatactcag cacttactgc atcggctcaa acggagtccg gaagcgcata cccccctta 240
 gccgtccata cttattggct agaacatact gaggattggg gggggaatgt gtactacatg 300
 taaggtccaa ttacttaaca gtactctcag tttaacctag aaaattcact ctgagaagaa 360
 atcgatgcgg ttgattataa tagcccaagt tgtccacgac cttactgggc tctcattcta 420
 cactgcgttg agccatctta tagcctgaca aaaagaagtg ttgctggtga agactcgaat 480
 atctcttccc cctgcttgca tatattaaaa cacgcgatga atatggaaga ctaagatagc 540
 taggccgccc tttcaattgt aatccgaata taccagattt ccgtcatgag taaaaaggca 600
 ccgatgtaca tacataaata gccaatgctg tatggacaac agtgttcaac aaacagttga 660
 tccgtgcac atcctcatct ctcatcaaat ctttgctgta ccagatactg cctctcactg 720
 ttccatattc ctgactttcc tggtgaaagg atgccgctcg gatcgaacaa gtccttttagc 780

gcgccagtaa ccttcgagaa gacatggcca ttgaagtcca atttccctgc tagattatcc 840
 atatgactca catgagtacg atacacgata tatccctgct tcactccatc tcgcgccaga 900
 gttttgtaca gctcgtggac gcgcggttct tcagcaaggg tatagacaac taattcaatg 960
 gctaccacat agcgcgggta aacatggaaa tccgcgaaaa agtcaaagtt ggcgctcgatg 1020
 gtgtgctgct ttgccgtgag gtaccagttg tacaactcac ggccggaggg gggaagaatg 1080
 ggtgagtagt cgatgtgccc gccgccgggc tctgcacgac tattgacaag gttcagaggt 1140
 gacagggttg ggattccact gtgagggatt tcttcgctgc caatctcagc ggcggtgata 1200
 gcgcgtccgg gagtgccagg gaactctcgc cactggatct ggacgccagg gatgacgctg 1260
 aatgagcgct ggacggtgct cagcagggcg ggcagcatct ccacggatcc ataaagcgag 1320
 aagtacgctt tccagaagcc ccagccttgc tgcttgcgga tctcctccag aaccgggtac 1380
 ggaacgtggg agttgggctt cgtgtgctgt gccagcttgg cctgcacttc cggcgcttgg 1440
 gagaatagcg caatgcggaa gatattggcg atggacggcg agtttaggat gacagagcgc 1500
 cgcattgaggt cagagaggac gccaccaag gggatgagat tctcttcttg cggaacactg 1560
 accgtgaccg ttgcgtaagc ttctggggct ggggtaatat ggatgccgat tttggtgacg 1620
 actcctgttc caattagcaa tctttgatcc cgatacctcc agttc 1665

<210> 2319
 <211> 4245
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2319

aaaaaacttg tgaaattaaa tcagaagcat ggcaattcaa gtataccgga cctcgctgc 60
 cttagagcaat caagccaatg accactgata tcctccacaa atgccacatg tagctgcaa 120
 catgtccac atggtcagcc agtataccg aagtcgagta gtatcttggg aacggccatg 180
 atccagcgcg cgagattgaa agatcgacat cagcggccac tccctatcag actactccat 240
 ataacttgca tgatcatatc cagtgatctg attggctcac cccctgaacc cctccctg 300
 ccaattcctc agaccgctga tcagggccat gtgaaccatt gctcgcttac tcagagtaca 360
 cccacacgcc tgccaaggcc tcctttgata cgaaacactg aataagtggg tgcgatgtaa 420
 cctcgggggtt ggtcagcctt gttgttgttt agcttagatg gatcggagga ggccgattgg 480

gtatgatagc tagagagttc acggatacag atcctgggat aaatagggtc cgtctatcca 540
 ttctgtgtag gtaaagacca agcgcacttc tataccataa ggcagattta gcaggttttc 600
 accacatgga cgcagacgag atgttccaag tcaaggtagt atctgctagt tcccttttat 660
 attccacttg attaaacaga gtatactcac gaaaatgtcc agaccctcct cacccttctc 720
 ctctccacct ctctcacctg cgccctccca gcggctgaga ctgcggaactg cgcctacacc 780
 tgcggcagtg tgtgctactc ctcatccgcc gtctccgccg ctgcaaatga gggctacagc 840
 ctcgagcagt cgggcgacga cgtcaacgac taccgcgacg tctacaacaa ctacgagggc 900
 ttcgacttca gcgtcgatcc tacctactat gagtttccca tctaagctc tggacagatc 960
 tacagcggtg gttcgccccg tgccgaccgt gtgattttca acgaggatgg agagattgcg 1020
 ggcgtgatta cccacacggg gccagcggga aacaactttg tttcctgcta gggggcttac 1080
 ttctagctta ttctcgagga aaagaatgga tttaatacac ctgctcatga gttccgcca 1140
 atggtttagg cgggtccattg gagtagctgc tgcagccatg aagccctgga tacctactac 1200
 agcatgatcc atacactacc gactgtagat gaagcggggg tccccggtg cgctgaatgt 1260
 atcagatatg tccaatcctg atctggcaat aaattgctga tttcgcagga tgcgcgcac 1320
 gagcatagtt gaggttgttg gatccctctt gagggacggt aactaaggac tagagccaac 1380
 gttgaagggg gtttcaaggc actgtttcgt taccagtcag actgaactgt tgaatgtagc 1440
 agccctgctg ggcgcttttt gtattcgcgt atatatgtac atctagtcgg attaagagca 1500
 agaacacacc atatcccta tgcaaacgc caccgtttac caaaacaatg taatacaagc 1560
 tgagaagaga aattaaatcc atcattcttc agtcaaaca cggggttga gggactggta 1620
 gggctctggt taatagtttt cccgggagaa acctcctcat agtatacgta atcatcgctg 1680
 tcgtcttcaa tcggctggcc aaagatgcct cccagacac cgtcccaaag gcccttcttc 1740
 gtgacgagag ctccaacaag gaggattggc aattgccaga tactggccca gaacaagcct 1800
 ctagcagtac cattggcacc ctggtgcttc cagaatccgt aagcctcttt cgtcaaccag 1860
 ccgttgga cagtgtgct aactaagaag ccatgtccta caatccctgc ccaccagaga 1920
 ccaatggaga gaggaacat gaggactgag tagcgcaggg cgacgcgagc gttgcgcgct 1980
 gggtttgtcc aaaaagcat cttgtatccg gctcccttgt attcctcgcg gatgggtgtgc 2040
 gataaagcgt tgaaatgagg aaattgccag gcaaagagga tcccccaag aagccagccg 2100

ccgagactgt ttctgccgaa aagcatgtcc cttcaggtgt catgtcccgt tgtgcttctt 2160
 gccctgctgc tgcaacccaa cccatcattg gaggaatacc acccacgata gcaccaatcc 2220
 aagtatttat cacatgcatt cgcttttagtg gcgtatatac aaacgcgtag agcgcgatat 2280
 tagcggcgga cagtccagtt accgtggggt ttgttccgaa gtatagcaga cccaacccca 2340
 cggcgccggt tgcaatggca aagaatacgg ccgcacgtcg ggtgacgaga ccacggacca 2400
 gaggcctggt gcgcgtccgt gacatttggg cgtcatatct cggttcgaaa atcatgttca 2460
 aagtgttggc gctacaggcc gagaggaatg tcccggtcgt caagtaaagg aatgtcaagg 2520
 tggaggtaga aagggttagga agcggcgcgga ttgtaggatc gagagcaagg atagaggata 2580
 ccgggtatat cccatatgcc gaagttgtcg agagcaggac caagaaggag agacgggggt 2640
 tagtgagcgc gaagaaggcg gccaaacttg ggcgacgtga cgttttgggg agcgttgaag 2700
 agaaattcga cagttgcgcg gaggcattct gtggaatcac tggttcggcg ccattgtttt 2760
 gtgctgccgc ttcctttaac cgctttcttc ggcgatgagg caactccgac agctccggtg 2820
 atgtgctggg cgttgaatgt ccccgattca gctggctggg agaattgcta ggagaaagcg 2880
 acgtgaaaag agatggttgt ggagtcagat gactgtcacc cttatgagag gaaaaatacg 2940
 tcttgttcac agaagaagac ggtgattgcc cagcaccagt agattgtaac cgcgagatcg 3000
 aagcgagctt gttgactgcg gggaaagaag gccggctgcg gttgaggcat tgtaaacata 3060
 agggcgactc tcgagccact cctaacctcc cgagagaaga ccggaggatc atgacggcag 3120
 atgagcgctt gcgaattgac agcagagcac actggtgagg tcaattgccg atatgaagcc 3180
 taagacggcg cgggagaaaa tcgtaggtca gacgataaag accaaaagcg cagtcatttt 3240
 ttggaaagag ccactaagag ccctgggatg gtcacgtac cactctttct cttgcccgtc 3300
 agcttccctt cagttcctcc agacttctaa ggctagctcc aggcctggaa cacctcgtct 3360
 gtgctctagc tccatcttac accactatgg acgtcattca gaagacgctc gtcgagcctc 3420
 tccagcctta cctccggccc gtcgtcgcgt cagtaccgca acctgtccac gatgcgattg 3480
 tctccttgat cggctcaagc tgccacaaca cgctcgtcgt caaccttgac cttgccaggg 3540
 atccggaatg cacatctctt gcgatctcta aagctctggn gattgggtatt gatggcgcta 3600
 gtggaatcgt caaggttccc cagattctca agctcatcct gttctgctca tctgcgggtg 3660
 tgtcttttgt gtcgtatgcg cttgagaccg ccagcttgct catcacgctt tectacggag 3720

tgcgcaacca atttcctttc agtacctaag gcgagtcgc attcatcgct gcgcaggatg 3780
 ttttggtagg ggtattggtc ttgacatatt gccggccgat ctgcatgagc ggctgcgttt 3840
 gttgcagttg tgggagcgag catttatccc ttgcttggtg acacttctat tggatgatgct 3900
 taaaacatgg gcttaccttt aaggcggcgc caggaccttt ggggtgttggc cagaaggggtg 3960
 ccccaaatacc tgactttttg gcaagaaagg tggaaccgta ccagttattg ttttgctgtt 4020
 ttgacatttt aagacttccg gtttggggaa atttgctaata gtaatcaggg tgtaaaacac 4080
 cctcaaaggc tcttttgtcc ctttttttaa ccccttttg gggggtaacc acaagttcta 4140
 ttttacgggt ttctctcttg ggtttttcta aaactataat tcttgcgccc aaattgttga 4200
 cctcctgaaa cccctctccc aaccctaata ggataacggt gtctt 4245

<210> 2320
 <211> 6832
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2320

ctgaatggac ctagcttcgt cgtccctctt atatacctcc ccacatacct taccactttt 60
 tctcgctctc aagacaagat gatagctcca cccacgctcc attttcttca tctcaatctt 120
 ttggagcctt aaaaagggtc agggacacac tgacctcatc catcaatggc tgaaagccac 180
 aaaaaagcca cccagcgctt tatgcgtttc atcccggata gctcgcgctc gatcattggt 240
 gcaccagtca ctctctggct aatcgagcag tgtgattcgg gagatttcgg tggttaagtg 300
 taacatatga cgttaagctg cagggtggct gcgggcgggtg atgcgggctg gtgccaatga 360
 tcgaccgggc ggtggagcgt gagaagctcg ttaacttcaa ttgagtctag ctcaggcccg 420
 gcggacttgg cccgccgtat agaattgcgg ctagactgga agaagtctag agcagtggag 480
 cttagctatt cgcgatttcg tctgctttga acaccactct tctctgcagt agaggcttaa 540
 tagtgtacct gcaaaacctc aattcaaaca gctattcaca tcatattgcg ttaaataatt 600
 ttttatcatg tctatcgat cgctcgtaat caacatctag gtatctaggt gtagaaatat 660
 acatactata ctgaagctga cactcttcct tcggagtact gtctcgcgag cgaataacct 720
 aactcgccac ctgccttacc tcgagtgcac gacgtgcgct agctcgctgc actccactcc 780
 ctttttttct tttttggtgc gcgcaaatgg cgcgacaagc tctgcattta ggtctagaga 840

agtcaaagct cgtatgcagt attgttgtec cagcccagct cgaaccact tcgatatttt 900
 agcgtgtaat ctgccccgcg ttctcctcac tttcggatgc atgtgctggg gctggagaat 960
 ctgcgcgggt ggccacatag aaggcactgg agaggatcaa cgcggatccg atccaactga 1020
 cagccgacaa cgtactcccc cagacagcag catcataaaa cagcgcaaac agcatctggg 1080
 tgtagagcat ggtggtagct tttgttccag atgaagagcg ggcggggtttt attgtttctg 1140
 actttgaagc attatccgct tcgttgaaat gctgatgaag cgcagacgta tttcgaactc 1200
 gcggtggggg tggtacatat gatagcccg cagttagaag aaactgtagc agaaatccgc 1260
 agacaccgag cagaatgagc agagtccatt ccaacggcgt cccgggcagt tctaaggata 1320
 ttgaaggaag gaacacgatt gcaatggcag aaacaactgt cgtgaccagt gaaaagtatg 1380
 tgaccgaaac cagcgggtgg caccgctgtc cgatcattcg gattgatgca tatgcggacg 1440
 aggcaccaag gaccctatc attcccatag tcaactgcat tacgcgggtg ccttggtctg 1500
 cttcgccagg atgttccatc tttgtttcga tagactccgc attatcgtca gcggcaggct 1560
 gcaagaaagc aaagggccgt gcaatcaaaa cgacgcctat caacgagatg aatccagcta 1620
 actgctgctt acgggtgaaa atctcgccgg ggatgaaatg ggagcaagca tagcagctta 1680
 gaattggcgc gagaaaggtc aacacagtcg cctcggaag tggcagatac tggacagaat 1740
 aatagagccc gtacacgcgc atgaagccac tgatcgcgcg gcagagaagg agagggaag 1800
 tggagtgggt accaaacggc tgcggcactt tcgcatacca catgtacagg tagctcgctg 1860
 taacagtgat tgacatacgg gcgaaaagaa tctacaggag tcagtttcct gcgcgctcaa 1920
 gacaaccgcc caacaatctg cattccgcgc caccaagacg tacctgaaac ggcttgaatc 1980
 cctcgccatt cctccattc agctccagct ccttggtcat gcagttcatg gaagctccaa 2040
 agaactgcga catcagtacc aagatcatcc ccttgccctg gagccagata ttcgtggcgg 2100
 tatcgtgcat cctctccgtc catggcaacg aaggcgtcgg tggctgtggt gaagccagag 2160
 gcaaaggatga cggcgacctt actccatttc cagcttgcat caacggcggt cgttccccag 2220
 tttcaggatg gggcgacca agtgctgatg ctgtcattac tgtcggaatc gagaaagtac 2280
 gagttcgaga gaaaaagctt gatgagagta aaatttggtt ttgctttgat agcgctacta 2340
 taggcagatt gcagcaaaag aagcaagtcg tgactcgta tttcgtagac tcatcagttt 2400
 tgaacaaaaa agtgattcgt agaaagctga tggtaaaaat cagataacaa tcacacagat 2460

cccccttggtc cttgtcgtat ggattaggta taataaaca gggagatgaa aaaaaatttg 2520
gagagcgctt ttactgcggc tggaaaatat tcgagggagt tcggtcaaac tccggttcgc 2580
ggaggcgaag atggcttatg caatgactcc gtgctcctag gtcgcgtgaa cccgattatc 2640
acttggtatt ggacacagca ataagcacag atttctcggc cggtcctat gttgattcat 2700
attgcattaa acgggcatgt gccttcgagc ttgcgacttt ttagacatgg gattcctagg 2760
ctgtgaagtg gacagcaaag agatccttga aagactttag gatttgatag aggttaaata 2820
ctaaggctaa gataagcaag atcactgac accatgcagg cgatcagcta gggagtagc 2880
gctattgtag ttggttgac ccgaagactc ttctatactt atatgtgtgc aaaatcttct 2940
acatgaaagt aaatgtatca ccacccttct cgcgcaacat attccccacc ctcttcgtcc 3000
caacaatgcg ctccagcttc aacgcacgt acttgagaa caacgcgga actcctccct 3060
cagcagctc aacaacgcc gccgggtcca ggcctaggaa acccacaatc tcgccccaga 3120
agatcgggtt atcgggcata ccgtacataa tgatccgctt gacccacga atccggaaac 3180
gtcggaaatg atgcagtcgt tcggtgtaga gcaacaccga ctgccggcca gtcatgaaat 3240
aagaccgtgc gggctgatt tcccggggtt cgggtgattc ggatatcgt ccaaaggaga 3300
cgttggtcgt ttgctgggat gtggcaaagt agttgcgcag gcggacgaaa tcgaggtagg 3360
acggaataaa gataagagtg cccctgcgc tggctctgtt gcggctggta gtgatgttc 3420
gtactaaagt ggatagaatg gtggtggtga agtgcttgaa tcgagcatct gggctcttgg 3480
ttggtgagag gcagtcgaag cgggtgaagg tctgcttcac gggaacaggg agcggcagct 3540
ctgcaatggc tccgttatag atagggttca atttaacctt tccaaagaca ttgtgcatgt 3600
gtgtcgagaa gacggagttg atctcggggg taatgaagga ggagagtagg atcagctgtc 3660
ggacatatcg agcattgttg tccaagtacc atgttcgaac gcgactgaag tcgcagccgt 3720
gagcttcctt cggtgaaga ttgaggtgct tcaaatgta ggaaacatgg tcccagtttt 3780
gcataagtag tgcatcagta tggtaacga taaccacttc gacggaggat aagaagtcgt 3840
ggtctcgttt ttgacactg caaatgtcag taaccagctg aatacctgta ctaggagacg 3900
tactctgcct gatccatgat ggttcgcagg cccagcggac tggcaagaat caagtccgag 3960
gtatagaatt gagtaaagaa cttgagcgtc ttccgtgtaa acttgagacc gattcggaac 4020
atatcgatc atgttccgcc aaaaagctca cggaatcct cgggtttatc ctcccaggac 4080

ggggtcatctg atgcagaaaa ggcgtcaatg aaccgtttct tgttctcttg ctgttctggc 4140
 tggaagaacc gcgtaataga ttcgactacc cgaacacagg cctgcctcgt cggcaggagg 4200
 tacagaactt tgggcctggg gaagccttga tcgcgtagtt cgaggtcgcc atcttggtcc 4260
 ttcgccacac gagcattgtt cttagacaca cgatcccgcg tcttgagtac atggttcgta 4320
 gcgtgcaccg ctagcatgtc tctcatgtcg gcagattctg acgttggttcg agcgccgtat 4380
 aagacatcct ggtagtcgaa gatgtaggga gatacctgtt ggacatttcc gctgaggcct 4440
 ggaatacgtt cggtcacagc tgacttgagc ttctcttga cctgacttgt gtcagctaag 4500
 acgaacagac aatgggttga atactcacct tcacacttga catgcttttc atcgctgcga 4560
 gcaaaggcac gtcacttgc cgcagtcctg gaattgcacg ccagatttcc aatccccag 4620
 gaagtcctt ctttgcattt ttccacttat tctctgatgc agccttgatc ttctgagaca 4680
 gttcgctctc atctgggcta gagaagtgcg actcgaaagg ttcatcttcc gccaaagtag 4740
 aagttggtcc actagacaca agagtttcac ttaccactct cctcgtcgtc actgtcttct 4800
 tgtgcatcca catcgccgtc ttccaagtca ccttcttctg ccggttcttg ctgctgcagc 4860
 tcggcgcca ggggttcttc gccttcttca accgcggtca tttcagcaac attttcagcc 4920
 tcctcggtac cctctttatt ttgatggctt gttttccgct tcttgccgcg cgggcctttg 4980
 ctgtccgttt tcgcttgag caattgaagc aattcattgt acggctgtcc ggactgttga 5040
 tcgctttcgt cgctatcgga gagcacatca tcgtctaacc cttcagcctg cactccatct 5100
 tcaaattgtt cttcaggctg gtcttccgcg cctgaagagc tctcggtcct gagtgaagct 5160
 gtcagatagt gtatactgga caatcggtga actcaacata ctctacttcg tcgacacgag 5220
 ctgcggtgaa gccagggcct tttcgcttca cagagcctct gccacgtcct ttttgaccgc 5280
 caccctaaa aggcattctt gtaattttag attctgcagc gcgattcacg tagcttggtc 5340
 aacaagaaaa aaccgtgctg gatcttcggg gttacttttg cttgcttacc ttatcttagc 5400
 gcgaaatccg gagcgcgcac aacaatttga gcctcgcaga agaacctccg ccgccgaagt 5460
 ccagcgggcc ggaagatttg ggttaaagag aaaactccac tcccagcatc ggcgacagca 5520
 gaggacaaca atatccagag ggcttggtcg tttatttctg cttccttttg tcctacaatc 5580
 atggctgaga cagattcttt cctgcacctt tcccgtcctc taggcctgt cctggcgggg 5640
 tctgcacca caactgctcc cttgaacgtt gtcaccagc ctcagggtaca actcctttgt 5700

ttgaggaaaa tcaagaatta cgtcgctaatt ttgctgttca ggcccttttc tcaatcctcg 5760
 accactctct tcgccgtaac gctgatcagg aacgcgtcat tggaactctt ctgggaaccc 5820
 ggtctgagga tggcaccgag gtggaaattc gtagcacgtt cgctgttgga cacacagaga 5880
 cgacagacca ggttgaggtg gacatggaat accagaagca gatgcttgcc ctgcatctca 5940
 aggcgaaatcc tagggaggtt cttgtgggtt ggtacgctac ctcgcccgag ctgaacacct 6000
 tctccgcctt gatccaaaat ttctacagcg gccagggcga cggcacatgg cctcaccag 6060
 ctgttcactt gactgtctct accgaacccg gaaaagatat cgaaacccgc gcctatatct 6120
 ctgcccagat tgggtgtgacc gccgagaggg ctgccgacag tgctgccttt attcccgtgc 6180
 cccacgagat tcggtacggc gaacaggtaa gagcggtttg gaggccattg ctgcccgtcg 6240
 ggattcagag gagcggtcca cctccctctt caccgatatt gaggccctgg agcgtgcgat 6300
 cgaggaggtt cttggtatga ttgacagggg ttctcgatac gtcgagtcgg tcatcgatga 6360
 ggaggtccc gcctctacag cattgggcca gttcctgctc aatgctcttg ccttggtccc 6420
 caaggttgag cctgctgata ttgagcgtga cttgtatgag ccacactttc ctatgatatt 6480
 gtatcagttt actaaccata ttctagtaac aaccacatcc aggacgtcct ggtggtttcg 6540
 tacctggcaa acaccattcg tacacagatg gagctttcta accggcttgc aactgctcaa 6600
 ctcacccttg gcggcgagtc tggtaacgca gagcaagggtg gtgcccagcg taatcagcga 6660
 ggcaaggag gccgtggtgg gcaacagcgc aaccaagagc ggggtgctga ggaaggtcgc 6720
 gcataggatg attagatttc actatgaaga tacctttgca tttctctttc agctgttctc 6780
 gggcatttct tttccctcat gcaaccactc catttcaatt ccttgccgtt at 6832

<210> 2321
 <211> 3809
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 2321

tatctgtcga ggtttcaact gccattgag agagcttctc aggatcagac agtgtcgacc 60
 gctcgccag cagagagacg cgccaatggc ctattgaggt gaaatcgatg cgcgtgatgt 120
 tgacctctcc atgtgtcggc tgacaaagct ggtgatatcc cggaactatt tccgctagcc 180

gcctgatatc ttcttcgaat cctcgtcttt gacttgcaaa tgaggcgct tgagccatat 240
cctgcttcgc gtttgaagggt ttgaatgagt gaacacgaat accccacttt tgtatcgggt 300
tctgccagcg ctggaggcca gtcggaccgg acaaaactcg gaagccgctc tgcagaagta 360
ctttcgtcgc agaacaaggc acattgtgta tagaggatgt acctgagaag gaacaaattg 420
gaagaaaaaa tactaccgg tatagcaatt atcggacgga gaaccatctc ggagccagaa 480
gtaagcaciaa cttccagaaa gagaacacgc acgggactat agccgcccgc agtcctcctc 540
gtcagtaatg agacgtaatt ctccacgact caatttctgt atcgcgatcc caaatgtcac 600
taataaaaact ggcgcgatcg caccacagcc taggcccac gctacggcac ccacatcccc 660
ctttatggca ccaccaaag cagcctccgc cgtcgcagca tgcgctacga ctgccacgtg 720
ctgccagagg actgcaacia tcagaaccaa actcgctaac acgtcgaagc tcagtacaag 780
gtagaccact tccgtggcgg gtaaaagctt gatttcgaat tcgtcgccac tggcgtccac 840
atcagtgtac cggccaggaa atgtactcag cgcggagaag ctaaggaatt tgaggacgat 900
ggccattatg cctatttctg cgagtcgggg gggatcagtc agtggttttg ccacctactt 960
acgcgagtat ccaatgaata atacattgga agctaggctc gtcggtcggg gggaagggtg 1020
acctacatga tcacggacag aataatctcg tctcgggaagt tgtctgcaat cgctaagata 1080
ttgagagggg cgctgatggg gctgatttct gctcccagat ctctagccgt tgagcgacia 1140
gcccagttcg tggttcctga agagtttgcc gctgcacata gccaaaaata tcccactcgg 1200
atagttaggt cgccagctga actgagattt gaaaccatcg catagaaaga aggattcagt 1260
gccgagagtc tatactcacc accgggttcc cgggtggcat gttgatagga cagttccagg 1320
agatatatgg cagcatccg gtttgaggag cagccggcaa ccagaagtgc tgaatcagaa 1380
tatgttagct aatatttcac ccctagtgtg ttccgctca aagtgtgag aacgccggga 1440
tgactgaca tagaaataaa atagccacca gacaaaagac catcaataaa tgggtggaacg 1500
aatagcgaga gaaaaatcgg gaccagaaaa ctcgaccgt ttcccaggag ggccaacgtc 1560
gaggcctgga gtagtcgttg ctgtgtatat agtcaaattg tgatggactc ctcggcctgc 1620
gagacctgga tctgtgctga ctcaaaggc tggaatgatt actctcttcc tcttcttctt 1680
cttctctccc gttgttatcc tcatgctcct ctttttcttc ggtttgcccg tgttcagtct 1740
cttctgcagt ctcgccccg ccctccagct gctcgtctc agttcggctg ccaccctag 1800

tccatctctg cctccattcg gaatgaaagc gcaacttctg caatagtggg tgcgatggcg 1860
 ttggcagaat tctatgcatg ggtgtctgga gagcgtgcat attctgaaat cgtagcgggg 1920
 gaatctgagc gccaaagtgcg gtcctttcag tctcaggctg agagctgtct tccatcttct 1980
 tcgttttgct ttgtctctg tctctaagca aatgaaagta ctgctgcgt ttaatcgtga 2040
 gggtgataat cgtaacgatg aaattgttgc agccttaacc gcaggctatt cgcttcgttt 2100
 cgtttcgttt tcgtttcgtt tcgtttcgtt tcgctttatt atttaacgtc actcggcgga 2160
 tcacggggcc cactgatct gctgcctccc agggggcatc tggacgtgct acctaaacag 2220
 aactgcctag gaactagcta gatacagggt tgaagcagca actatggaca atatatatta 2280
 gaaataagca gaagaagtac ccagcgtgc cctggtcagg tcttcaaggg cagatgcctg 2340
 ttttgactac ctatagattg gggggagggg ctggaccctt tatccaggta gatgtgtaga 2400
 ctgacacact atcaagcact ccagcaggcc cagttcaggc atatatcctt aaagaaggat 2460
 gattcttgta caatacagct gaattcttca gccctggcag ctatactgaa gagccagtct 2520
 attattttta ataggctgtc ccttatatat ctctatctat ctttccagta ctttctggga 2580
 tatgggcaga agaagaagta tactagggtc ttggctctac tgcaagagca gctttctagg 2640
 tattctaagt agttgaagta ctagtagtat gctgtaaagt ctctgtgcc tgtataggca 2700
 gtaacaagtc agccaagtac ccaacaggga agcttgact cgcgggtgcg gctttccttt 2760
 gtatagggtc taatatccag ggtcttatag gcttgggtg tcttactagt atatatagta 2820
 tatactctctg tacaaagcta ttattttatc tcctattata ggtatgcagg agataggggg 2880
 atgttagggc tgtatataga ggacctaac tttgcaagct tgtctgccag cttgttccca 2940
 gcaatcccag aatagcctgg gatctagtag acttgaagag gcttctatag cctggttagg 3000
 attaagggag cttctaacta ctggatagta agctggctaa aggactctga cagtctgtgc 3060
 ctatgcagag taggcctata gcttgctagc agggaggctg ctgctagggt atctaggagg 3120
 ataactagct atatatagta gtagattaaa caagctacag cacctataga tatattcaga 3180
 cttgctaagt agattagata tccagaccag ctgctgccc ttcttctaaa tatacaaggg 3240
 gcttaggtta ctacctaca gggtaaagta aatacctttc tcagttacct cctagagaag 3300
 agggccctgc ttctaaatta gatagaagag ggaccccta ataagccctt gggccccccta 3360
 tacctgctaa taaaagagta ctactgggct gcctctatg ccctaccccc ctctgcccct 3420

ggggaggaca ggcttgctac tactacttag agggagctct ggctgtcct aggagatata 3480
 attatataac tatactatag gtatatagag gaaggctgct ttctactaag cctgaagtca 3540
 gcanagataa taatattact aaaactagga aagagggact atacctaact taatgcctgg 3600
 cagctaatta ccctcctctc tatcctagga aaaggcctag agtaccttct agcacagcag 3660
 atagctggaa gagtatttag gatatatatt agnccctgt actttagggg cctgccagat 3720
 actctgcttt aacctattnc aggtcttggt attgggtgag aaggccttaa caaggaaaga 3780
 gcttactacc ccccaaatta aaagggttt 3809

<210> 2322
 <211> 2509
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2322

gacaccgagg acctctcaga tagcgaggag catacgcagg atgtcaatgt gtatggctct 60
 gagcaacgat ggagcgcttc tctgcctaaa tggctatggc tgctgcaatt cctcctcgcg 120
 gctcctatcg ttctcattct ggctgggcct atagccttgc tgctaactgg ttccctccat 180
 cagacgggac aggatgggag ctcttcgctg ttcatttaca ttgccattgt ggcacttaca 240
 acacttctct tgtctccgat gctaccgttt gttcatcggt gcacctatca tattccgctc 300
 ttcatgctag ccgtattcgc cgggacgttg atctacaacc ttgttgcttt tccgttctcc 360
 gattccaaca gactcaagct attctttatc caagaggctg atctcgatac tgggtctaaat 420
 actgcttcat tgacgggagt tcaaccgttt gtgcacgatg tcgcggttgg cttacctagt 480
 gcggcaggcc aaaatgtcac ttgtggccct tttggcgaca gggtcaagtg ctcttggaact 540
 ggaattcctc cacacgtcct cacagaagac aaacctgtag aggaatggct ctcatcagag 600
 gtttcccggt ctattgataa accccgccac gctcaactcc agatctccgg ccaaaacacc 660
 cgtgcgtgca aggtcgtctt tgactctcct atcaagaact ttcatgttgc cggctctgcg 720
 tacgatcctc gcttcccgca tacttatgcc aagggaatca aggagattcg cctttggagc 780
 cgtgtatggg ataatacttg gacgggtggac gtggagtggg ttaaccaga cagctcgtca 840
 gatcacagta aaacttctgg ttccctcacc gggcaagttg tctgcctctg gagcgattat 900
 aaccaaccog gtaccattcc agctctcgac gaggtgcgac agtatgggtc tgcttgata 960

ggtgttagta aattggccga cgggctcgtg gagggtcgca agtccttcga aatcgccctag 1020
 cttgccctgg tgcttattta ttctaacgtc gacaacggta ccatcggacg gattgaattt 1080
 ttttaggcgt ttaggatgcg agctacgatt tatgtttcta cttttccttg tctgttagtc 1140
 cgactccttg ctgggagtat cttacaata tagcggctcc attacatttc atgtttgcat 1200
 tcggcgcgga tggacgccga aacatttgcc gtccaactag gtcctgcgac agtagtaa 1260
 acccagatgc cttacagctg gtttgtgtta ggtcacttca atgcaaggta ttgatcactc 1320
 tgtggtacct tggtagagt accactctaa attcattctc ccaaacctgg ttaccgtac 1380
 tacagtttga atgtggagac ctgtgagcgc gacgtcgaaa ttggccttct gaagctataa 1440
 acggccgcct tgtcacctat gaatcccatc agtaacctgt tgattcggtc ttctattact 1500
 tgctccgcac catcgttctg tatcggtgaa gcattgtcta gtcacctgag gtgctcaacc 1560
 tcagctagtg gcatacgagc tcaacatccg agtatatgtt actaaattta cttgatggga 1620
 gatgaagata ataccttttc gcaagaccaa ctcaatgctg gccggaagac tctcagctgt 1680
 ctctaggaga ttatttgctg ggtgtaataa gtgcttacca gcagaatttc agaaggacga 1740
 actgctatct atgaatgagg gcgctagagg tacaattgtg aatttcttat caaacggaa 1800
 gtatcaagaa attgagatcc ttccaacctg agcaatccac gtgatcaaat ataaggttgg 1860
 gtacgaaggc gaaatatgaa tggaaagtcg aatcgagtg tggcattgag atgggagctg 1920
 cagttaagaa gactgggatt tggtaatcaa ggggtgtcgg tggtgattga gcaagacaga 1980
 aaactagaca tgagaaagat gggaaccgta tggatgatat ctgctggaga aggtctttct 2040
 agttgggaag gcttggatct cgttcaaagc aggaattcta cgaatgaagc tgtatcttct 2100
 acatcattat gtctataaat atatcttttg cggtaaacca acagcttgca tgagaccacc 2160
 cccatttac cccgggcgat attagtatt taaaaattct ggacatagaa gaacaaattt 2220
 tcctaagtgt gtttaataat attttatata agaattgcat gttatgctag aaataggacc 2280
 attttgaggt gttcgaggtc acggggctgt ggaatgcttg gtacagtga acattcactt 2340
 ggaattatgt catactgcca tcaggaggct ggggaagtgt atccggccag ggctccagaa 2400
 gacccatgga tagatacatt atcttggtcc agactgaccg gatccctggg aacaccttga 2460
 ctgtcagtaa tactataatg gtattgggtt tgtagcgttc ggatagagt 2509

<210> 2323

<211> 1700
 <212> DNA
 <213> Aspergillus nidulans

<400> 2323

```

cgacagcatc gacctagggt cactgatcaa tattgaggca caattctgct gctccacctg   60
cagttccggg catcctgtct ttgattgaac gctatcatga tctccgacgt cagcacgagc  120
ccaaccggag tccatgcctg acagtcctgc tggatggcac cgtcgtaggc ttaacacgtc  180
ccgcattttg gcccttcacg tgtacgtaaa gcgggaacgt ctggtgtggc tgccgctgtg  240
ggtatcggta gattagaatg gtcagtcctg cggatgggag cccgtattga gccgagcgca  300
ttggatacca ctcaatgtcc ttgcgcggct gcgccttggt tgcttaaaaa cgactggaat  360
tgggacaaaa tgtatggagt agagaatttg gcacttttcg ctgtagcgca gatatcatag  420
gagatatggg cgtagattca ggcaaagcac tcttagaact acccacgatt tcagagcaag  480
tctcgcgcat tgtattgtcc cagaatgtgt ctggccaagc tatggatttg tccttgggag  540
gatctattgc gtgttctgct tgccgcatgc catatgttgt tgcgcttgat atatatttgc  600
gtgaccctcg gccagcgacc atcacctagt ccacctaag ggatcgtagt gcttaccac  660
ctctaaatat attgtatctt atcgatactt tcctcgagcc ctgtgatacc actatggcgg  720
cagagtagga actaaatgta ctatctacct acggacataa cctcggtaa cctcatgtgc  780
agcgtgggtc atcgattctc gacagagaga aatcaaaaag agtggccaac ctactgaac  840
tgtgtccac actccactga aatcccatgc agcatttatg attcatcacc tgcacttgta  900
tttacaggga tttcaacggc ggatgccaat ggagaaatca tcgcttagca tattctcgaa  960
cgttaaaacg gacagatcat attcaacggt ggatctatat tatgcaatgt gcatatgcgc 1020
ccgatgaaac ttcaactgta gcacaataat cccttgtccc acacaagaca ggacggatcg 1080
ggtggactcg ttttgtctgg cggctctcgt ttcaacaaag cctcacggag aatgcttgag 1140
cggaattat gttgtttact ccgcgtccag ggacgcttct ggcgcggaat tggacagata 1200
ggaatgagcg gggttcatcg ccgttttaat gcagtagaga ctgctgaacg gtagatctcc 1260
agcgtaaggc taggtaaaaa aatgatacga tcctagcctt aggatgatga actcaacagt 1320
gagcgcaaaa aaaaaagaat aaaaaagaa agctggaccc gccgggaatt gaacccggga 1380
tttctcaat gcaaatgagg cgtcataccc ctgaccaca ggccaagtt gttagtaagc 1440

```

tcttagctta cagtatatac cgtctactag tattacagaa tatatacgct tttgggttttc 1500
tctcacttct caattcagtc cgtggtgata ttttcggagg cagagagtat aagcacatat 1560
attcatcata ttgacagact tctgacagta acagttgctc tgaaaacatt caccattcag 1620
ccgatccagc ttatacatcc attacgacct tgcattgata tctggtaaata ttaatgtttt 1680
aaaagtgtgt tgtgaggttt 1700

<210> 2324
<211> 1417
<212> DNA
<213> Aspergillus nidulans
<400> 2324

cccagtctat tcagcagatc agcttgggtg tgaccgtggg cgcgagggtg ggatcatctg 60
ccatgcggta ggggacaact gagatatacc aggtacttta gtagagccag atatgcattt 120
cgtggactac gaagtagtcc gctttgaaat ggccccgata cgtccacagg aagcaagggg 180
aacggggagg tgaggacgta taatctatcg atggagatca aagcacaact cctaaccgta 240
tcaagtgaca tgatgtatta acacgtaagg caataacacc acgaattcga cctgcctctc 300
gtaaagcaga ctacagaaga ctacagattg gatcggcctt cccggaagtg ggcagggagc 360
ttatggcgct gactcttcac ccacatcatt tcccgcgcct gggatacagt gaacggcacc 420
agattctctg cgggcctagt ttgtgcaatc aatcccttgg cacggatgaa gcagaaacta 480
gaaggatgcc tcactccctt tgcaagcct agtatagcac gtgcccattc ggcaaagacc 540
atctttgtct gtggagcatc gcggaatgta aaaaagaatg tatgcggcat ggcttcgtat 600
tcctgaaggg taaccgagac gccctgcgaa tgggctacct gtgcgattaa tagtaccgag 660
tcgatacttt gctcctgacc tgaggccatc cagatagggc agcaccagc ccagtcacct 720
gagccagcag ggctggcgag aggatgcgca agcatacccg gctggcagta gaggttcgag 780
cgaggagggc ttgtcggcca gagctggcag gtgggatagc ccggaagaag gtacgggagc 840
gtttcgtgtg gcagttggaa aatatctgtc ttgcatttcg atacgaaaga ggcagcgag 900
gcggaaagat ccgttgcggg actgaccacg gctattccgg cgggcatgac aggttcaacg 960
gtgtggccat ggaagacgat tgatcgcca ttgcgtctca gacgaaggag gatctaataa 1020
agcaggccga aagcaaggca agcgccagag ctatcgccgg cgagaacaac cgagcctggc 1080

gggaccgcgg cgtgaggtga attaggtggg ggcgcgagca gtgttaggta cgcctgaaag 1140
 atatcgagaa gggcggcttg gaaggggttc tgcggtgcga gtcgctgatg gaccatcagc 1200
 acttttgcac cagtctcttt ggcgaggaac gatgttggtc gaggatagca ggatgggtgta 1260
 ttcaaagcaa aggtgccgcc gtaaataatag aggatagtta gtgtaccttt tgtctccgcg 1320
 ttgagtttat ggaatttctc gctctcggag agtgaggtcg gtttgggggt gctttcttcg 1380
 catcgtgacg gtaaccgagc cattcgaatt ccagcga 1417

<210> 2325
 <211> 614
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2325

ccgtgggtcaa tgtgagtaaa gatgtatcac tcttactaag ctgcgctggg ccgggtgttt 60
 aacaactttt ttttctgatc gatacccaat cgcctattga ttgggttggtg gaattatcta 120
 tgaagagggg atccccaccg agggcagggt gttaagccc ttcattctagg acgttcttgc 180
 agagtacatg gatgaagagg acgtgtgaca cgaatgagaa cacccttcaa agtgggtctga 240
 cacctgaaat aaatacatct atgtcagggt tatcggaacg aggtacatgc tcttggcgga 300
 gaatcatatc aacatctcgc taagatactt tggcgccgcg aaacatatat taccagacct 360
 cgtagtgatg gatctcattg cttccccctc tttttcagtt cctctcgtac gcgcggcaag 420
 atgtagcgcc catagtcaat tgcgtcgttg aagttatcgt atcctcggat ggagatcagc 480
 tctgcaccaa gctccacata atccaagata gactctngaa caagtttcca tgaaccaaca 540
 agagcntgtg acgcaccagc tgcgtttgtc gccgtcacag tcgggtacca taacgcgcgg 600
 tcgtgcacct aacc 614

<210> 2326
 <211> 2359
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2326

tccacgtcgg gctcggggaa tatctaccaa acggaccgcg tatctccacc cgcgattgga 60
 gcgggagatt gagaagataa ttgcctagtt ggccttggg gtagaccttg atgattaaat 120

ccacttttagg cgaattccca acgggggaga ctgggggtgta gcttcgctgg atttttcttc 180
 cgtctatctc ggccaatact ttgagatgct gccctagtc aatcaccaat ccgtcgcct 240
 ggagccgcac cttgtacaca ttgggggcca tgcattggcg atccactagt gtcagaaact 300
 gctgggtggtt ttcaccgctg ataccgggtt tctttggagg aagcggcagg taatgctgct 360
 ttactcgcgg atactcctcc agctcgcggg gtcgtagcaa aagagtcttt ttggctgtca 420
 agccgacaaa agttgcggca gcagtgttta atgttgaggc agtcaggaat ccgccgagaa 480
 accctaccca tccgctcgac tgaactcgtg aaacttgggc ttgcgaaaga tagccctgaa 540
 tagattgcca ggggtgttgc tttagtgtaa agaacaacaa tgctagccct ccgcgagca 600
 ctaggctagg cagctggcca tactttgacg tgcatttcc attccttgcc tgcgtttgg 660
 tcggaatddd gcctctatcg cttacggcaa ttgaaacgat acgtgaactt tcttcgggtt 720
 gattttccgg tagggttttc gattgcagac taccgacgag caacgtcttc agtttcacgt 780
 aggcgtcatt cgagtggccg gcgtcttgaa actctgtcgt ggcacccctt ccagcaaatt 840
 ggcggagaat ttcacaccc ccgggatggt cctcacgata ttctgctaca tcatagacta 900
 ttccatttcg ttagttgagt ccttctgcgc tgaacggttc ttaccgtttc cctctatcac 960
 aatccagagg tcattcggac tgctgtgccg cgcgacttcg gccaaagtaa tgctagccgg 1020
 agatgccatg atatcgcgca aagatgcagg tttgttcctc aagcaaggcc aatagaaatc 1080
 cgtaaggatg aaaataggag cgtcttacgg gaggttcggg aagttcacia aactgaccga 1140
 gcacaattgc gttataatga tatttggacg atcttcgagt tgattcacia agcccatgat 1200
 ccgaactcgt tcaatatgac agtcagaca ttctacctta ttggtgaaaa ggaacgctcg 1260
 acacgcgagc tcgatgttgg tgatccaaag acagtgaacg cgcttcgaca gggactagca 1320
 gaagtcttca atatattgag tgcagaagga atcgacttcc atgattgtca tggcccaata 1380
 agtactatcg agagtatttt gcgaagtga tcaatcggtg taactgtcaa cgggcacccc 1440
 gtacgctatc ctacgcagcc ccaagggatc cctatatattg gaaaccactt tgagatctat 1500
 ccagatcatc taggaaatca cgaacgcctc ttcaacaaat atgggtccgt tatccggact 1560
 aataatatgg gcagagtgc atacctcaca aacgaccag acattgcagc acttgcgttc 1620
 agggacaatg actacttcac caaagcacca tcgtcagcga gtcacccgct ttacggaatc 1680
 agggaccaga cagcgtgtt tctatgtgat accgaatccc cggcgtggaa agaggcacac 1740

aagtttattc cccccagcat gacccctcga gccgttcggc actacactcc tctacttcag 1800
cagtcggtag acaccgtatt taacgtgctg gataaattcg ataacaacgg acaggcattc 1860
aatgtctatc acttaacagc aaaactagct tcccaagtga tctgccagct ggtgcttgga 1920
gtcgatcttc atcatttcga cgccgtcgac agtccggtac atcctatcat tgagctcctt 1980
caacgctacc ttacgctcaa tggccgagtg caaacaagg gagcctggca cacctatcta 2040
ccattgggta tgttcctagg tcctggacac ggcacccctg gctagccgat ggtgatactg 2100
gcttgctcat atcagacagg agaccccgga gacgttaaaa aactcgtatg ggaattatac 2160
ggtcgtatct agggcgccag cataacgtgc caaaagaaaa acggcgggac aactggggac 2220
cctcctatac agactgctgc gctacatgcc acctgactcg taaactacct ggccggacag 2280
ccgatgaaca tgtgaacagg ctctgtcctg agtacattac taaggacacg ctcgttctaa 2340
tacggggacg cttttggac 2359

<210> 2327
<211> 1755
<212> DNA
<213> *Aspergillus nidulans*
<400> 2327

gggctcagcg tgattctcag agccattctc tggaagatcc ttgtcgcttt gataggctct 60
tggggcacct tcaactcttg cgtgctccgg ttccagggtt tcaggagctt cgcccggtg 120
ctccagaacg ggtgcatcaa tatcctcgac atattcatct tctaacattt ctgcttcgta 180
tattttactt tcgtcttcog gcttcccttc ctgcaattgc atatcaatgt tctggtttgt 240
atcagggtag tcgtcggcgt ctatcatgga gggctcggct acctcgtcaa tcatacttc 300
atcaggggaat ccacctcgac catgattttc gccatgagtg ttatccatgt agtcatccgc 360
ggccgtcata tccctgtctg cattogaagc ctggctctcc attacatcga tatcgatatc 420
aaaatcatct gcatgccctt ggtaaggaga tgccatctcc attgtatcat ccacgtagg 480
aactccatc gcggaatatg ttaaggacga ggtggttgtc atggctgaag ggcgcgctga 540
aagttctgag ggtggcgctt tggcccaatg tgtttcggcc ctgccgtgag tgaccacgc 600
tcagttctgc acggtgaaga agcctaactt atggcctcaa agagaataat agacaaagaa 660
tgatcctact gaaatgcaag gacgtcgccg aagacttttg ttcacttgca acggttggtg 720

ttctgggcaag ttgtggttaag cgaggggata gcgcggtgca cgggcccaaca ggggccgaag 780
 agaacagcaa gactccagca cctccgccgt cgggtggaata tctacgtatc tggcttcccg 840
 gcagaacaac tcgtgtctct aacccttgtc ttcagttgcc ggtactatct gagctgcatt 900
 cttgcccaaca tagctttgct cgtggtgtct tcatcatggt atgcccaccc tcttccgtaa 960
 aactggccag tcgtgcctaa ccagtgcaca caacctaggt cgttctggca gcgtcaatat 1020
 gcaccgcgag aggcaaagcg gtgctctcgc gccaatccg agaaatcgcc cgctctagag 1080
 ttgaagcttt actcgcctcc ttccaaaac tcgcggattc cggtaaccag catacgaccg 1140
 tggagcaaga caatgtccgc ttcgtttatc aaccctcga cgagctatac atcgtcctga 1200
 tcacaaaccg ccaatcgaac attctacaag acattgacag ccttcacctc ttcgcccagg 1260
 tgaccaccag tatctgcaag agtctagacg aacgggagat tctgcgcaat gcgtttgagt 1320
 tacttagcgc atatgatgag ctggtgaccc tcggttatag ggagaatttg tctctgtccc 1380
 aaatcaagac attcttgag atggagagtc acgaagagcg aatccaagaa attatagaaa 1440
 gggatatccg tatttatatg taacgttcaa ggagatactg agtgctcgca gaacaaagag 1500
 ctcgaggcga gcgaagaacg caaaaggaaa gccaaacaat tggagatgca acggaagaa 1560
 gccgcacgca actcacgcaa tatcgcttcc gtagccccgt gcaacccag gttactcct 1620
 gcggcggtgc ctggccagcc ccacacgtac cacaggtagt aagcggacaa aaaagaatac 1680
 ctttggaag taccttttaa ttagggccca ttgggggcca ggccttggtg taacaccttg 1740
 gttcgtacta ggccg 1755

<210> 2328
 <211> 1241
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2328

ctgacgtctc ggtgtttcct ctccgatacc agcacccttg actgtcctct ctatgcgttg 60
 aacaacacag tcgtcgcaaa caacagccag cgcaccagtc tacctcggaatttcgcttt 120
 accacaagaa cagcagttca tcgtgaccag attcgacctg tggttcgact aacatggtta 180
 tctttcagcc agtttgcccg ccaaccaga aaaaagcgca acgcgtgagt tcgatactca 240
 caacttcatg atttgagtt tatcgtttgt gacggccctg gccaaagctat actacatcta 300

ctttgcgaag aagctcttca cctctcgatc aaatttatgg ccgcttcggc gctgcgcggt 360
 gtgctcaaca tccgcggagg ttgttagccg cacctggaca ggcgcaggag aaacgggatg 420
 tactgcggcc tgcgaatctg gttccgtcaa gtacgtgatg agagagcggg tgatctatct 480
 cggctcttcag taggctctgc tccggcatcg acttcgatac gggcttgcac cgcaccaacc 540
 aaaaaatagt cttaaagtga ggctccgtgc tggacccgtc ataaagcgct gttgagctct 600
 actcccggtg ctgagaactc tacatccacc tgcttgccat ttttgctctc cctgcctacc 660
 actacctatg cctccacca cccagcctcc agcatcccct tcgcaacaaa accgccttcc 720
 tgactggctg gcgagatcct tagcacaggc gtcggattgt gatcatgcct agcggaaaag 780
 ggtctattcg ggagggtggt gttgcgggtg ggatcaaaat cagttctacc tatccaccac 840
 acagataata gtacattgaa ggtaattggg acgtagcgaa ggtagcagt tcttccgtgt 900
 agtatccgcc actgtatcta atgagaccgc tacagatagg attccccctt ttttgcgtcc 960
 gatattgact ggtttgcaga gtagagcagt actatacagg cggaatccga tgataacca 1020
 cacctaggcc gaggggttatt actggctatc ctgataaaaa aggacctaat acaataggcc 1080
 cagactctgg agcctggacc tggacgtcgg ttgaaatact gcaccgtgta cagggtgccc 1140
 aggtctaata cacggcataa tcaatccggg ctttccgttt tggagggtat gaaactcgtc 1200
 cgtatagggtt ggtcgcacaa ttgcactact ctcgtagctc t 1241

<210> 2329
 <211> 2561
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2329

aaaagggtggg ttatgaatta acgaagaatc ggtggggtcc ttaaaacaga gaaaagaggc 60
 gttgttgtga tccatgcaga ctgtcttccg gaaaaaaaaa aaaaaatgtt gcaactcgtt 120
 atagaactac gtgccgcatg cgcagaaatc gagacgttcg tgtgctgata caaacggggc 180
 cgcttggtgt cagtcacgtt ctaccctgtg gcagccaaga tgaaaatcaa actgctgtag 240
 ctgaatcagt caagtcctcc cggatacctg tggaagccgc cttgcccagt ctcttgcggt 300
 ggggatccga cggcttgcac tgcagtagaa gaataaggac gggataaagc gtctgccaat 360
 acgtcagctc tcaagctttt cagcaactgca gcctcactga aacgcttgag cgcttgaggg 420

gtggggaatt cgtttgaggt cgcctgcact ctggcgatat caaccgtctc cgcacgatca 480
 agaccctaca tggttatgaa caaatccatc ttgccagctc atcagccatc tggctctttcc 540
 gtctcgtccc cagtgtagcg atagtctaaa cgaatgactg tgcttttatcc tcaaaagtat 600
 cctaactcgg ctagaagggg tgtaattggg gcagataatg gcacttagag ctaggttgtt 660
 cgcaacgaca cgggtgggtgt gctgaaaacg ctttctctc tgctgagcag ttaatagtaa 720
 tctggagctt cgcgtaggat gtctgttggg gggtttgtat aatccatggg cttgaagcca 780
 cctaggggct tgtatctgca cacaaggcta acgataggag gaggaggagg agccgaatgc 840
 tcattatact ggctaatacg gccagtgagt ggtgaatcaa ttctttggcg tagtaaggga 900
 atgagaattt cttggggatt tgattacctt agaaggctga ggaatattac atcctatgtt 960
 tagaatagag actgcaatat gttcctcctt aatctgagta acgtctttct tggcctggtc 1020
 ttttgagctc aggcttaggg cttggtacta tatgtatgca tatgtaccag tctgcctgta 1080
 agaggtctgt gatacgagcc agccgcctcg ctactgcttg tcttgtgatt tccctggatg 1140
 tatacttact ccgaggatat tgggggaaag gtctgatatt atatattacg cagggatgca 1200
 gaagttgaga tgcttgaaac actccatgaa tctctgcaag gtctgcaatg tctcccaatg 1260
 accgcttgag cgaaggccct accaaactga tccgttgctg actttccagg ggccctgata 1320
 cagaatacca aaatagttag tacgaaacag ccgattgctt tatcgagtac acagagcaaa 1380
 tcccaccagt ccgtgggtcg cttgagagtg gaaggaagcc caatatcaag gagtcgccgc 1440
 gacggattcc catggacagg acgcttattg gcgctcctgc tgataatcaa taagcagcaa 1500
 ttgctttata ccgtctctcg ttagacactg ggctcctccg accgtccatg gcaccgactg 1560
 gcacacaatg agaacagcct ttgcccagcc aaacagatat tgtggattaa ctgctggatt 1620
 gagaatctca ctacgcgcg agaatcccg gatcatcagg aacaagcatg gagggcgcg 1680
 tgattccagc agagactgca agacggcccc ttcttgggtg gggatggaag aacgggcttc 1740
 catgggttcg gatccagcct agaaagcttg gacagtcttt gtggctatac ttgcaaatac 1800
 cctaaaatcc atcttgttcg caaagctggg gtgtttctgg ctacttttag ttggtgagt 1860
 tattggtcct tgagccaggg attgcaagac ctttcgctca cagtacagtt ctagtctcta 1920
 aagacatggc gagactgttg tctcaggaag gggtagacct gtccagcctg atgatgatga 1980
 ctggatacca ggaccctggg ccgcaagggg tagtacgaca gctagcagtg aaaggaagaa 2040

gtttagattg gcctgatagt aagtctacat accattgtta cgaggagcaa agagtggcca 2100
 gaagatgtgg tgaggtgtgc gggcagagac aggggtctgat gtggaccaac taataatcat 2160
 atcagacacc agaattatga gaagcagaaa acaatggtag tagctttggt aaggctgcta 2220
 gcagaaaaag gggtagaaat gagtcttcga gccagtggac tggctgaggt tcttgaaatg 2280
 caagaagcag gcaatgttct gcagcggctt gttttaagaa aagaactatc gagtattgaa 2340
 ctgggataca aagtgaagaa tggccgagcc gtctccatat ttggttgatt aggtgatttg 2400
 ttgtttctag catgaattcc acccactcag cgggaaaagg aatactaagt tgatgattca 2460
 atgctggagt tgttattcag caaactctgt cagttagttc ggttacggta tgcgattgga 2520
 atagataatc agcaaaccac ctactgcaga gctgaacaga t 2561

<210> 2330
 <211> 915
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2330

accagtttcc ttcagaatac ccatgacctc cgagaaatcc gtctgaacag atcaagccgg 60
 cgcgagacgcc gagtagccac tgcactacgg acaccgactc caactccaag accccatcta 120
 tccagaaact tttcaaatac caaccgtgaa cgccaaatac cctgaatcga aaaagcacag 180
 acacttccga ccatgccttc ttccccgacc aattccagcc acaccgcgca gccatctcca 240
 gctgacctcg aatccgacct cctcggcgac ctggcctcaa cacacgccct cgaagacctg 300
 cacacaaacc tgctctcaac actccaacgg ctcggttgga ccgagaaaat cgggcgattg 360
 agtactgagc ttctccgcgc gaaccgatgt gagcgattcg acgacgtcgt tgaagcagtc 420
 gtcgcttcgg cgcagggccg ctgcacccg ttccttgtcg attccaactc cgataataac 480
 accggctctc gcgcaaacca tacacacaat cataacgggg atgtggacgg agttgaaagc 540
 aacagtgcgt actccattga aaatgcggat ttgcggattc cgagcgtggg cgttgagcaa 600
 ggggttcgag caatcaagga tatattaaga gaggtcgta tactggaaga tgaaggggat 660
 ggagccggag atagcagtag tgctactggg acggttagta ataatgctgt tgatgtggtt 720
 ggagagactg cgacgaaacg acagggagag aagggtggtta atggtgatac aagcccggcc 780
 aagaaggggg gcaagaaggc gaaacagccg aagcagataa gatgagttca ttagacaaga 840

aaatggggta ttctatatgg gtttttcgcg ggacttcttg cttcgggCGT tgagagttgc 900
gattaatggt gttga 915

<210> 2331
<211> 1374
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 2331

tatgccccag cgggtgatttg taggtgtttc tgtttttatt atactgtatt atactgtagt 60
gaagagtgcc tgagctttgc aatcataaaa tgtactattc tgttgactta taacttgata 120
gcttgcatct ctcgggaaac aggatctaga catgcagaaa tatataatat ggcatgcccc 180
cagatttgtg agatacgaca aagaacaggg ctgaatagcg gcgaggaaag gcggtcagat 240
tggatgcagc caccacgtca tgctgcccgC ttgcccatgt ccagtcagtc cccatcaaca 300
gttcttgtct agacacatcc agagccatcg ctttctttca acccgtcctg atcccccttc 360
actttcaatt ctcccttccc cccctctcac caagcattct ctgtctttct ctgcttcttg 420
tcatttgtcc cgcttatggt gcgcgcgcta gcttactggc cttgctgcat cctttgtttc 480
tgtcctacce tgcattagct ctggtcgcgg catcgattaa gtccagccca ttccgcggag 540
gggcgcgaca aagcttcgag tttttggcta gccgtcgctc atctatatca ttagcctggg 600
tcagggtttt ctttggccta ccgactacat agcccctccc tcatttatgc aagaaagatc 660
ccgccgaccg aagcattcat gaagcccgtg gccatccctt cttcgccag ccctagccac 720
cgtcgccgtc ctttcagcca tggcggaatg cgatcgtctt cttcgtcccc agcgccgctc 780
ctcctcgag gctcgtcgt cgtcgcgcca cagccagaaa gctaaggcca tccgaacgaa 840
agcccagaaa cgccactccg cgtccaacgt gaccacgacc acgacaacga ccgagtccga 900
aaccgatttg acctccttcc cgtccctgtc gcccgaccgc tcgccaacg gattcttcgg 960
acagcccgcc ttgaaccgtg cgctgactag cgcgttactg gacgggaccg aggagaacga 1020
gtccgctatg gatcgtaacc gggaccgcaa agcggcgttg gctaagctga cactgctgc 1080
ctcgcacagt tctggccggg cggttttgtt tgaggattcc gtaccgattc ggtatttccc 1140
tggggtnntg catttggcag tcgatgogca tatcgagcgc ttgattgcga gtaatggggc 1200

cgtaaagttt gtccggcagt ttgcaaggca cctggcgag cgtcacgcgg agatctctgc 1260
 gttgcgcaa cgtgctgacg agagggaccc ggcctcaag aggatgctgc gtgaggcgaa 1320
 agtaaagaat aaggatattg agcggcggtt gtatgcgctg gnnggctcgg tctt 1374

<210> 2332
 <211> 2824
 <212> DNA
 <213> Aspergillus nidulans

<400> 2332

ttcgtgattc gatggttttt caagcgtgat gacgacaaca gcgcgctcgg tggctcgcgc 60
 ggccgcccgc ggaaatgtcg ttgaccagc acaagtcgaa caaatatccc agatgttccc 120
 gcagctcagc acgcgcgaga ttatgtggga tctacagcgg aatggcggca accggctgcg 180
 acgactgagc gcgttctctc ggggaggggc ttagacgcgg tatgttcata tcttggcgct 240
 tgtgccggct ggtggccatg cgctggttca tccgtaagac aaaacgagat gctaactata 300
 actgtattgt actatagcct cctccatctt tccaaccatt aattgctatt ccgccaccg 360
 gtgtccccgc ccagcctgcg ccttcatccg cgccgtctaa atctgacggg caagacttga 420
 ttacacggta caacctgtcc gcgaagatcg cagaggctgg cggtgctgag cctgagtctg 480
 ggtctgattc gaaaccgtca gctggaggct ggctgcgaaa taaggaggaa cggcagcgc 540
 gctacagaag cggagagatg acatgattct ggctgcgcga aggaggatgg aagcgacgaa 600
 caacagcagc agagtgccca atagcgggca atttctatcg tacctgtctg catcagtggg 660
 tgacttgatt tagattgttt tgtttggtgg atctttggct cttacatctc tactaccct 720
 tcgctgcgcg cctgactgct gaaactatga tagcctactc cgtctgcata gttttgcggc 780
 tacgtctaca tgtattcatg tatttaactt aaagagacag ttgacctgtg ccagccgct 840
 tcgccagttg cgaacagccc tcttttatcc ttctttcttt cttttgtatg gttattctca 900
 tgtttggtat ccatactgga ccgactacc ccatcttggg ctctacaaca cagcgtcgca 960
 tgctcatggt gttaagttga attagattat tcaatcaact gcattcagaa aggagaggta 1020
 gggcatatat aactcgaag tccatcatag gcgaaagaac gctgccccat gtatttggtt 1080
 ttccaaactc caaccgaact tgcaagagaa ccatgaaagc catttcaaat cagaactcca 1140
 tctcatcggt atagtcctgc atgtcgtcgt attcacgatt cgctgcaccc gctagctgtt 1200

cccgacgagc ctgctccttg gaagctccaa tccgtctgat atacattaac agggggccctg 1260
 agcagtagat gagaacaaca taccttaacc catcaactac tccgtgata aacccccctcc 1320
 cctcaccaat ttccatagcc ccaacccccg taagcgccac acctcctcca gggcccgccg 1380
 catcatccaa cacttcaacg ccggacctaa tcttcgcaga tctaacctct ctcaacacct 1440
 tcaacaacct tctcgtctga ttcggatcta caagatcatc ggccgcagca tccagcaaca 1500
 tagttgctac ctccagccaa tgaaacggta gtctaggcgg ctcgctctcg aaggcatcaa 1560
 acgctgggtc ttgcgcgaca ttctgcggca agaacggcgg ggttgcgtag tacttggtac 1620
 cctcgggggt gaaccgcggg cgggcgggtt attttttata gctgcgttcg cgcagactcg 1680
 gttggcctgg gaggggtgga ggtggggaga acgcgtgctg gtaggcctgg tcacgggttt 1740
 cgatatccag gatcagtgac agtgattccg gatgtagcca ggggtggtgga aggatatttg 1800
 cgcggcgttg gcgcttcagc aggagggcga gccagagggg aacgtttgta cggcgggggtg 1860
 gaatgagggg tgcgacggga ccctagattg atatcagatt ctggatgatt ataggtataa 1920
 gggaaacgta cacctaagag ctcgaggccc tctaagcgct gccgagggac gattgtaacc 1980
 agtccattt cggccaggaa ggagatctcc gggggcgtga tgcccgcggg agggggaagg 2040
 ccattgaccg tcgggatagc gtccaatggg tacgagaaat cggatgaaaa gattagactc 2100
 agggccagtg atacatgact tcgcttgact taattcacgt atagctgtag ttgcaggcca 2160
 ataaagtggg agctgaaatg tcgaagtacg gtttgtactg tttgcaagcg gtaccatacc 2220
 gtcgctagca gaagcaactg tttcctcctg gtgggttgcc ctcccactcg aaccattgca 2280
 cctttgaatg gtccattgag aactatgaat gctcaacctc ggtcggccct ggccctagca 2340
 gctcgctatg ccgtcccctt cgggctgctc ttgatcccta tctggatgac ccaagtcaac 2400
 tccgtcgtcc ccgagccata cctcgatgaa gcattccata tcccccaagc gcaagcatac 2460
 tggtcgcac aatggacaca gtgggatccc aagatcacta ctccgcctgg actctatctc 2520
 ttctcgtacg ccgtctgtgc ccttatcctt ctcttcgcg gttccccga acatctagat 2580
 cccccggcac tccgggcgac caacgcggcg gccgcagctg tcttgctccc cttgagactg 2640
 cagaccgcac tcgacactgt gcggaagcaa cggaataccc gtccttctgg cgctgggtta 2700
 agccatacgg tgctgaacat ctgtctatct ccgcgcgtgt ttttcttctc gggattgtac 2760
 tacactgatg tcctagcgct gctggtggtt attgagcggt ataattggga tttgagtcgc 2820

<210> 2333
 <211> 2088
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2333

```

ccgttccccct tcgccacggc cacgccatct ctatcgactt ggcgttcagt gcgacactgg 60
ccaacacaag gggcctcgta agcgaccgag agcatatccg gcttttgaac ctcttctcac 120
gcgcccgtct agctatggac cacgctctgt tcacggaaga acttctcgag aaggccaccg 180
cggctattct gaaaaccgtg gacggcctcc tgcgcgcgcg agtcccaagt ccccttggaa 240
gctgcgtttt cctgaacgat gtcacccggg aagagatggg tgcggcactg cgtaggcata 300
agagtctcat gaaggggttt ccacgtgagg gagccgggat cgagggcgttt gtcgatgcca 360
gtgatacggg atatacgatg aatgggactg agcatgaagg tgagaaagag aaggacgggtg 420
caaaggtcat gaatggccaa gcacatgtga atggaaatgg gaacggggccc acaaatgcgc 480
agaagataac cagtgatgtg gaaggaagcg tgcgcaatgt cttcggaaat ggagttttta 540
atgagctgaa gaagtcattg cccatggcta cgcggttgc ctgtgctggt gaagaggagg 600
cctagagcga gctacatggt tacgagatgc ataaaacatg ctaagaaatc gcagagcaag 660
tttgttcgat agatatatag gtagaggctg aggcatagcc attgcttgat attgtttccg 720
aaciaagtaa tttgggaatt atatgcactt agcactgggt taacaacgta gaccaaagtc 780
catagaaaca aaagaagatc aatatcgaaa ggcacacaac caaacgtcta gagcaccat 840
ccttcgaatc ctgctctttc cactttgatc tgaagtcgag ccttatcacg gtcattaatt 900
aggtgcgcca caaacgtcag aagcaacagc agcacgaatg acgtatttct taaatacatc 960
agtgaatatg tggttccaag cctacagggc aaaagcagtt caaaagatgg aaacgagcgt 1020
ttgtacctat gggatcttca tcttctcagg taccagtgtt cgtagcatga ggctgataca 1080
aggggtggaag aagaaagtcg gccacgtcgc aaagctctgg aaacatatta tgagcgtgac 1140
tcgacgaggt aggggcgctg tgccccgctg gtagggctgt cgtactttac gggaggtgca 1200
ggcgaaagtt gagagcgtct aagaatagtt cgagaagggt agtttcggaa acagctggga 1260
cacgtgggta gacaaattga gtagagaggg atcggtagct aagtataaat agtactatag 1320

```

gctgggttgg actggacaac gaaagctggt aaaggactcc cgagtcaggc tacaagagca 1380
ttatatagcc cttggcagca gttccgaggc tgcaatagca atttgaaagg ctgagagtga 1440
atgcgagaca tcggcgacta tggctaaatg taaccaggc agcattttgt tggatcaggc 1500
atcgaaagac ccctgcttgt aaactggcta agctgtttgc taaccagggg gcggtgccgg 1560
gaactagggc taggagctta ttgggggttaa cccctagac agtttcacac tgtccagtat 1620
gccatgatcc acgctgtcct gctactgact tgtacctgac gcccgaggag tggatggtat 1680
aagagctgga acatagattc aagcgcatgg ccaccactat ttcacctctc cctctagcaa 1740
cgttcgagca catgaatatc agatccaggg aaaacaactc taacgtgtct aaccgattgc 1800
aatgcttgca attcaaggcc gtggcccaag ctccctgata ctaccaatt acacacagt 1860
gcaccgatca aacactgctc ttatccatga caacgtctca atacaaattg ctttgcatcg 1920
tctagttctg gagaatgaaa tgtgcacagc acaatgacgt cctgtttaaa cagtaaaaat 1980
tcaacatcat tgctttcgct gctatctaact actcaacacg ttctacccta taaagcgata 2040
ttcaatatat ttgcgttctg caatgcactc taattgatta tttattat 2088

<210> 2334
<211> 1845
<212> DNA
<213> *Aspergillus nidulans*

<400> 2334

tgtgtaatat taagctcctt tatttactcg aatagcttgc taatttaact tgtttgactg 60
cttagcccgga ggcaccgaag accagctcgt cccctccggc cggcgatacg ggctggcatc 120
gatcctcaac ccgctagcct gtggcctttt tctggaaaac acagcccacg gagaagccct 180
cagacggccg gtttagcgaa cagaatcgca acatctgtct gatgtaccat gaccgctgcc 240
tcaaaaccga cgtgtttgat gcattgctgc tattggtgcc cttagtagca aagcatggtc 300
ttaccttggt gaaggtagcg ttctgcttgggt gtgctgatca tttagcgcta cgactacga 360
atggaaatga cagtattatt atcgggctag cagcttgagt caattgtgaa gcaatctgaa 420
tgccgtgaga acggaccgtt gccggatgag ctggctgagg ctctggaaca gacataacgt 480
atggccaggg ctggtacctt tatgatacgc agaaggatca gcctggtaaa tatgctggat 540
agactagttg gatagatcta ttattattct gcattgtcac gggagggtgt ccttatgagg 600

ataccttcta catggatatac aaaagttgac ctgcgaaatc aaggctctag catcatctat 660
 aaaccagtga aaatacgtag taaagtgtat agcctgaatc ctctagtacg aatctacaga 720
 atcgtactta atctactctg gagtaggtta gtacgataga gcctttcatt cctacctgct 780
 attgcccagt atactcgggtg ctagctaggg cttctcgatt agcgccttctt gatcagcgct 840
 ccacacaatg gtcagccaca gccaatctca tgccagatga ggctgcaaata gctgaataat 900
 tcgaccccgat atgattaacc actgtatctt ggagtagaat accctacacc tctccctatt 960
 tgtcaatttt catgcagctt actcctcaca caacatgcat gcagaccttg cattggggacg 1020
 ttgcagacat tgggtatatct ttccgtccac ttaaacatct ggaaatcaca gtgagtgcgc 1080
 agattaggaa tcaagacatg agtaaattggg taacattaag tatatgtaaa ttactagact 1140
 tgaaagcaag atgtatgtga tacactaagg tctactgagac cagccaagtc atatcatatt 1200
 tagattgtga ctagtgaata tatctccatg gtttttaag gaaaatttcc ttctcctaatt 1260
 aaataattta aaagtcttct ttaagagtct gtcgtgttgc tctgtgtgca gggtcaccgt 1320
 ggggcgagtt tatgtttacc tgcctaaccg ctaggaaaag ctcttcgctt ttacatctta 1380
 attttctggt atcctgatta ccctaatact gtttacacct gaaaactcgc gtgatcggtta 1440
 cctaggtgta gccttgctag caccatgtac agtggattgg agacttattt gtggagacta 1500
 gcgcgggact ctcaagtctac gggggctgtc cgaggaagat accacctcca catgactcgt 1560
 tgtgttccgg tccttgatca ttcaaagttt catccatccg ctcggtgca atgatattgt 1620
 agaggattac aggcacatcg cctcatggat cgctccagca caagacgccg tcccaagtcc 1680
 cgcagagttc cagacgagaa gcgcaacgac gctgccagc cgtaagttcc tgcccaattg 1740
 ctgaatttct accgagcctg cgactggaga tttcctctcg gttagatgtg accgttgcaa 1800
 gccccgtaag agcaaatgtg taggcgtcaa tacaggaaga tgcag 1845

<210> 2335
 <211> 610
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2335

accaggggaa agaaggcagc ctctgccatg ccgaggaacc agcgcacgcg aacatgccac 60
 caaagttctt tgtggacgat gcaataaggg tgaaggagcc aaagctaaac atcaggattg 120

gcagcaccct cgccggactg aagcgcttgc ctagcatagc gattggcggc gcgaagatca 180
cataggaac gaagaagatc gatagcagaa gattgtactg ccctgggttg aaatggaggt 240
ctgacctgtt agcaggggct ggagctattg attttcggcg gacttaccgt cgctcattcc 300
atctgtctct gcattaccga gattgccctt gtccagagca ttgaaaaggt ctatacgtaa 360
agtcaactac tgaacgccgt ttgaagattg cacatcacca acacataata gccaacacgg 420
gcatcaaccg cagatcaaat cgacggcaga gcgcccgttc agccttatga tcaacgacgc 480
gagcaacgtt ctcaaccacc ccaggggcat agtcattctt gccgggagcc tcctctggca 540
acgaatatct ctcahtagaa acggggcgtat cgactgtcga aggagatggc ttgaagtcca 600
tgatttggtg 610

<210> 2336
<211> 3146
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 2336

acagccattg tacacagaag cggccccgatt tcctgggctg cactggagcc gtggcgccgt 60
catcgcccat ccgccccggc tgtccttctg tagtgggcaa aaaggacgca gactccgatc 120
ccttgtagca tcgaacatct gaaacgacgc tcttgtgtgc tccaattccg cctgtattct 180
tcacctgacg caggtcccag cacttgaccc agccgtcacc ggacccggaa agcactcggt 240
acccatctac tccccagtct aggcggaaaa tctccctgat atgtccctcc aagatcatga 300
cagtgcggcc cgttcggagg tcccagacgc gtccaatact gtccagacca ccgctcgcca 360
ggagagaacc gtcattgttg aatgcgacag tatagacttc ccgtgaatgg ccttccctgta 420
gctgtagctc cgccgttgtc tcaacatccc atagtcgcca cgttgtatca taagatgctg 480
atgcgatgta tttccccgac ggggtggaact ctgttcggca caccgggccg gaatggcctt 540
caagtgtagc aagtgggtga tccttatcaa gagaccataa gcacacatta ccctccccgc 600
ctccggacac gaaattgaca gctgactcag atacgttcga ctcaggtagc gtagctccgg 660
ggaaccaaga caaacacccc actcggtcag tatgaccttt gactgaaagc ttctcttcca 720
gattcggcac gccagcaat cggataccac caccacagtt accagtcgca attgtctgtc 780
cgtccggcgc gaaccgacaa atactgacgg gccgatcgcc cgcaatctga gaccgtaga 840

gtccgaagtt atgtaacttt tcttgatcg ccttgcgatg cttgatgtgt gttcgcagcg 900
 gtatcgtcga ttcctctcgt tgtcgcgcaa cgcgggcttt agcgcgcggc agggaaaacc 960
 gcgcaattgc ttttcgtgcc ttcaaaagct catcggagcc ttctgtgtaa aactcctctt 1020
 gctgctctcc ttcgtcctcc tctcctcccg cctccgccat ttcgatatcc tccgctgccg 1080
 ccgcttcctg cttctctgcg atgtccgtca acagctctcg cagtcgatct cgcctgtccg 1140
 ctggcccttc tccgaatagt gtgatgggct ctccaagctc tcgcaatcgt gcgcggactc 1200
 gagtatcatc cgtcgggtact gccatggcag cggctcttcg tttgcgttca aactgggaaa 1260
 taatcgcaga tgctttctct gccggaatac cggccgcgga cgagggtatc acatagtcgc 1320
 ggtcaacagc tagtcattca tgtccaatta gtgatcaagt tcttgaacat cagacttgta 1380
 gtctaccgag gtcgtatact caccgaaatc agctagattg atgcccgtat ccatctccta 1440
 tcaacagggt cgcaagggtca gtcgagatcg cgtaaccttc aaacaagaaa gttgtaaacg 1500
 acattttaag aaagatcaaa atgtggggcg tggagggatg cataggaagc ccttacctct 1560
 gcctcttcca cataggcctg tctcgtctgg tgcatcatgg tgggcaatga aaggggacca 1620
 gggggcccca aaccgtggat aagcaaccaa ctgacgtgaa gacctgaagg atttgaccgg 1680
 actatagttc caggaagctg ggatggaaag gtaacgacga gtgtctcggg tgttctcgaa 1740
 gctgaagcct gaagagggaa aaaggcagaa agttgaaaag cggaagccgc aaaatacaac 1800
 ctataacagc ctcaaaggac gccagcgtct ggactgccta catcagacgg attatagacg 1860
 aactttggcc ttgggagatc ataagccaga tcttgaattc taagggtttt taccttgaca 1920
 tttgagctcc aagaagcttc ctagtccatc tacgatgagt gtctgcttct actgcgcatt 1980
 ggacctgac caccgatct ttggcttcaa agttccagaa gcggctagtt acgggtagtt 2040
 gttgggcaat gaactggacc gactatgtct tgcacgcggc tttttcgtcc aaattctgtc 2100
 catagtccat actctgctct gccgtatctg agaccaggcg gtcggcgaat ccgctgtttc 2160
 gtcttcaact acgtcagtc gtgaaaaatc cactgcgac gtcagatttt gtaaaaagtc 2220
 tagtcgcatt tgagtttgcc ttttccata ccgccgcgt gacgggctcg attatttgaa 2280
 cgtcttcttt tgcctttcag gcgtgccggc tggaaacttag cccgcgagtc catctcctcg 2340
 ttcgcacttg gcttggtggag ggtctcgaac acgacgagcg aggcctccg gtgacggtct 2400
 gacagtctgc tcatgatctt atcggtcagg ccagtagag cctgcgggtc agccggcagt 2460

agcctacagg ccacgcgcgc cgagaacttg acagggatcc tttggtctcc tgcagcccca 2520
 tctcaatctc tccggcgtct accgcaggat cggccttcgc aaccactaca gagaacacga 2580
 ctcccccttc ttcaagtaca ttctgtcaaga gcttttcctt cgacccaaaa cgtgactcgt 2640
 atactccgcg aatatcatat ccgttttcgc gcctcgtcat caggcaagag ccgcggattc 2700
 ctaccacaga agaatgccta caacttcaac cctgagcttc atgacgccct cggcgttgcc 2760
 gtcgacacgc aggacccgcg gaccaaacgg aaacggcggc cggatagcgg agaggatgct 2820
 ttcttcgtga gcacagtagg ccggcgccgt gatccatcca aggataacac cattgccttc 2880
 gcagtggccg acggcgctcg cgggtgggcg gagtcgcgag tcgaccagc agacttttcg 2940
 catgccctat gtgattacat ggctcagaca gcgctggatt gggacgggcc cgctgagcaa 3000
 ctccgcgcaa aataccttct ccaagctggc tacaccgggt tgcgcagac gagaccatcc 3060
 ccgcaggcgg cagccccgcg tctgtaggta taggcctcga cgacggccgc attgaaactt 3120
 gcaacctagg cgatcncgat ctgttc 3146

<210> 2337
 <211> 1685
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2337

actcggacaa aaagttttcc attgtttcat ccagtaatcg ttgtcgccgc caaaaggatc 60
 gaattgccac ttcggattga ttctgcaaaa gctctttcat ggcttttttcg cctcacgttc 120
 ctgaaagccg gtaggtatcg cctcccagg tcgaacacgc cctttgtcgc gttatgtgaa 180
 acgcgagatc ctgtgacctg aagcaccat taatgcgacc gtcaatagaa ccacaaccac 240
 tttagccatt cttttttttt ttaatctaataaagtacttt cgagatgcga aggcagacca 300
 ggaatcagat tagtggcccg cgttcagctc tctactgattt tctcgtgta agataaccgt 360
 cgggattatc gtcattgtca acatcactca ctagtgttg ttagtccaac aacatctccg 420
 cagcacaat ccatgatgac tatcagcggg ggttgagaga agcggagagt caggccaatg 480
 aagggcagga agagcgactc actgacgaag agtatgaaga taatatcggc gagactcccg 540
 aggaaagaaa gaagcgtaag cgaaaggaag cagccaccct cgcgaagatc aagcagagca 600
 aggagtctgc tcgccgcaaa gctcggcgca ttggtgagcc tgatgatgaa gatgagctta 660

tcgcaagggga gatgctgaaa gagcgtgctc ggcctatgcc tgggtcaactt gagaattgtg 720
 agatttgcag caaacgattc acagttacac catacagcaa gacagggcct cagggcggtc 780
 ttctctgccc taaatgttct aaggagggttg gtgacaagga gaagaaatta caaccaaga 840
 aaaaaggacc cagaactact cggcgccaaa atcaaagtga ctttctcgac gggatcacca 900
 gcatggtgct ctacgttttg ttgagatgtg caccaagggt tgtctatgaa catttctttc 960
 aggtgttgct tagctgacac tgttcagaaa gtggctgata atatccaaga taccacggag 1020
 tttggtgac ttccatggca acctttacgg tatgtatcta tttcaaccag aagtgcggca 1080
 ctgctaagt acatgccagt cgcctaagtc aaatactttc aaaacgacgg gcattgacac 1140
 ccaggacact ggatcttttc ctccgacctg atttgggatt cattgacata tgcgactcgg 1200
 gcagtatgac tgggtgtatcc tgcttatggg tttgttcatg ttttaactca cctgtttaga 1260
 gcttgagacg gacgacttca gaaagatttt cacgtttatg cccgctctga ccagcgtaaa 1320
 ccttcggttt gctggacagt tgaaagacga tgtcatagac tacatgctcg atcgaaatct 1380
 gagtatccga catctgcaac ttgattctgc aaatcttgct tcggatctga gatggagaca 1440
 agtattccag aagctggggg ataagctaga gacactcagg ctgtccaacc tggactcttc 1500
 gctagatgat gagagcattg aagtcattgt taaacactgc acgggactcc gacgggttaa 1560
 gctcacccaa tgttgaggga tgtgtgaccg ttctcttcga gccatttcaa cgttaccgtc 1620
 tctggaacat ctgtcgttgg acttgataca ggaaacgaag accgatagcc ttgttgaact 1680
 agttt 1685

<210> 2338
 <211> 1447
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2338

aagccaccga gtgctgtcaa acctgaaggg aaaatccttg cagatacctt ggttgagcgt 60
 aacattcccg agggaaactgc cacagctcca gagcctgagg agttggacga ggaacttcac 120
 cggaaggaaa ttgctaccga gttccaccgg atgaaaaaca ggatggccag acaaaacggc 180
 agttcttttg atgatgaaga acaagaaatg gtttccgctg acccaagaga accgccaag 240
 cgaatcagta aattccgggc ttctcggatg gtatagctcg tataacaaat tcatacagtc 300

tgaaacccga cacttccgat agatattaga tatccttggtg ttatTTTTtagc atctagatcg 360
 agtttcgaga ttgggagatg ggagttctct caaagagcat atcaggcatc ggttggtata 420
 ttcacgttg agaactccaa gatcaaccac gagggctctc tgactggttt cctttcctgc 480
 tgtattggac tcggtcgagt acttacggtt tggaattgat ggaaatccgg ttacgtttca 540
 ccctcaacag cattacattc aacctttagt gggcttgaat ttagatttat tttgatcaat 600
 tattgccgag taaatccacg agctcgtctc agaactacta tcgtgaagga ataacttggg 660
 ccgcatatca tggccgggcg ttgtagccct gttcctgaaa tagaactgca cggatgatctt 720
 cctgaatagt tactctgagt attctgggtg cacgctttct ctgcattgtc atttgctact 780
 tgattaactt gatctggata tgatagtgtg atgatgcaa cgttccaata gtgcttggtg 840
 agtctgggtt caaaccatgc ggctaacctc cgttgtagta gtatggttat gaacagaaac 900
 ttggaagaga aaccatatag tatcgatgcc cagtgtcaac gaatccttca aacgaaagaa 960
 tccacgtact ttgtagcagg gaaagtgtt taaagtcaag ataaaactga tttgatcctt 1020
 gtgagtgggtg ggtggatggt cccagcggcg agatgctcta cagaggtata ccttgattat 1080
 acaaccacta ttactatatt tatagacatc cacttaccaa ggcataacca ctcttcgtaa 1140
 tccatgacca caaccaacat acttttctcg attcaatctc gacagcgggtg aattgtcact 1200
 gcacgcatcg aaccggcat ttccacgaag aaccaattgc tttgttttcc actttgttga 1260
 atgcaataat gacgtccaat ttggtggata ggatcaacgt gggtagtttc ctgaaggaag 1320
 aggtgtacgt acagagtacc cagtctgacg ctcaccagcg atcagaattt gtatgagatg 1380
 tttgatagaa atagaaataa gcaaagccgt tggcgcaatt cattgagctg gccacacaaa 1440
 gttccgg 1447

<210> 2339
 <211> 1265
 <212> DNA
 <213> Aspergillus nidulans

 <223> unsure at all n locations
 <400> 2339

tcattcagct ctgtacaaag tacttggtta gacgccacct gtctcttgat aatgtatatg 60
 gatattatTT ttttataggc catctctagc cttctatcct atgaaagttt caccagattt 120

acctcagcac caagctgctt ctcacccacg actgatgccg ctcaacttcc tcaaaaacct 180
 cttgccctgg ggcgagagag tcatattcaa tctcccgcca tgtcaaatag tcgagatcga 240
 tacagcgag gagaaagctg caagagccct aaagcacctc ctcaaactca accatgccaa 300
 ttatgcgata ctgtggaatg aacgcaaatt tcacaacat gcgcctcact cattatgctc 360
 gttttatttg cttggagcca acgcagatga cctaaatcgg ttatatgagg cggaattaaa 420
 gccgttagaa gcttggattg attcacctgg tgagattagc acgtacgatt ggagggatta 480
 tctgggaaag agagagtga atgtctgtct ttgtggcatg agaaaatgct aatagggtc 540
 gttcagatac caaagagcgt acgtcgattt cttcgaagac gagcttgtcc gccacggcta 600
 tgattggaag accgtcgtgt ttcaatacct cttctcaggc aaggaacctc ttttcaatgc 660
 tctggcctct gatcgtaagt attagccttt ctttaaggaaa gcctgatact cacaatgaga 720
 cagttggcca tcctctcatc catctcgctt acgctttcga agtctccagc cgtgaagtgc 780
 ccatggaagc cttttccctt gcaactgtct gctacggcac cgctcacaaa tacctcgatg 840
 acccatccta ctcccaagct gaatcctcct atcattccac gtcccccttt gagatcctcc 900
 agaaagtccg cgctgacaag cgcctaagca acctcttcac agcgcttgga gaccacaata 960
 cggaatcgt cttccgcat gcggaagcaa caatcctcga tcaactggaat gcctggaaga 1020
 ttacgtccaa cagcgacccc gtgaaatcgt tccgagaaag tcaagagctt gctgttgc 1080
 tattgacagc cacatcaagt tctgataacc gggacgcgaa atacgacttc ttcttcgtcc 1140
 acgtcctcac gactagtcac gccgtgcggg tctgtctccc gctgatacca gcgaaattcc 1200
 agatccccct cgtgcggcag tgggtggttaa tgactctngc tgtgtatatc gggcagctga 1260
 agcca 1265

<210> 2340
 <211> 1307
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2340
 tgttgctcct cgtgctctct ggcggtggcc tccctggccc cctccccctc agtctcggtt 60
 cccccctcga tcggccacgg tcttgtttta ggtactgaga ctcacgttt atgattcatt 120
 gagcccgcca gccgcgattt tcttgccagc ctgctttttg ttcaattgac tgattctgct 180

gcggtcttca aatatactca agagtcgtgc tcaactgcata ctttactctg gccgggggtcg 240
 cttgggatcc gaaacagaga ccaatacgaa gcctcatcgt cgacggtcac ctccgcgtag 300
 ctccaaccac gaagcctagc gctgcatgct tccagtttgt cttacatcga ccgttgtctc 360
 atcttaaacc gtcctcgatg cctactctag gaggtctttt gaagaaacgg cgaacgaggg 420
 attcgcaaga cctctccaag gagctccagg ccggttccac cacgactggc cacaccacga 480
 cgtcaccaat cgctgccgaa gactcccagt cccagcagca ccacggccac cacggcggcc 540
 accatttctt ccaccataac caccataacc accagccttc taacaattcg gctaattcgg 600
 cgaattcgca gaattccac gccgctaaac accaccaatt cgaccagtct tcagctacca 660
 gtaaccagcc ttccgacggg caaacgcct ccatgcaatc ccccgacaaa cagccctcta 720
 gtacttccgc aactcgaat tccggccacc acagcaatgc cgccagcata cacaacatca 780
 tacaccgctc gcagcagaat accccgcagg tgctcggggc ggagcgtacc accaagggca 840
 aatacacctt cgatgatttc gcaatccagc gcaccctcgg cacaggtagt tttgggcgcg 900
 tccacctcgt gcagtcgaag cacaaccacc gctactatgc catcaaagta ttgaaaagg 960
 cgcaagttgt caagatgaag cagattgagc atacgaatga tgagcgacgg atgctgaacc 1020
 gtgtcaggca tcctttcctg ggcaccctga gggggacttg gcaggatgct cgaaacctct 1080
 acatggttat ggactccgtc cagggtggag agttgatcag tatgcttagg aaatctcagg 1140
 tgagctatgc tgggtccatga ttactacagg agcgagctga tgggtgggcaa atggaagcgg 1200
 ttccgcaacc ctggcccgaa aatctatgct ggccgaggta cttcggccgt ggagtatctc 1260
 cactcattga gtattattag gcgagagctt aagcctgaga acttggt 1307

<210> 2341
 <211> 1308
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2341

ctctctgcga taacgtgtga tactcccaag agtctctatg cgctcttacg aaatgaccct 60
 aagccctctg agcatgcggt ggaagaagct tttgacggaa acctttgtcg ctgtactgga 120
 tategaccga ttttggacgc tgcccaaagc tttaacaagc caatcggtcg tggcaaagct 180
 cgagcaaacg gtggctctgg atgctgtatg gaagaacaga aaggcacaaa tggatgttgc 240

aaagggctctt ccgaggagac taccgaagac gttaagcaca agtttgcgtc tcccgacttt 300
 attgagtaca aaccagacac ggaactaata tttcctccgt cgctctggaa acacgagttg 360
 cgccctctcg cttttggtaa caagagaaag aagtggatc ggccgggtcac cgtacagcag 420
 ctcttgaga tcaagagtat tcatcctgat gcaaaattga taggtggcag caccgagacg 480
 cagatcgaga tcaaattcaa gcagatgcgt tatggagcat ctgtctacct tggagacctc 540
 gctgaactcc ggcaatttgc ctttcatgac aactacttgg aaattgggtgc caacatttca 600
 ttaactgatc ttgaatctgt ctgtgatcag gccatcgagc gctacggctc agctcgcggc 660
 cagccctttg ccgctataaa gaaacagctt cgctactttg ctgggagaca gatcagaaat 720
 gtggcttcgc cagctgggaa cctggccact gcacccccga tatccgatct caaccagtt 780
 tttgtcgcta caaacacgac tcttgtcgcc aggtcgttag ataaggaacc gagattccaa 840
 tgacacagtt cttcagaggt taccgatcta cggcccgctc cgcagacgct atcatttcaa 900
 gtctacgtat acgtacgcat ctgagaaagg cgagtatttg cgggcttata aacaatctaa 960
 gaggaaggat gatgacattg caatagtga tgccgctttg cgggtctcac tctcgccatc 1020
 gaacgatgtc actagcgtga gcctagattg tggcaggaag gcgcctcaga cggaatctgc 1080
 gcagaacgcg gaggtcttcc tcaccgggaa gaacttactg atcacgtaac tctaagaggt 1140
 actactgggtg ctttgggagc aggattcaac cctgaagttg gtggttccag gcgagatggg 1200
 gacttaccaa atgtcactgg atcttggatt ttttaccag acctactatg agcgctatgt 1260
 ccgaaatcga ggcttgaga agtgacctga ataacagtgt ggccactg 1308

<210> 2342
 <211> 1517
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2342

gtgataaagg aattatggac ttctggagaa ttcaacactc cgagcactaa attcgctgat 60
 actttaacct agccgcttgc gtagcccagg gaggacgatt agtgaatgac ccgcgaaaga 120
 cgttcggggg ctctgggctg aggcgttacg aggccttcaa atgggtttat gctagatgct 180
 ggctctagtt cccacctgct gagacacggt atctgcaccg gtataggatt ggacgaccgg 240
 ttgtaagatg tgctctcaag caaagcttcc cttccaaca tcccggtcc ttgggcccga 300

aggctagcct actcgagact ctogtcaata ggcctcaatt gggttagcgc gccgtctcat 360
 gagcttgatt tgctgcgtta tgaggaatat gccgaactcg gtaatccgtg aagacgcttg 420
 tccactaggg gcttgggctt ggacttgggc atgggaggac tatgagactc tatcagcgaa 480
 aggttccctg gggccggcct gcgcgattct gaaggcggaa atcaatagtc tactatgggg 540
 tagtgataaa cagccagcaa tttcttggtta ggtgtcctcc cacctataac ccaacttctt 600
 gaaagaagcg tcctgggtag caaaggaagc tggttaaacg ggaaataaaa aaccttcggc 660
 ttttcgagtc gcgactccaa ccagacaacg gcgttatctt ggatccgtcc ttttccttag 720
 agggatattt tagaagcatc tggaaagata tggaaataat gatggagcta aagatgggtca 780
 aaatcctgta tctgggagcg aactgggctg ttccagatcc ggaactggcc ctgctgacct 840
 gccagaaca tttcttcttt tcctctatgc ttgacatgaa tagagtcacg cactcacgat 900
 caactctgct cgctctaaga gccaacact gaacaagagc acgtccagcg atgatcccta 960
 ctgagtctcc cgaggacctg ggccacgagt cttcacacta ccaaggcctt ggccgcaact 1020
 cccctccacg gtcagtggtc tgttcccagc tttcccacaa ccccgggctc tcgaaaatgt 1080
 cacctcctgg tgcgttatgc tctcttcgtg ctagcgtcgc gtgctttccc gttctttttg 1140
 gactctcagt cgctcatctc tcggaagaaa tctttgcgaa agtggggttag tgtggaccct 1200
 ccccgaggcc ccgcgcgcyg atataaattc tctatcgatc catccacggg ctctgagac 1260
 ggctcgcttg acgcaaaaac tactacttct tttacgggtg cggatgctgc ggcagtccag 1320
 ggtttccaca aaatggagtc ctccaaggct caggatgtga tcactccggt caagaatgaa 1380
 cagtcgccag attctcacgy gtcgcgcgac ccgatggcga agggcgttgc atacgcgagg 1440
 gcagctgctc acaggagcat agatgaccct ttacagggga tataactctt tcccaagggt 1500
 tcatgtggag cgtatta 1517

<210> 2343
 <211> 321
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2343

ccccggttaa agaaggaatt gatgctaagt tacgaagaca gtgggttatc agttaactat 60
 aggctaattc tttgcggggt tgaagatagc gatgtcttga gagatgaggg aataagcgag 120

gggagtctgg acgctgtgct ttgcatcaag gtgcgctgtg cggtaagga tccaaaaagt 180
 gtcataatg aggtgtggaa gttattgaag cctggaggaa ggtttatatt ctgggagcat 240
 ggagagagca gagactggtt gacgggtaca gtgcaaggta tgcggctctc cctttccggg 300
 gaacatggac ttaggaatga a 321

<210> 2344
 <211> 2772
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2344

gcagcgaccc tacctatatg tatggattta gatctgacta gcttacagcc tcatccccct 60
 ggaccccagc ataaagtatt ttctcgacgc agcgaacctg ctcaaagcaa gcagcacact 120
 acagttcacc cgggtgatcc cgggcttctt catggactac tggggcatgc cgcattgtgaa 180
 gactcaactc tcaccaatga cgatcgagc agacatggca aactgcgagg ctgctatacc 240
 tgggtgacggg aacgacatta ttgccatgac atattcctat gatatggcga ggttcattgc 300
 gcgcttgctt gaaagcgaga aatgggagga gttcagtgtt gttggtggcg atgagactac 360
 atataatcag ctggtcaaga ttggggaacg ggtaaggggt gagtttgacc ctttccgac 420
 tcaaattgtt cacttgggaa ataattgtaa gacacttgct gatatcgata ggccgcaa 480
 tcaaggtgct atatgatagt gcggacaagg tggaagaggg cgctgttact gttccactc 540
 aaccggaggg aattggatat agcaaggagg agctggagga gacgactgcg ctaatggata 600
 gactcgtgat cggaaggtg ttgactttc cggctgctat ccggtcgaga aacgtcgagg 660
 gtctgggggtt ggttaaagta gaggatctcg tgaaggaggc gtgggggggg aaagcgtagc 720
 tcagcttagt cgggtgataa tagttctccg tataaacagg gatttcagta tcgtagtgca 780
 aagccgcaac gccgcaacgg cgcaccgctg tacaatacac tcgcttcgta ccgcatctga 840
 agtcggttgc ctagaacgtg gcaatcagcg tcttaatttc gtccatcaat cttccatgat 900
 ctttttgatc ggcacaaaat agagcccgaa taaccaaattg ctgctcgtt acgtccgcaa 960
 catttgctgt ttaaggatcc ggtcccttcg aaggacgaga accgcgtact gttgggagtt 1020
 ctcagctgta tagttaacgt acgtaccccc taaggtgagg cgctagatca cagagttact 1080
 ttatgcctct actttaagaa attgtcgtg actcatcttt catactgaca agcttcgagc 1140

tcctaaggct tgttttgccg atccgacccc tttggtgaag acccagaagg tctccaatga 1200
 cctgcagttg ggatggaact aactaaataa aggagctcta tacgataatg actgggtctgc 1260
 tcttatttct ttataacagc ctgactaaat attctctttt tttatatgtg cctgagacga 1320
 ataggatttt ggtttaaatt taccacaaga caaaattcgc cgtgttgcat tgccgttaac 1380
 ggcttgccgc acgttaatct gactggtcga gccgcatact cgagccccat tggctcgtgaa 1440
 ctaagatgga gtaagcatcg ttgtatcagc agaaacaagc gcattaagat tggaagtccc 1500
 accacaaacc ttagtatgac ctcaagcttg gtatttctag ctaaccgatg tggattcaaa 1560
 tctcgtgcta gataggtata tttgcgggggt cttccgctcg cgtggtgagc cctatgtcca 1620
 ccggagacgt catccagcat ccagcctata gaaccgttga taccatttct gccatgattt 1680
 ttgtttccaa ggttgacaca tggcgcgcct tatttctggg ctgctctgac tcagtcccca 1740
 gtaagcgagc ctggaaaact gaggctgcac cactgattgg aaaacggtct gacgtcgctt 1800
 gtgtgtccgt gcgttcctgc tgtggttccg tggcaggtgc agtgcgctgt cccggactcc 1860
 aacgcgacac gttgaaattc tttctgtctt cgttcacctc gctatatattt cttctaagcc 1920
 ttccgtcacg gtctgtatgt gacgcagtga tacctacaat atttgggttg gcatggggag 1980
 ctccaggcca ttacaacctt ctacacctgc gatttgtcgt cgttggacac cgtatgggaa 2040
 tgactgaagg gactaattcc tagattgtgg gtttccatcg agacctcact ccggttgtgt 2100
 tcaagtccgt tgctgacctc cttgaatgtt cctagcacct ggggtctcag aataatgtgc 2160
 tcgcagacga tggcaagcaa caccgaacag gttgctagtc cgcacgaacc caccaactgt 2220
 gcgttcgccg agaaaaacac ttcttgcgag tctgtatca tctctcgact ttcaaatgg 2280
 ctctggctgt gccggactac gccgcctcct ctcgctgaag agaacgcgag acctgtagag 2340
 gatgagagtt ccaagaacct attcccttgt cgcgcagtga gggcttcaaa agtgatatgt 2400
 gaccgtcaga caccgcgctg cgggcactgc ctcgatcagc agattctgtg cttctatgtc 2460
 gagccgctgc ggatcacgat gaagcgagcg aaacaagcga ggcagctgga ggcccggtcg 2520
 gaatcggtta catcatgctc gtgaacctcg ccagataacc tgatgattta ttattatccg 2580
 gaggaactgg ctttttcgct tgaggttggg atcagttgga ctggtgttat tccagctttg 2640
 agttgtaatc atattctact cttccatga gaaagcagaa gctcgatcgt aggcctcctg 2700
 ttactgactt tacgctcaag atgcactgcc gactattacc aatagctggc tacaatgcct 2760

<210> 2345
<211> 3189
<212> DNA
<213> *Aspergillus nidulans*

<400> 2345

acacaccctt tatctgctat accccctgct tggccttga gtgaagccga agccgagcaa 60
ccgaacacga ccacatatcc aaaacatagc acaggctgtg ctggccaatg tacagacaag 120
taggggtggat attataaact gctcgaggag caaggtttac tgaacacaga agaccgttag 180
ataactgaga acgctctctg aatcggcaat gatagtgcaa gacagacgat aacaacaca 240
agctgagacg atcaagagca aatgaggaga gcaaggctgc gcaatgacga agacaacaac 300
agagtagaag cagaaacaga accttgcaac tccttggtga tgagaacaat ccgcaagtac 360
tgacggggca aggaaacact tagatgctaa aaatgccaca tagatacagg actgccctgt 420
aaagcgcgag gttttatcca tcggatgcca aaacgccttt ctgccatcat taacttcacc 480
acgacactcc gagtagtatac aaggcggccc gtgagtgggt caggaaactcg cgcggtgctc 540
atatactcag aaacagacga atctagaatt aaatggctca tgccagggat gcagtcaaag 600
cagtgcacaa atagagacaa ccagaaaacg cagaaaacaa aggctcaaatt tcgccgttcc 660
aaagccgtag caccataacg agtgatggga gcataatgac aagagtagat gtaaaatggt 720
gaaggagggg cgctccgaga ggtccagccc gttcagattc aactggcctt gacgatcagg 780
cagcaggggg agcggtttcc cagggtccat caatgatgag aaatatagaa caaaataccc 840
ggcccttccc acagtgtcca tctgccgttc gatatcttgg gttcgttctg aaaaggggaa 900
agacgcgaac tatgacagta tgaaccacga ccgaccccaa gccctcccga acaagaaaat 960
gactgaagga ttgaggtcca acgtgacaga gatattaagt agaattacaa attccgtaat 1020
cagaacagta gtgcgtcaca ccattcaacc ttgtggtaga tgagcaggca tgacataggt 1080
ggggacagca gaatgatcac ctaccgcagc aaagtgtttt catcaccttt tgcacaaagg 1140
tgggctgagg ctcatgtctc gcctgctggc cgccaggggc tggctgggtc ttggccgggg 1200
tcgccggggt gcctatccga tgacccgaga tgttcgcgtt cgagttctga aactgtgcca 1260
ctgtcgaggc agctggtgtc gtgtcgaatc ccccgctctg acgttttggc gggatgccgc 1320

ctctgacgtt ttgcggctcg cgcgtcttcc cggctccggg ctctgcagga gacgggggcg 1380
ggggctgcgc ggcgtttaaa cggctctgcg tcacgccggg tctttggctg ttgcggatct 1440
gctggccgtg gaggtccctg gcagaagtat gcatggcgga gttctggaga gcctgctggg 1500
acgaatagga cttgtattcc caccctcgac cgttggtcag tttcatccaa tcgtactctc 1560
catcctcaac ttccccagcg ttcttgaggg cctgagtaag aagatcccg caggtaatcgt 1620
agtcaggggt gtcttcgaaa ccaagattgc gcacatagct aaggtaactt gtgaattctt 1680
ctagacgtgg tcagcacagc cggggagggg tcgacgatga acaaacctg aaatccctcg 1740
cagagtccct tgatggcggg ggtctgcttc ttctctccaa tcttttcgta cttctgtttg 1800
ttggtggcag ccttcaggcc ctgccagggc aagccacctc gaaggaaata cataaaaaacg 1860
tggcccaagg cctcaagatc gtctcgtcgt gactgctcgc gtcccaagtg ggtgttgata 1920
ctcatgtagc gcgtgtacc ggacagcgac ttctgctcac ggtatgggat atgttgcttg 1980
gttttgggat cccggtattg cttggccatt ccgaagtcga cgacgtggat aacattggcg 2040
gccttgaggt tcgggcgacc gatgaggaag ttatcgggct ttatgtcacg gtagatcaga 2100
ttcttctcgt ggattgtttg aactcgagag agctaagaaa gtcaggaacg ctttctctt 2160
ttctcaagtc agcatggaaa actcaccatt tgtttggcga ccatgacgac ggtcttcaca 2220
gagaagcgtc ggttgcagtg atcaaacaga tcctccaaac tgggaccaag caggtcaatc 2280
acgaggatat tgtgtaaacc ttcttgcca aagtagtaga cattaggaat gccggctaga 2340
ccagtcaagt attgtttcgt tgcattattg agaacactca cggcatccga ccaaaatttt 2400
gtacgttcga tattcatctc gcaactgggg agcgtcactc ttccgaggtt cctggtgtcg 2460
ttagcttttt ttaacttcca tccaattttt gggacgtgac ttacgaattt aatcgcaacc 2520
tgctgattga tcaggagatt cgtgccctca aagatcacac caaaagacct ttcaccaatt 2580
ttctttccta ctctgtagtg tacaccact acattggacg atgaggaagc catgtctgcg 2640
cggacgatgc gattcgaaaa ccttaacggc ggacgaacgt gcggaaactc gacgggctgc 2700
aaacacgtga aggctagcag tcgttagcgg aagacaaaac aggaactcca cagcgatata 2760
aaggaaagggt acatgagatt ggtggcttac agagacgcc gagattctat gctataccat 2820
tcatgcaaca acggcccacg cgtagacgta caagaccag gaacttgaag agactaagcg 2880
cagacaacag caaaaatcgg ggcaggcttc tcgtgaaaca aaaccgaagc aggaggacga 2940

cgatgtatta gggaggaccg tagctaatacg gagcgactcg atcgagatga gttctcgaat 3000
 cagggtgtgg acttggggtc gatatcgacg gcaattcggg gacgggtcaat gaatataagg 3060
 gagaactccg tatagactcg gagtggaagc tcccaggaac cttgaaatcg gcaccagctg 3120
 ccgcgcagtc tggacaactg caagctgcag tggttgaatg ggtcggggcgg atgggaagag 3180
 agtgagtga 3189

<210> 2346
 <211> 1560
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2346

agacggcaca agaaggaatc tacacatttg cccacaatta tattgttctt tgctttacct 60
 caatcgggaa ctgcgtttac tcatgtactg cgccgtgcat tcccaagcgc gaagaccacc 120
 tccgacgtcg ccgccgacgt tacgcagatt tcgatttcta cgacgactgg gataacgagg 180
 atgtggaaga tacgattcta ggatggggga cggacgagct cgaccgtctg ctggcagggga 240
 gcgggttagc gcggggaagc tctgagcagc ctgcgagaca aaggaagatg agctatgggtg 300
 ctgcgccggg cagtaggaga aaaagcggac tggtgatacc tgatgagcgg gatgatccga 360
 ctgtcattcc aagttcttcg tttctgggat ttctcgagcg gtttccgtgg agatttggtg 420
 cgcgagggtt gaagtacaga ccctctgctg ctgacttgca ggagcaccgc gcggggctgc 480
 gccatgtaca cgaggaaagc ccactgattg agtctggtga agaagtggac gaagagacgg 540
 ctaatgggtg caacgggcgt taccgaagct ctacacaatc atcgcgtgaa acggcgaaact 600
 cgctcagctc ccgaggtgat ctctttccaa gcgatgaaga agatgcgata ccgcttgacg 660
 atgaattcgc catggcgctt actcgccgag gaacagggct agagtcggac gaccaggagg 720
 gaggtaagcc tgagagcatg aggtctgcgt cgggcacatt cagtatcgca cctaccacat 780
 catcaaagag ctcaggaag cagaaaaaga aaaagcgaac cagcagaatg cggtcgcctc 840
 agagttcata tgtggaggtt tcacgcgaca tgccagtctc aattgaggat ctcaagaggg 900
 aggaggagca ggctgcaagg gaagaggaga tggaaatcgt acggaaacgg ctgcgtgcac 960
 gacagttagc tttgagccgt ggaatcagta ttgaagacgt tagggatatg tcgccaatat 1020
 ctgatagcaa gtatggagta tctgagctaa cttaccaga tcgcttccat acctccatct 1080

ccatctgcag gtgtaccttc agaagctgac gcttccgaca accctcccaa accgcaaatt 1140
cgaaacgaag tccatcacca taatgccgta atatccgaag aacacctaata atcggaatcc 1200
gatttacgaa cagaaccatt tccgcctttg cccgagtctg atgaaccacac ttctcccttc 1260
caggttgacc aaattcgaaa ctgcaatgtg ccgcttacgc acgtagaacc aacgcctgaa 1320
ctcgatgttg ggcctcaag ctccacgcat aatactgata caacttgagg tatgagcgtc 1380
agggcgggct ttatttcaga gcacaggggt gccggcaatt ctggagtgcg cacgttcagg 1440
aaactaatta acattcactc atgataccac ttaacttact ttattctacc tgcctttctg 1500
tacagatcga ttcggttacc gttatgattt tatgatatga agattctact taatggagct 1560

<210> 2347
<211> 1257
<212> DNA
<213> *Aspergillus nidulans*

<400> 2347

gtctcttttt accttttcgg aactcctatt tccctttatg ccagcgacta cggcttccac 60
acaggatacc ttctcttccg aggccacttc accgcaaatt gccgggaaag caacttctcc 120
atccagaccc aaggcggaca agcctttggc tcgtccgtct ggctaagcgg tacttaccta 180
ggatcctgga cgggtgataa tgactaccaa gattacaatg caacctatac ccttccctct 240
cttaaagcag gaaaagaata cgtgtttact gtgggtggtg acaacatggg cttgaatgag 300
aactggatcg ttggtcaaga cgagatgaaa aagccccgcg ggatacttaa ctacgaactc 360
agcggccacg aagccagcga cataacctgg aaactaaccg gcaactttgg cggcgaggac 420
tacgtcgata aagtacgcgg tccgtgaac gagggcgggc tgtaacccga ggcgcacgga 480
taccaccagc cctaccgcc gacaaaatcc aaggattgga aatcatccac tcccctcacc 540
ggcctctcga agcccgaat aagcttttac acagcgtcat tcgacctaga tatcaagtct 600
ggttgggacg ttcccatata tttcgagttc ggaaacagca caaccctgc cccagcgtac 660
agagtgcagt tatatgtgaa cgggtggcag tacggcaagt acgtgaataa tatcggaccg 720
cagacgagat tccccgttcc tgaagggata ttgaattata aaggaacgaa ctgggttgc 780
tgacgccttt gggcggttga gggtagcggg gcgaaattgg atagctttaa gttggtgcat 840
ggaataccgg ttcggacagc tttggatggt gaggggtgtg agctcccacg ttatcagctc 900

aggaagggtg tctattaggg tttactgtag aatttagtag tagagtgatg gaatgaacgg 960
 tgaagtgaga gtgtattaag gccggatacg tagatcgacc cgaagataga gatgaagtgg 1020
 tgtagagcag ggatccgggg ccattcccagc caccgaataa aaccagcaca aaagcgcata 1080
 taaccaacca cgcgcccgat tccaatetta gtatcacccc atcattccga gtcaaacaca 1140
 cttcatgttt caaacacaat aatccaagag aaaagaagct caaacacaaa ccatgccacg 1200
 acatacacct gcatcaaggc agacaaaacc ctaactacaa ccattcgata aaaagtc 1257

<210> 2348
 <211> 1086
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2348

cttcttccat atgggtcaaga agtcgctgca ggctcggcca gcattccttcg gacacataga 60
 aaatcggtat ttggagctcg tacttgtact gtggctgcaa gggagtatct gcatacgaca 120
 gtagctttgg tattagtttc atccattgca tgtagcctgg caagactcac actgccgggg 180
 cctcattgtt cctcccaacc gtcaagaata gaagcgagat caattgaaaa cagtcattcca 240
 atacgtaatc cactgtatta gaagcacata attagcacaa atcgggtcaa tttgctttgg 300
 ggggccatgc tactaacagc gattatgggc cagacgacgg ttttggctctt tccgaacagc 360
 attgagcttt tctatctcct tgggtcacctc ttcgtaaaga ggaaggacat cagcagatct 420
 aatatacgac gatttgtctt gtttcagcag ataaagcgcg tcgcgaatgc gaagtacaga 480
 ttccaagatc ggttgctctt tcggatcaag cgggggtttgg atggcggggg attccatcac 540
 ggtcgcagga atcggaagta taggggacaa actagaaaag tgtagatcaa tgggagacga 600
 gttattggag atcgacagat caatgagaaa aaagaaaaac acggttctgc accagctcca 660
 gatattgtag cagaggtact agctacgacg tatagaagcc cacctattga tcgctcccag 720
 cgctgacctc ctaggtatga tgtcgggtatt tcctattatg gagtagcgta ctggtcacga 780
 ggagcgtgct gcggaagaag tcacgggact tgcgctggcg ctagactgcg attggaacag 840
 ccctaagcga gggctcggcc gccaaacaca caatttccgc gttgggtctg gctgttggct 900
 gtccccgttc gacttcttca aagccagtcg ttgataaaaa aaaggtcttc ccgtccttcc 960
 tctctctcct ccccatccc tctcgagact ttgtccagtc caacgacaac catcgacacc 1020

atgtctaccg ccgagctcgc ctgctcctac gcttccctca tccttgccga tgaaggcatc 1080
gagatc 1086

<210> 2349
<211> 2369
<212> DNA
<213> Aspergillus nidulans
<400> 2349

tgaattcact ccatgtaagc tgccaatact ggtatctcag actcacgagt cgctcgtctt 60
cctctgaagt ccatgtctct cgcgagctct ttcccatcgt gtcatttttc gccgttggtg 120
caatactgag taagatgtag gaagtagtga aggctaaaat ttcttcttgt tgtgtaaatt 180
tatagattag atgacacacg ctgttcagag gctgcagatg gcatgggaaa ttatacgaat 240
agtatttcga gccaatcccc ggtgatgaaa actctgcttt tttgtgctag tcagcccagc 300
ccctctactg cacacggtct gcctctgttc gaagtacttt gtgctcggac tcgagccaca 360
gccctgcccc gggcaacacg cctcactaac aggggttgtt gccggtcagt ctctccccct 420
tttttttttg ctggtatccg gccaatcagg tcatagaatc aagaagagca cgtaatgata 480
ttgggatact tttctaacac cgcgattttc cgttactggg tctagatatt gatccggccg 540
tcgaggtatc gtcagcatta gagccttgaa ggattaggcc ttgattcggc agtcagagca 600
actagctaca ttggtggtat catttaattt ccttgattgt ctacagagct agaagaccaa 660
ctataaaaag caaacaatgc cctcgtacct ctttaacatt ctgaagatgt caggaaaccg 720
tttcactttg caatccctat atctttatct tagcctccaa attgctcaat ctgtcaaattg 780
cttttttttc cccttcaccg gcttgcattt tgtcaaacac tcggtgagca tcaagcgact 840
tatggagcta cccctttgga tccctttctt gccaaaggacc gcaccaacct tttcagatac 900
ctacataagt cttgccccgag ttaactgaat ttacttaacg tgctctaatt ttaatactgt 960
attactctat cactaggcac atgtattttc ttgcttggtt ggtggaaggg tcaaggtgag 1020
tttaaggcag accgcgtcac gaggctctaa tagctggggc tcccagattt taagggctcc 1080
gaattcacia agggtcctca aacaaatgtt ccctgtagtg attgatgggc acggcaaattc 1140
ccgcacatct cggacaagta aacaccgagg ccaagtcaca accgagatac tcgccaatca 1200
gcttggtata tctctggggg gaggaacaag tatggccggt gttccaccaa tgaccgcaca 1260

ctacggactt cgggcttgca gattacgtgc aggtagagga tctgtgaggt atcggctaata 1320
gtggacttcg attaccccag gatatacccc gcatgattgt aaattgattt catctatggc 1380
taagtaagat tgcctgacct cgggctattc tagcatgggt gccgagtacg ctccatgcac 1440
cccatcttct tatattggcc acaaactacc ccaagcacca agaatagaagg agtagcctta 1500
cgtgtcggag tcaattggac aaaagaatgt ttgcgtcaac cctcaggaag acatttgtct 1560
tccttggact ggcaacctac tcggccgcag ccctaacgac cacctcaaat tcaaccact 1620
ataccatctc caactcccgc ttctcagtcg ccgttgcaaa atccaacggc catgttgtcg 1680
atgcaaatct cgacgggcaa gaccttctcg gcccctcag tggcaacagc ggaaaaggtc 1740
cctatctcga ctgctcctgc acaccgagg gcttctggac ccccggtgcc gaaccagcgc 1800
tggtgaacgg cacagactca accggaacac cctacgtggg agtgattatg accgacacct 1860
acgagacaac taaccagaca ctatctcaat atctattcct ccgcggtgaa gaaacaggtc 1920
tgcatgcctt ctacagagta acatactata acgagagtgga ttatttcctc cgcggcctcg 1980
gcgagctccg gacgctgttc agaccgaata caaatctctg gacacatttt tctggcagcg 2040
aagggaacta cggccctatg ccgctatcta gcacagagaa gatcaccgtc caggacgcat 2100
caacttacct tggcgataca actgacgacc cttacgtgtc gcagtacttg gactacttca 2160
ccaaatatac ccttaccgag agctgccgag atccacgatg tgcggggccc ctttttaaag 2220
gggtccaccg gggggggggg gaaccccggt ggccgcgggt tgggagcaaa ccggggggaa 2280
cacacacggg gggccccccc tctcaaacat attggggggg agcggggacc caacaccact 2340
tctttgttcc aaggccacc cggcatcat 2369

<210> 2350
<211> 2127
<212> DNA
<213> *Aspergillus nidulans*

<400> 2350

aaaataaatc atgtatattc ccactacatc ccattcatac atgagtataa aaatccgtga 60
ttgcgtagtg gcaggcaaca agacgtagca cacctcgaag acaggccgga gcctggtgcg 120
gcttaacaaa tcggggcgtc gtccggaact cccacacaaa gtccaaaatt cttaccttct 180
cactccgccc tcattctctc attcttatcg gataccactt catcggggaa gtgcaaaggg 240

agtttctatt caccttgcta ttgactacc taattgtcga aggctactgg ctttcccttg 300
 gccagttttt ttttttgcca cgactccgcc cgaccgccgc gagtctggcc gaagaacctg 360
 atattgttcg taccgcacaa taagccaccg aaaattgtac aagtgtgaat tagatctagc 420
 taacatctct cagtgatttt catgttcagt tctttcaaac tacacggata acgccttgct 480
 aaacgaagaa accatttggt caatatggcg ccgaagaaga agggaaacag gaagcaggag 540
 gaggattggg aagccgaact tggagagagc attcctcctg cgggcggtga cagcccagct 600
 caggaggaag ctcccggcgc cgatggtgac gatggggagg ctggtggtgg tggcttgctc 660
 gccgctttga gaaagaacaa gaacaagaag gccaagaagg ggaagccgac aaacgacttc 720
 gtcgagggcg aggaccctat tcaagaagcc aacggtgatg cagactttac tagcaagcaa 780
 cctgaagaag gcacgttcga cgaggatgat gtattcgctg ggaagaagag caagccgatc 840
 aaggctgcgc ctccgccacc agcacctgtg gatgaggatt ctggccctcg cgtgaaaact 900
 aagaaggaga aggagagggg gaagaaagag agggaaaagc agcgaaagag ggaacaggta 960
 tgcctttttt tccccgctag taggcctcgg ttgttttttg ttgactgaca tgcgttatcc 1020
 aggccgcgaa gaagaaaact accgaacca aacaggctga acaaaagaaa ccagaaccga 1080
 agaaagagga acctgttgct gcaccctcca cgcctgcccc tgcccctgcc cctgagcctg 1140
 agcctgccgc cggtggcaag aagaagaaga tccccgctca cctggctgca atccagaagc 1200
 agcaggaagc tcttagaaag cagcgcgagg aggaagaacg ccgtctagca gaagagaagg 1260
 ctgcagaaga ggcgcgcgca ctccaagagg aggaagaggc gaggaagaag gaggaagctc 1320
 gccaaaggag gaaggaaaag gagaggggaa agaaggaaca attgaggagg gaaggaaagc 1380
 tgctcaccaa agctcagaag gaagccaggg agcgtaatga gctccgcatg aagcagatgc 1440
 ttgctgcagg tgttggtacg gttgctgggt tgcagaagga tcaacctgag aagaagaaac 1500
 ccgtttacga gaacaaaaag aagaagggtc cgaagaagca ggatgaagac cttgaggctg 1560
 ctgctgctcg tgctaaggct cagcgcgagg cagaagacga gcgacgacga aaagaggagg 1620
 aggagcggaa agcaaaggct gaagctgaag ctgccgctgc cgctgccgct gctggtgatg 1680
 aggagagcga gctcgacgat tgggagaagg ctgctgatgc cgaggagggtg aaggatagct 1740
 gggacgcacc tagtgatgat gagccagaga agcccgccgc taaaacgat gaagagataa 1800
 ctctaccaga gcgacctgca gctaagcccc ccaaagagga agcaaatgag gagtcttcag 1860

aagaggattc ggacgaatct gactctgatg aagaagaaaa atccgccgcg caaaaagcaa 1920
 tcgccaacg gaaggcggag gctgctgagc ggaggaagaa gcaacacgag gaagcttttag 1980
 ctgctcgttc aaaggacaac ttgcgatctc ctatttggtt tattcttggg cacgtcgaca 2040
 ctggttaagac taagctgcta gataagattc gacagacaaa cgtccaagaa ggtgaagcag 2100
 gtggtatacc caacagattg gtgcaca 2127

<210> 2351
 <211> 4174
 <212> DNA
 <213> Aspergillus nidulans

<400> 2351

catacaacgt tattgagtca cagcaacaaa cgcgagtgtc tagaacaata aggggctcgt 60
 ctgtagtttt aaaaccccg ggtctccttg ttcttaaata cctaaacatc tggggattac 120
 attaattggt tccccctggc cacgccagac tgcagtgaat tgcacagtga ctggaccact 180
 ttcatagaga gatggtggag gataaaaggc agccttggtc tggagtgcg tcaaccagtg 240
 ttttcattca gcccatgtcc agtaccggca aaaatccttg gtggctcttc catcggccat 300
 ggccgaacct ggggaaaccg tcatgggccc gccattcggc agctctcctt tcagaccaag 360
 tcctgtgaaa gtgttgatgc ccgttccgcg cctgccgttc gcacctgccg ttggcgccta 420
 ccgtttttta cagtctgcta gtgacgaggt cacgagtgat ctggaataac acgtgatagg 480
 tctagtggcg tctcttctcg aagtctctcg aaacgactcg atctggagga tatgcgtgtt 540
 taacctggaa ttttctagtc gcatgcctac ttccggagtc ggtacaagca caaagaatca 600
 gatgggctgg tgtcatcgga tcatgatgcg agatagacga tcacccaccc gttcaccagc 660
 tatgtctgcc attcgctctt gtggatgcct agatggccca tgtccgtcct agtctgccgt 720
 cggctctgat tgatgccttt gcccttgcca ccactaggca gactcaacgt ctgattgttg 780
 gtatacgata cgactaatat gtacgctcga tatagacatg ctggagtctt gtttgcttac 840
 tgcttactac taacggctta ctacttattg cttactactc gggactaccg ggcaattgtg 900
 taatgcaa at gcatagaatg atatcatcta tcggctctat ctacaacat gacatcccaa 960
 ctgccaaaag ggtgttcgat ctgacctaa gtcgctcaat atatgcactt agatgcacac 1020
 tcacgccttt gggcgtaaaa taaacgggtg ctttaacgcc tcggctggcg tgcacgctt 1080

ctccggattc agactgaggc aacgacgag cagatcgaca aacaaagcta gtccttttgc 1140
 ctcgctatct gtcacccccg tgtgcccttg cccatcaacc gggttttgag atcgcgcgtc 1200
 ggcttcttga agtccatgat gcgggtggta aggcggccgg tgatcttgtc ctcttcagtg 1260
 ctgtggaagt tggcatttcg tcgaagtgga ggtgcccag agaccgcgc cgcaggagct 1320
 tcggcgggta tttgccacgg cactccatga tcgatttgag catctggttg ttgtttcgtc 1380
 ccgtgaagag aattttgccc gtgtagagct cgaacagtgt gcagccgac gaccacatgt 1440
 caatggcgta gtcgtagggg atgccccaaa tgatttcgg tgcccggtaa aatcggctga 1500
 ccagatatgg agtaatctcg ttatccgaag ccagcgacgc ggaacccaag tcgcacactt 1560
 tcagtatgtt gcgctgctcg ttgacaagca tgttgtcggg cttcagatcg gcatggagga 1620
 tattgcactt acgcatcaag ctcaatccca ggaaaatttg ctgggcgtac gtcgaattg 1680
 cagcgaggtt taaacctaca tctcgccaa acttcttcaa cacctccgc aggttcatgc 1740
 tgaggttttc gaagaccatg cacaatgac ctttgtgctc gaagctccgt tcgaacttga 1800
 tcatatgttt cttgtcctct ggatcggtt ctcggagctt ttccaagatg ccaatctcct 1860
 tcaaccagc cttcttcatt gtgtcattct gccggataat ttgattgcc acaacgttac 1920
 ccgtctttga atctttcgct cgaacaactg acgagaacat tcccttacc agattctgtt 1980
 gcacatggta acgcccgtcg atcaactcac caattcggag gttataatat ccttcaggat 2040
 cateccaatt atccatcata ctaacgtcga gctccgcgc ttggggcaca gcaatggcgg 2100
 atgcgtgcgc cggcttcgac gtttcctcgg tatcttcagc aaacatgtca tcgtcatcct 2160
 cagcaaatat atcaaatgaa tcctttgcct ctggctcctg ttgcgacggg gcgtcaggca 2220
 aaagcacgtc ctgcttggtt gttttcggtt catcatagct cgcggccgag acatcattac 2280
 tctgcccccc gtgcctttct ctttcgggtt tcatgtcaat agtagggctg tagtctgcag 2340
 ctgaagggtc atctttgtca gcgccatcca cggcaccatc tttgactaaa tccaagtctt 2400
 tgccaatgct aaagtcggga aatgaaccgc cgtccggagt agccgctgac tctgtacatg 2460
 ttatcatacc gctactattc aagagtgaag ggaatgattg cttacctgct gtttcgttgt 2520
 taggagttgc tgcttcgctc gtgggagtag taccctatc accaccaaga tgcagtgtt 2580
 gaatgcgcag gggcgctgcc tggctcttat atttagcttt gatggcttca cgcggtttgc 2640
 gccgcgcctc gagctgggca gcctcatcaa gaggtcttct atgccgttca gcgacatctt 2700

ggccgttcat gctaaagcaa tcagtataat tcaatttaca gccgggggac gtacctatca 2760
 ccatcagagg tagggagtat agaagctgcc tgaacctggg ttttttgagt tttagcattc 2820
 tgcctagaat ctcgagcgac actcgggggg ttcccccttt cgctcactga ctgttcagta 2880
 gaagaccttc ttttgctctg cgatgctaca ctgccctctc gccgcgattg ttgcgactcc 2940
 cactcgtcgc cagagtactg tttgcgcttc cggacttcgc ggtagggcga tcgactgcgg 3000
 gtgcgtgggc gcttctccct tcgtcgatca tagtcatcgc tgtaccgaag gtcgcgaagg 3060
 tggttgtctt cgcggtcgta atcgtaataa gacctagcct gtctttgtgg gtacccatca 3120
 tgtcgatggc accctcgtcg cggcgggtga aacgtccgtc cagagtgtct gtcgtcatca 3180
 taaccatacc aatagtcatc atggtcgtaa tcgccggccc gtcgacgctt atacccctta 3240
 taatctcggg acggagagcg tgagggcgac cgcgatctcg tccttgccct agatctctga 3300
 cgacgaggcg acctggtcac cgaggcggat gaactaactc tggtagggacg gtcaacgctg 3360
 ttgtcattaa gaagagattg cgacgtagtt gccttcgtct ccgaacctga ttcgataatt 3420
 tcgccctctg aggcggtcga tgacctgcgc gaggacatga tgagatcgtg atcaaaagac 3480
 gcgatctttt tttttttttt ctttcaggat tcgctgggca gcttcgcaga tagcagaatg 3540
 actecggtta gcaagaatgc ttctagaagc gggcgtttgg agtgattgag aaagtccaac 3600
 caactgggta agcactgcct atcttctcac tatcgacaa ggtagaacat ggagctatcg 3660
 agatgggaag gtgatgtacg ttgatatttg acgatagcct tgaacatgga atcgatgagg 3720
 agccttggac gttgaccgtc gcgtccagct cagtcacggg aaagcccggg tatagtctaa 3780
 gcccgtttga gaattagtct agccccgcag gggatcatct tgttcacttt ttccatgatt 3840
 cccatctcct tatcatcgca aaaaataaat acaaaaattt tcacataaga aaagcccca 3900
 aactcttacg catatcatca tggggtgggt caagcagaga agggtgagtc tcacatgata 3960
 ctgttgcacg acttatggac ggtcttagcc cactaactct tctatctagg cgcaagggtg 4020
 agccccctag ggggccaaag gaaagaggaa cttgcgatgc caccttgctt aagagagcca 4080
 agagcgtcca gacccttttg gcatgccgat aacatactat gggtttggtt acaaactagg 4140
 caaaggactt tgaaagcaag caggccccta cagc 4174

<210> 2352
 <211> 1003
 <212> DNA

<213> Aspergillus nidulans

<400> 2352

ccagagttgt tgggagcatc gtagaagagc gagccggcaa tcagagcctg gataagggtc 60
gagacctgtt tgataatgaa tgtggccttg tcaccccaga ggatctggta ctgtcgcgta 120
acgcaaattct tgacctgggt cataaagtcg acggtaaatg ggctgctttt gggcagctgc 180
ttcgcctttt cctctgcaat tgcttgcttg aaatcttcgg tccgtagctt tgcgtattca 240
gagtcagggg agtcgtattc gctaatacata tctgctttca cggcggattt gttataactct 300
tctaacatgg cgtcggcatt tcgggggaaa cgcgcctcga accctgaacg gatcttgctc 360
tcggttggca cggtgacacc ggtcaggaaa tcagcaacgt ttgaaccctc ccggcaaaca 420
aagccgagag cctccatgta gggcctggct tgagtcatgg gcccgtagta gatctgtttg 480
ccctcatcca aaaccagcac cttgtcgaac agatcgtaga taccattacc ggcttggtac 540
agagtgacaa tcgtagatag gcccagaaca tcggtcatgg cccggatagc cttggtccac 600
tcgagcgcg tgcctcgcgc cagaccgcgg gtactgttgt cccagcagaa gacagatgca 660
cgagtagcaa gacattcgat gatggagaca cgcttgcgct caccaccgga aacaccgcga 720
ataaattcgt taccgacctg cattcgttag gatgacaaat taaaagagat gtaagaaatt 780
caaagtacct tgggtgtcaac agtgtgcgag ataccatgg actggagcaa gaactttttg 840
tattcttcgc gataggcctc gggcgactca actccattcg gcagacggaa aggcaccttc 900
aaccgagtcg caaagtccat agtttcaccc acggtaaacg tagggaagaa gagctcttct 960
tcggtgttca tcacaatctg gccctgtcc tgtaacgcaa cct 1003

<210> 2353

<211> 3110

<212> DNA

<213> Aspergillus nidulans

<400> 2353

ctgggcgggt actcggggct tgctttgtc gggacaccgg cgagcattgc agatgagatg 60
gagacctggc tgatggagga ggggtccgat gggttcacgg ttgtctttcc ttctctgcct 120
caggggctgg atgatgtgac gcagaagggt gtgcccaggt tgcagaggag ggggatcttc 180
cggaaagatt atacgggcaa cacgctcagg gagcatttag gtttgccgcg gcctcataat 240

cagttctttg cttgataagt tgaagaacga ccgttggtgt tgggggtggt cttatagggt 300
ctgaagataa ccctaattccg gacctgagct gtggacgaca acggtcaatg gatcagactg 360
gagataacag tgggtcaaatt tcatacgata tcgatgacaa tgaacatgta catgataatg 420
ataagaccgg ctatcaatca actaactgga attagtacgt ctgggctgga attggagtaa 480
gcaatagccg acggagattc tccgtgctggg gaggagttct ccctgcaact ccccatctgc 540
cccagataac atattcagag aaaaatgtcc gttgcaagta gaaagctcta ccaaccattt 600
caatgcctca tctgccagag tcgcttcacc cgccacgaga atctcaaacg ccatgccctc 660
ctccataccc gctcccacga cgaactccag ctgtcctgcg acttctgtac cgcgaccttc 720
tcgcgcccag acctgaggaa gcggcatatg aagagaagac acccgaaca tgaggccaga 780
cgggcgaaga agaggggttca gcgggggggag tcgacgagac aatggagcga gggggacggg 840
agggattccg tctcgccaga agggagccat gacggccgtt cccagcaggc agtaacaat 900
cagactagag ggagtgaag tccttggggg gatagacggt cgccgaacat atcagacctg 960
atacagcagg ccttgaggga gccgcgaggc gataggatcg ggcaggaagt ggtggatctg 1020
cagatgctgc tggataccgg gcaaattatc aggccaccag agaacatcga gcaacacttg 1080
tcaggcttta cttcctcggc cagcctcgaa gacggcagct ggagaccctc gccgtcacag 1140
atctcgaccg cgtgcgctct cttctttgct catgtctcgc actttgtccc tttcctccat 1200
caaccactt ttgacgcga ccagacacc ctcctctgt tgetgagcat gctatctctc 1260
gccttcagat acggctccga tccagactcg gacacgcaag cccagactc tggcgctctt 1320
ctctcagccc gctgcttcca ccgcgccgc gcccttctga ccagttccag caccgcaggc 1380
cctctctcaa ccgtccaatc ctacctctc ctccagatag cctcgatgat gtacctctgc 1440
tcggaatccc accacacgct tcagatgcac tcggccagta tctcccttgc ccgcacctca 1500
ggtctcatgc aacgaacagc tctcgaaacg tcgacgtcta catcgctcac caccctctgg 1560
cacgcattcg tgtctgcaga gtcccataaa cgcaccctct tcgcccctca ccagattgac 1620
gctctctggg accagttcct ctccgtgccg cgctccatct cgcattctga gatcaagcac 1680
gatctcccat gtccgaggga gcagtgggtt gcggcctcgg cagaggagtg ggcgcatggg 1740
cagctcatcc ggggacagac ggggccacag tcgctccagt acgttgacgc agttcgacgg 1800
ttcctttccc aagagtcctt gctcagctc ccggtattcg acccttatgg cgcaatcaat 1860

atcgcgcaat ttctcatctc ctctgcgcgc gagatttccg gctggtcgac gatgacaggg 1920
 atgctaagta tcgaccgctt cggagcgcga cggtcgctgc ttgagacgct gcacccgttc 1980
 atctgcccag cccatccgtc tctgtcccca gtctcatcaa gcgcccctcc agcgcaggat 2040
 gctttatgcc ccgtacctg gcagacggcc atgctcgagc tccagatctg gtcgccgggt 2100
 catacatcag gcataatcca gacgtcgata agctcgctcc tggaacacag tacacagatc 2160
 cacctctccc cgtcgccgca gattctgtgc gaagaaataa cggctcaggc tatcaagcca 2220
 catattgact ggttcttgac ctatctggaa aacacagttg atgctgaggg agaggcacc 2280
 tgggtggtgg tgtatgcata caaggcgttc ctattgcgt ggcagcttgt tcgagggggc 2340
 gtcgaggggg cgatgagggt tgttggggtg catgatgggg atgtcatagg cgcaatggag 2400
 tgggcaagag tcgtttttgc tcggcgggaag aggtgggagg ttggacgctt agttatgggg 2460
 tgtttggata ggtagctac ggatatcaat acatgagtct aatcatgttg tacttgtctt 2520
 ttggctctta ataatccga taaaatgatg gagtttcgtc gcttcacttt cgctgttta 2580
 gctattacaa atcaataata tccagggcgg gcctatgcct catcgcaatc accacttatt 2640
 gcctacagta tacgagcaaa ggactaccta atacatctca tacctccacc ccaggccaac 2700
 catctccctt gtgactccat tottgatgac ctttcgac tcttccctcaa ctctgaatc 2760
 caggcgcga ttctccctgc gcacaatcca ccggtaaaca gtgaccgtaa tgccaagca 2820
 gacacctgcc ccaatcaacg cccgaacgc cgccataaat ctcggttcgt cgtagtaaag 2880
 gtaagaggcc cagatattcg atgtgcctcc aatcgattg accagtgcag atgccgccgc 2940
 ccgtttactc acgggtcgag caagatgcag attgatcgtc ttgtagagga ggagctgcgg 3000
 gccacggac gcaaagggga gtatcatcat gctaaagtac cgagccccca cgttcaatgt 3060
 cgccatcggg atgatgtaca ttaccacggt gatagccacg cagatcaccc 3110

<210> 2354
 <211> 2492
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2354

ttctgttaa gaagttgaga gtagttatat aattggtatt gggtataaca tcacaataga 60
 acaatatctt caccttcatt gcacttattc tattaagaaa ctgtatattt ttatcatata 120

acatagatag agagaagtaa acgtcaccaa aaaaaaaagt agaaaaagac cctggagtgg 180
 cggcagaaaag cctgcagcaa ttaggcgcac agtaacaaag tcaggccact atttaatgca 240
 gcaccatatt tcccagccct tcagcgatca gtgaccatct ggcaccatca gggttttcca 300
 ttgttgcgcc attgaatcat tccactgtca tcatcaagcc ggaccattat tcaagattcg 360
 gcaaggcact cccgagtacc ctgtaggcat aactcctgga agtgtaggta atctagtaag 420
 tggtagcaaaa ctgcggtcat cggtcggaat cgcaccctcc aggaacttcc agaacttccg 480
 aggctatgat atcaaaaatc aggagtccgg cagtctggac cttgacaaat tgatcggacc 540
 catcgagtca tttatgttta ggtaagaccg cagaaagctc agacgtacag ctgaggtgaa 600
 aatttaggtt gcgatgccga atccgagctg ctgctaggga aagcccgag cgaacccgga 660
 aaactccgta gacatgcaat gcagctcggc gatgaggcaa tttggcacca ttcgcaagc 720
 tgatgctgag cttagcgtct tgggcatcgt cgcatacaa agggactcta cggcataata 780
 gaatatgcca tatagggcaa aatacgtacg aaagtgggcc gggatccggc cttccgtgaa 840
 aatcgccggg tggatctcgc tttgttggtc tgcaacaatt tttccaggg ccaggccgat 900
 gtaggagttc catcacctga ttgggctata gtgagtcaca ccatgcgctg cagtcattct 960
 gccatgggga tccatcatgg tttcatgctg tatataagga gctaggtctc ctgagcgacc 1020
 tgaagctccc tcccctttcc cttctttacc tcatctcgtc ctttcaaggg ggtgatggtc 1080
 attcccctct ttactgtcta gggttgttat ctcttggtat ttgttttgct cttcgctat 1140
 acttctata cttccaccgt gcccttgaga cagagaggga agggggaaca tacaaaaaga 1200
 aatacccacc gaaaagttat cgcgcttctt tcgtgtatag aatgggacag aggcacaacc 1260
 gacgacgaac ccgccctcga tctcgaaact ccgtcaataa aacgctgact ccgagtgcta 1320
 tatctcctcc agccgacttg ctctgcacct cgtcctatcg gtactctctc gactgtctag 1380
 aaaaccgccc ggcctcgacc cggcactatc ggggggtgac atggcagcct tctgagtacc 1440
 tgaaaccgga catgatcatc atggagacgg agcaattccg gctctttgga ggcgagcctg 1500
 gggatgacgt ggatctttgc tatcgcatgc tcgagtattt tggaggactc gattttatag 1560
 atccgtgagt tccctcgaac tggcattacc acgcgaagct cgctctgaca tcgttgcat 1620
 ttcagtctgc aggagttaa accgttgctt ggggaagat cgttcagtga atcttgccga 1680
 acatcttgac gatatttcgt tgtgctgccg ccagtggaca tgaacaaata gaaaaaagc 1740

tctggaaaga cgattcgact aaaaatctcg acctgattcg attatccgac aaccgcccta 1800
attcggaaaa aagtttgtgt gtgacagggg gatcactcct cccttaaggc gcaagcacca 1860
gtttacatgg atcacccaag tcaccgactt gtagcaatga agattctttg agaatcggat 1920
tggtctattc aaaacttggc catgtgactt ctggttgaga ccctctgccc tagcgacatt 1980
gagccgcctt cagactaggc ttgctcgggtg ggttgagttc gcggccgac agccacggct 2040
ggctgactcg ttgacgcttg aattccccat ggatgagtcg cgacgttgga tgcattcatgt 2100
ttgcgtacat agtaccatcg cagggttttag gaatctcatg cttgtagcca gtcctcagca 2160
tcaggaaatc acggcgaggg gtgtctgtat gaaccagcac gtcattgtgt gtacctgctc 2220
aagggaacac gtttagcaggc tcaaaaacgc gaacgtccac ctgattagag tcgtctcgat 2280
cacatgtgtg ccatatTTTT catggcttta ttagagtaac gagtgtcttt tgatgaacaa 2340
attaaatata aatagcatta aaagacaatt acgtgataat gaaagattnt tggaaatatg 2400
aatgggtatt ggattnnngg atggggaccc agagaggggt ccagtaata gccttgtggc 2460
cttattctgg aatgaaaggc cgtgagtgat aa 2492

<210> 2355
<211> 1645
<212> DNA
<213> *Aspergillus nidulans*
<400> 2355

tcaactaagc atatctcgtc cagtccctct agatgtccgg atgaggtttc ccgccggacc 60
tccaggtccg atgaattggg acttcctgca gaaacagcca ctcttgatcg agttcatggc 120
cgatctaagg tccgctgtcg ccggtaaact aatcgctcta ttgaagtgcg gcaactgtcc 180
ctaaattttg aaggagaaaa aaaaaaaaaag caccgtacac acctgggaca cctgatcgac 240
ctcattcttc ccctgcagaa gcggctcttt cgtaagaagc tccccgaata tacacccac 300
actccacata tcaacctcag gaccgtaact ctccgcaccc aacagaagct ccggggagcg 360
gtaccaaagc gtcacaacga gttgcgttag ttttggcgga gggctctccgt agtagcgtgc 420
cattccaaaa tcagcgatct tgagctcgcc gcggttattc aaaaggaggt tggatgtctt 480
gagatcacgg tgcattatcc attgcgagtg aagaaagtcg agaccagaga tgaactggag 540
gagaagggtt ttggtttcgg acgggagaaa tggttctcgc atgtcgtcga ggagggtctt 600

gagatcgtgt tgcaggaagt ccattacgag gtagactcta aatatgccgg agaaggggga 660
gaagcctccc cggggtttga tggtaacat tatgtatctg atacttttca tgggtggagga 720
gcatgcgatg agaggagtag agggaagagg gctaaagacc ctcgtatggg gcatgaatag 780
gccgggctat gaatcatagg ggttggtaat caggcttact cgtccatttt gtttcccatg 840
acgacctcgc ggaggtaaac aacgttttga tggcgcgctt caagaagagt ctggatctcc 900
cgaagtccag ttacggggaa cccgtcgggg gaattgtcta gcttgagctt cttcagggca 960
acgacttcgc cggttgtgag ctcttttgcg cggctaacc agccgtatga gccttcttca 1020
atatggttca ggcgctcgaa gttgtccaca tggcgacagg gtccccattc caacgcgggg 1080
aattgtaaca gtgtcgttgg tttcccttgt ttcgcagcct gtcacccgct ggatcccggc 1140
tgctgctcat ttgagagccg tcgacgcttc ttcggaggcg cttcactggg gtcgccattg 1200
agcctggaat caccggcttg gcgttccgct gcagcttgag ccttagcttg ctcttcgagt 1260
cgctgcttct cggccttagc ccgtcgcctc tcctcctttt cgcgcttgcg ctgggcaatg 1320
agcgttcttg tctcgggatc ttcgtcggcc catctggatt tagagggtoga cattgcagtg 1380
gatgcggatg cagagtcgag acgcgagggtg gagaataaca gttggtgttg gaaattggag 1440
acatgacgct atcggaccgg ggaaacctgg ggcctgaaag ttcaggccgt catcggattt 1500
caaatcatcc ccgcttgtcc cgccattaag tacttgtact cagacaacca gcttaaacia 1560
ccgccttact cttactattc tcgctgagac atcttgcctt ccattgttat acaccagatc 1620
ataatgattg agccatttca agtat 1645

<210> 2356
<211> 1978
<212> DNA
<213> *Aspergillus nidulans*

<400> 2356

tcatgatggc attggttgac cttttcgagc atgatctgat ggatgcgcgg gtatcgatat 60
ggcgcacacg ctttgtggat cttgccaacg cccttgtgga cgccgtggac tcaacttctg 120
gcgcctggtg gcaggatcatg tctgcgcctg ggcaggaagg caactatata gactcaagtg 180
ggtctgcaat gtttgtctat gctttataca aggggtgtgag ggttggtatt ctacctgcgc 240
cagaaaaagg cggggaggct tatatcgaag tcgcggagag ggcctacagc gagcttgtaa 300

agcgattcat tgttgagaac gaggacggca cgcttagtta taatggaacc gtgggtgtct 360
 gcagcttgaa ctcaacggcg acgtatgacg tacgtttgca aattgactga acattatttt 420
 gtgaggcgct gactgagtga gctacagtac tatatccacc aaccgcttgt ctacgacagc 480
 gtcttgggct ctgcggcttt tattcgcgcc agtacagagc acgagttgca ccttgaagct 540
 tctttgaatc tctgaacgcc ggcatattgt ccggtctcct ctgccagaat cccacgagaa 600
 caagaagatg gacaggcgct tgcattcacc tttcgagaaa tgatgcgttc gacgggggtac 660
 aatttaggga gtggaacagt atatatgaga gcaatatgaa tagcgaaaac tgatgcttac 720
 gttagtgact tgattgcttc ttgaagggtg cgtaacttat aagaaacatg atcaagcaat 780
 attcatactt aagtaaagct catcctctgg cggcccatat aagtcactta gccattacg 840
 ttgacaacaa tcttcttgag gctggacagc cgtgtcccta gtctaccata ttgccaaaag 900
 gtacaaagaa caatcatatt gtgcattctt ccataacggg tttaaacaat tttctagtag 960
 aactacatat ttgaccgtcg atatttggcg acatatgtca gaaatgcaag gatagtcgcc 1020
 tcgaaaaccg tagttagcga ggcaatgggt acgccagagc cttcgatatg ctgtagatgg 1080
 caggtgcaag atgcggtcag attgcttctc aagagacgaa tacagtcctg gagaaacca 1140
 ggatctcacg agctcatttt tttattcgtc cactcctgga cgctttgggtg agccatcacc 1200
 atgtcactag tcccgctgc ctggtacgtt gatacatcat cacccttgcc acgccaccaa 1260
 ttctcacaga acaactagag agccgattca ttctcttcc atgaacccaa acctgggtgc 1320
 gtttctctac aaatgtttag ctaacctagc cgtaatatac ctgcaaaagg atatgtaaag 1380
 gacgaaaaga acctccgcgg ggccgaaccc gtcaaagggt aagctgctga cttgtcgaca 1440
 taaactaata atgacagtcc agaaaggagc aggcttggtt tttctggtgg tggaacggtc 1500
 gagcatccat tcaatcgag gagatccgca tccttgagaa gggggaatag ccccaaaacc 1560
 ctgggtaaga aaccgggctt gctactttag aggaagaaac cgggtacccc ttgggcaaca 1620
 gcaggcggtg tttgaaaatt tgcaaaacat catttagcaa agggcttacc ctaaccggga 1680
 taaatggtag agaagggttg ttacaaaag cactgcaaag tatatgccgc gtgaaacaat 1740
 ttatgagctg tattcactct ttggaggggc tagggcctga agttgtagtc tcttcgaagc 1800
 ccaaccgtgt attgctgttg gggaacttgg aattttcctt agacgaacaa gttgggatcc 1860
 atccgtattg gttttataag gccaaagaga tttgggcctt tgggggggtc ccgggtaaag 1920

aaatcctctc cggggtgtgt gggactcatt tctcctacat cttcttctca cattacac 1978

<210> 2357
 <211> 996
 <212> DNA
 <213> Aspergillus nidulans

<400> 2357

acctaaattc ttatgctctg gattcctcgt cacgctacgt gatcgtgctt cgatcagcgg 60
 tggacaagct tatcttgtca ttttcaagct cttctacttc tcatcgtctt tctacactat 120
 atttctgatg atgaaagtgt tccccgaac tcgagaacga gaaagggcgt ggaagatgac 180
 gttagatcc gttgggatct cgttagttct cgctcccatt gtgcatttta tctttgggga 240
 gagacattcc acacggccat tgttggaaga cgtaagtcga gctacctgat tcaactcgctg 300
 ttgctcttta aagaaaaaaa atactgactg cgattactca ccgtaggtct tatggacatt 360
 ctctatcatt ttggagtcag tttgcgtcct tccgcaattg ttactccttc gccagacaac 420
 tgtgcctact gttatcaact catactacct tttgatgctg ggctcttacc gagcgtttta 480
 catcataaac tggttttag ggcagttgga tctgagcatc aagtggactg gatatccatc 540
 atctttggat cgttcaaacy gctttctacg ccgactttgc ctgggtctac tatacccgac 600
 agcgagttaa gctgcggaat ggaggggtgg tcgactcgga agattaccg aacagttatc 660
 ttgtgaacaa ggtgttgaa attagacggc gtagaagcta agacgaagaa gagcagagac 720
 tgcacgacca ggatgacggc gatgagcacc agtcgagata taaccgatgg ggtgcacgag 780
 gaatctccgt ctccgagac gacacattag agaatcagcg gaacggggcg tcctccccgg 840
 cggatcatga tgcgggggga ttctcagagg atgataggaa ctagagattg attgcctcag 900
 agcgggggat cttcctggta atctggctga ccaggttacc aggaagattt ctaatggatt 960
 tgctgaacgc ctacagattaa tccctacatt gtatac 996

<210> 2358
 <211> 1152
 <212> DNA
 <213> Aspergillus nidulans

<400> 2358

gcgaatattt ttggggagac tgatgcgctg actgttttct atgttttttc cggagatttg 60

gactcttcgg tcttgtggcc tgttttcggg atctgaagca tatgtggcgt tgggtgttgtt 120
tactctctga caaagacctt gtacaatata ctactcatgt ataatgcata tacataatta 180
ctagaatttc aaatgctcat aggacaatct tgttgcatta gtttatagta gccattgcac 240
ccttttccca cgcagcgtt gacaagttgg ggcttcgcga ccgcctatct tctgccggga 300
atgcgtacgt aatgggcgga gcggaaagcc actctagcct cagtgaacaa agcaaacagg 360
agcagcacga ggcgcaacaa accttcgtat ctcatcgctc aaggcacaat aacaaagccg 420
tcggtgcaag ctctgctctc tggtagagca gtcacctat gaattggtag tgtcctcggc 480
aagtgaacca tccagcttag cacatacacc ctacatacac tctgaaccca gaaagaccat 540
agcaatggcc agctcaagta caccgtacta cgtccacgat gacccccgtg acgacgagtc 600
gattctggat gatggagtga ttgaggccga tgaaggtag ttgcgttctt aagtcaattg 660
tcttctggct ttgactaac attatgcttc ctgtcctcag caattgagga cgacgacctt 720
ctccacgaga cagaccgaac cccctccgc ggtaacatcg aaccagactc gtcgacttcg 780
cgcgcgga atggcaccag tggcatttcc ggcggtatc tgacctcccg cattcctggc 840
gaagaccgcc gcgcacctca gaacaccatc gacgagagt tatggcagac gctttcgcgc 900
gatctcctcg ccgtgtggga gaagatgcgc caggctctct accccaagta cctggtcggc 960
ggtatgttgc agcgcggtgg gggcggtatt ggggccgcgc agcgcgggga agcgtcaggt 1020
ttcggaggcg gcgtgaggaa ttacttggg cgctggcccc atgctgacgt tgtgttgacg 1080
ggagggatga gcgaggggct aagagattgg gatttatggt gagttgtcac atgcttgaag 1140
gagatgccct ga 1152

<210> 2359
<211> 2054
<212> DNA
<213> Aspergillus nidulans
<400> 2359

tgccgccgaa gatacagcga cgaccgagga gtcggtagct gtcacttga taagcacgga 60
taaagaaagc ttcttcgagt tgcaggccat gaagaatga cttgtagagg tccgtatcta 120
gacgtgttcc cgcttttgaa caaaaacctt gctaattctt atatccagaa actggaagag 180
aatggcagca ttaataacat taaagaagcc attgacaagg gccgaccaag tacaacggac 240

atagtcacag ggtcagtcct gcatcacttt gtatataaat cccgcgtcaa tgtccaattc 300
atcatgtccg cgtatgaccc ggagttctca accatcaccc gacgccgaag gtatgtcacg 360
tcgaacttaa gagtcaataa cagcacctaa ctaggataaa aactagactg atatcaacat 420
ataataatct ccacgaagc gtccacgcca aacacaccca tgtcaaagtc caccactgcg 480
tcactcagtc ctcaagctcc tttgcatgga taacgccagt tttcgaactc tactgtgtag 540
ctgggccgca tgcgaaccgg aatgcgctgg cgcaaagcgc cagcaagggt gtgcaatggg 600
tgcagaagga agaagagcgg ctgtttataa ttagtggagc ggtgagtcac gctttatttg 660
tgatcgtata tgcaccgact gatttggttac aggtcttttg agcttggtta gccctttcta 720
gattgtatgt acatcaaccc atactgcccg atagagtaga taactaggta tgaacgtgta 780
ctaagaatga tctaacgtta ttcttgctct tatctccgag cgaagtaaac agaacgttta 840
ctgaacgcgc aactggtcag gtccatcgca tttgccatgt atgcttgacg caatctagga 900
agattcgatt tgcgtgactg cccagtcctc gtcttaggta cttattgcgc ttgccttctc 960
aggttgccca cggcgtctaa tctatcgtat cgtccctcag cgcaaaaagc tgctggaaga 1020
gctcagctga tttactccga atcgattat ggtacatcgc attcgtgatg aactgcttaa 1080
tacctgtgat cttcgcagcg gtggtttgcg agtgatcgta gtgtacgtac atatcttcta 1140
tgtatgtcgc tgcgtacacg gggacttcgt tcttcgctag ctgcgcctcg tcgtagaggg 1200
cgggccagtc ggtcgttgag gcgaggatct ctgctgcttc tctgacttgg ttaagttcgg 1260
tgtaagagtc aaacatgtct ttgtatatct attcaagtct ggggttagtt tgatgttttag 1320
tttggccttg atggaacggg tttgatatgt gtacgcacca tctctcccg taaaaggact 1380
tctggtgcat ttgtgtcaag gctgaagact gggttcgatg accggagtct gtctgcggac 1440
cagttggagg cctctctgtt tcagttagcg atattagcga tattgatgca gggcagtcag 1500
agttgtaata cccctggcag tagatggact cgtggaggat agcatagatg atattgctgt 1560
cgaagccgcc aaagctatca atagccacca gagtaggatg ggtgaggaag ccgaaaacct 1620
ccagatcgct ggcggcgcgc aatataagat ctacttaggt tcagcagagg gaccgtctat 1680
gtctttgagg cttaaatacc atgaacgcta tcaagccac ctacttcttg ttagcggcta 1740
gttctgaatt attaaacagg tcatggattg gccataccat gcatgccaaa catgattccc 1800
agttgctgga tgcgttcagg aataagcgtc ccagatggta cgctaacctt gttctgcttc 1860

aaatggtcga cgaccttttt caccgatag acgtcttcg gaaacttggc atagtacgcc 1920
 ttgtttctct caattacctt ttctactata tgtaagcagc aggaccccag agcaagtggg 1980
 tggacgcacc gtaagtacgg gagtagacag gatccgggtcc cgttgacaag gggcggaacg 2040
 cccgcacgat gaat 2054

<210> 2360
 <211> 1608
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2360

gctaggggag atgtcatcaa gtaagtaatg acacccatct acttttgcca ggtcgccatc 60
 caacgtcaat gctcgatggc tgcgtcagta tcaaacaaga ggtgcagttc gccgactcgc 120
 gttaccctca atagctctta aattccgata cggccaaaag cgcaattaga gggttttgga 180
 tcggatcctg ttcttcaggc agtcgctgtt gcagagacta tccgttgggt tcagagtaat 240
 ggtgttatgg ctacagccaa acgctacatc ttggcgggtat agattggcct gtgacaactg 300
 ccaggatgac acgtctttac ggggcggcgc tatcgtctcc ctatgttcgt ctgatataga 360
 ccgcaagata catcatatgg atgaatcata tgggctagcg tgggaagccag cttggcgctt 420
 cgctcacttt ctgtcagcgc agtatatgaa gattccagag ccaacctcag gatatgggat 480
 cgagaagaga gggtaccaga taagcaagac gactggattg ttaagagata cgagagattg 540
 gatgtgcac cagatacta tgcaactcta tatcaaagca ataaccagat aacgctcaga 600
 gaatacacag tactttctat atacagaacg gaagcaggac gcctctagac caggaaatca 660
 ggaaccata atgacaggca cggcaagggt cagggtgtca aaccagaaca tcaggcctaa 720
 caaggataag ttacatcctt gtgagtgttt gtctgatttc cctgtccgga cccgtctgtc 780
 tcccagtact taacctgctt gccactgac aagccggcga tatcaaaggg atcaatgaat 840
 gtaacatacc aaggccgggg atcctggaaa ccagggccct cgacttcgggt caccctctct 900
 ttagcaagggt agattttgtt cgaacggggc aagaaccgca tcggatgaaa gatgttgagc 960
 atcgtggtgt tagcatacat gatgaccacc tcaaaaaacc aaaagaacca ctcgttccgg 1020
 atgatagggt tgacgtcgtt cgggtcgtcc cagctatgct gcccggtgc agtgaaatat 1080
 tcgacggtgc ggaaaacggt gcgtgtggtt atgaagggtc aactgcagta taggacggtg 1140

aggacgctct tgagcttctt ggtgagaagt cgggcgcgat agcatttcac ttggaagtaa 1200
acagcaagag acacaaatcc ggccatgact acaagctgca ggatcagggc agctttaagc 1260
aagccatcgc cgatttcccg ccgcctctgc gttgcctcca catttgctag ctgtgctgcc 1320
ccgtttgccg tcaagacttc tacaaaagcg aggaagccga gaaaggtcga gaacacgcgt 1380
ccagggtgta taggtgaaag gtaagggatg tagtagagta tgcggccgag aataaagaag 1440
ttggcgccct cgtatacagg cctgatgaca ttagcaaagc ccatatcgca atgtgtagga 1500
tttactcacg gccagccag aaggaagaca gtgctcgcga tatagatcgg tacattgtcc 1560
cactcaccaa aggcgcctat agccctcaga ataaagccga cagtaatg 1608

<210> 2361
<211> 1194
<212> DNA
<213> Aspergillus nidulans
<400> 2361

cgggccagtt tcttgagacg ggtaagctaa gttccaagga ttagtaggaa ggaatcgaga 60
acttaccctt tgagaagacc taggtggtat tctgataata actagttagt cgacttatac 120
ttaagatttg ccatgatatg tacgtaccog tggccttggt ctctatactc gagttagttg 180
cgggtttgct ttctgataga gtagattatt gaacttactc tgcgtccttc gcatctcatc 240
ctcgatcctg tcagatagca aaaatgagta ccacatccca tcaactcatc atcttaccba 300
catactcctt gatcttctct gtgatgttca ccatctcgct ggttgaagag cccgcgggac 360
tcagatatcg gatttgaata gccgtataca ccagatgccg gggtttgagt agtccaaagg 420
cctgaggcgc actatttgaa acaagcagca acagactaca caagttaatc ggttccccgg 480
attcagtact ctccaaactt gtcgcggaat ctccgcagct tcaaattcgt tgtgatgccg 540
aggcctaatc tggcttaagt aatcatcggc ctagtctctt gaaattcccg cctttatcaa 600
taacgtcaaa caacctcatt caatcaactc aaacatttag cgatggcaga cacagcagtg 660
atcgatacat cacctgcagc ggccacagca gagccgtcag tcgatacaac gccgcaagat 720
ggcgaaagag aagaaataac accaaatgga gagaacgctc ttgtccagca acaatcagaa 780
accgccgaaa caggtatcac agacgcgaac agcacacaga agaaaacgaa gaagatcatt 840
cggcggaaac gacgacctgc acggccacag gttgaccctg cgacgttaaa gtccgagcct 900

ccccacaaa caggaacggt gttcaacatc tggtaacaata agtgggtctgg cggcgatcgc 960
gaggacaagt atcttttcgaa aactgcgggc ccgtcacgga tgcaacatcg caagagatag 1020
tggatatacg cgcgcaaata aagtgcgggg gctcttattt ctgtttgttt ttgtctcggg 1080
ggggtatggt tttttcaccc aaaaaaaaaa cttggtctac cgcgttaaaa aaaaagcttt 1140
gcttaacagg gttaccgggc cagaatatgc cccccaaaag ggcccatgaa aggc 1194

<210> 2362
<211> 556
<212> DNA
<213> Aspergillus nidulans

<400> 2362

tacgtcgtag tgcggggaat tgtcgaatta ttctctcca tggcggggga acgttgcctt 60
tcgtcgccgg ccgatcgcc gatatggggc tccaaactca catatctgga aagtcagccg 120
atgagttcct cgccgatgct aggctgtttt atttcgatct ggccctggtc ggacatgcga 180
tgccgcttca gcttgtgatg gatttcgctt ctgatgggca tgtcttgtac ggcactgact 240
acccggcggg taaagatgga gacgtcgctc aacagtggat ggccgtaggt gataagccgc 300
taattgctgc aacgcgcatg gctgcacaga ccctttttcc gcgcttggca gagtagagag 360
cccagactg gcatgagcga gtagacggcc aagccacgct ctccattcta acacttgcca 420
ccacgagtgt agaggaaatt tgtacggcat tgaagtatga gatcaatcag tcgaaataca 480
actaactcca tagcaaaacc taccagcgga caagaagaac aggcgaatca aggcttatgc 540
gatattgagc tttaga 556

<210> 2363
<211> 1330
<212> DNA
<213> Aspergillus nidulans

<400> 2363

acaggggggg taaacgcggc gcgatttgat tgccttaaag ttaacctctt ggggtggggac 60
cccagccggg taaaatttga actcggtcac tttggaacac catctcggac cctaaaaaaaa 120
aagccgttca actttaggca aaaatgcctt gggccctctt atttggaacca agaacgccgg 180
aatggtttaa caacgggggg ttccaatccc ccctaacggt ttaaaaacga ggggtcacag 240

cccccaaaga tcccaggccc caattaacaa gggcatttac ccaccctccc ctaattttca 300
agttccctgt tcccttcttg ggctgcctt tttcatttgg tagccgacat aggccgtccg 360
cacggagtct cgggtttcct gggcgttgat ggatcagaag cttgacctca ggtgaggacc 420
cttaagcacg gctaactcga acgctacaat gatcttgttg tcaagactag tgtgaagtcg 480
gtgatcttgc tttcgcacat tgtaggtggc cgctgtatat catacagagc atattctttg 540
gagccgctta tatcatgttg cgttctcctg cttgggattg gtcaggtcgt cgcggacctt 600
aagaagctca gcacgaccga ccatctcatt gatggtacga attcccagct ttgccatgat 660
agcccgcagc tcattggcga tgtagtagaa gaagttgatc acgtgctccg gctggccctc 720
aaactttttg cgaagctcag gatcctgggt agctataccg acctaaagaa ttaattaata 780
aatgtagata atacaacaag ggtgaactgc tgggggaacc aacagggcag gtatttaggt 840
gacatttccc tatacaccaa attagcggct gcaatgatac gtataccgga cagggatcct 900
tactcatcat aatgcacccc atggcgatca aaggagtcgt ggcgaagcca aattcttcag 960
caccgagaag acaagcaaca gcgacatcgc gtccagtgcg gatctgacca tcagtctgaa 1020
caataacacg gccacggaga tcgttgagca cgagggtctg gtgagtctct gcgagacca 1080
actccaagg aagaccggca tacttgatac cagtcacgcg agaagcaccg gtaccaccgt 1140
cgtgaccaga gatgagaatg tggtcgcct tggccttagc cacaccagag gcgacaatac 1200
caactccgac ctcggaaact agcttgacgg agacgcgagc acgggggtta gagcacttga 1260
gatcatagat aagttgctta agatcctcaa tggagtagat gtcatggtgt ggccggaggtg 1320
agatgagacg 1330

<210> 2364
<211> 1643
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 2364

ttctgcaaac tgtatgctca ccgtatacgc aagaacgcat caagaactcg atcctctttg 60
aaagacatct atagcttaga gcctgcttgt ctgcgcatag ccgcctcctg gtcacgaagt 120
agccgtcgca agatctttcc gctagggctc ttgggaacag tgtcgatgaa tctcacacca 180

cccttaagcc atttgtgtcg cgctttatga tcttgacat atttgacgat cgacttgact 240
gtagcctcgt catctgggtcc cgcctcaggt gacttagata caattgcttt aggtacctca 300
ccggcagcgt catcggggat ggcgatgaca ggcgaatctg ccaccgctgg gtgggtgagg 360
agatgcgctt caagctcggc tggagcgact tggtgaccct agcacgcagg ttagttatcg 420
gggggtcatg ctttctgta cattgctacg aaccttgact ttgatcagct ctttgattcg 480
gtcgacaatg aacacatgtt cattgccctt ggggctcttc cgaatcacgg cttcatcacc 540
ggtatgcac catccatcgc caaacgtctc tttggtagct ttctcattgt tgagatagcc 600
aagaacgacg ctgggagctc ggaccagag ctaccagggt gtgtcatact tggtaatatc 660
ctcccccttct ggggtcacga tacgtgcctc tacgccgggg ataagccaac cggaagacct 720
aggcacgatg tcatcaaagt gtgtggccgt gacgaccgtt gatgtctcgg taaggcctgt 780
gaatcgaaat cagtaatcta tcggtcatac tcatgaagct gatgacctac catatgcctg 840
ccgaatagca accttcggat atctcttttg aaagtcgaga gcggtctctt gacctcagtg 900
tgcgcgccca gtcacgagcg ccaccgccga gttaagggtca tactcagcgc atatttctgg 960
gctccgaagc atagtgataa tgatcggagg aaccttgacg ctcgtagat aggttcgctt 1020
ccggacagga taagacttac cacaacaaa acagagatct tgaatctttg gacggcggcc 1080
aaacacgacc tcaactcgaa cttgggaaga actatgactt gatctccccg gaaggtecca 1140
gcatggcaga taacaaccag tccgtaaata tggctctggg ggagcaggcc cagcaagacg 1200
tcactatagt agctgccgtc cgattcttg cgggtatcac gccatgattt ctctaaagcc 1260
gtcatctgca gaacatttgc aataacattg cgggtgcgca tcattactcc tttctaagtc 1320
tctgtcagcg ctcaagaaat gcccttatac tggagggtgg ttacttacag gtaacctga 1380
cgttccgcta gaatagcata gataggcagt tcgacgcgcg ccctcgcttg cccccattt 1440
gagcttctcc aacttcggaa gagactttcc ttctcgacg atctgtgaga gtgtcttaaa 1500
ttccggcggg atcttccgcg taccgggcaa cacatcaatc aaataaatac ggtctttagg 1560
tagccctgcc gcaaatgccg ctttcagagc ccgtgggaga agcgnaacgc aagtgaacat 1620
agcctttgct ttttgatcga gta 1643

<210> 2365
<211> 3683
<212> DNA

<213> Aspergillus nidulans

<400> 2365

tttaaggtct tcattattgg ccggcgaggaa ggtgtccttc aggaaacagc cgcttctgcc 60
gtcaacggat cgatcattcc tgtcactgcg gatgtgacgt ctaaagagtc actgcaagcc 120
gcctacgaca cctttgcttc tcagaccgac cacattgacc tgctagtgtc caacagcgga 180
atcgcaggtc ccattacaaa cacagagatc cagcccgatt gctatccac cctatccgag 240
tttcgcgacc agttctggtc gatcccatg gaggaattca caaatgtgtc ccatgtcaat 300
gtcacgggag cgcttctacac catattggca ttcttgccgc tgcttgaagc ccagaacaag 360
aaacgaccgg cgccgatacc gggcactgta tcctctcca aaccacaagt gatcattaca 420
ggctcaattg cagggtttac ccgccttgca ctccccggt tcccatataa tctatccaag 480
gcagcagtga cccatatggt taagatgctt gcgacaacct tcagtcaata cgacatgcgt 540
gtcaatggta tcacaccagg tctttatcgt actgacatgt cgttgcggtt ttacaagtcg 600
cagggtgtac gtgggaatgg gaccgaggat gggtcgtttc cacgatctat gggtcccgtc 660
acaaggagtg gtagtgaaga agacatggcc ggcattatac tctggatggc tggtgccgcy 720
gggggatacc tgaacgggaa tattgtcgtt agtgatggag gctcgggtgag tgttgtgcc 780
tcgacttatt aagggtggtg gtagaggacc cggatatttc ctttatatat gtaatacagg 840
atgtcaaatt gaccgcgaag gattcctatc aaagttacca caatagttag cttgttctcc 900
cagaactgtg ggtctgaatc attccgttaa aatagaggcc cctgctttgt gatagctcca 960
agagccaaat cctgcaatct ctacactatc tccttcatat aaactgtgag tggttactta 1020
ttgcagtgtt attagtctga atgcctcaca tgacctcagc tagcgcacac tgtatctcat 1080
ctcatctcac gcatagcttc aatacacctt agcctccagc ttcaacatca acgtttttca 1140
attctcgacg tcttccatgt attgatcact caaatggga aagaagacat ggagaatgct 1200
tggttaaggag cccaagctcc catagacaac tcgtctttga gtataactca tcgctattcg 1260
caaagaacaa cccaatgta atgaaccagt tggcgacgaa gttgggtcta tcgtccgagc 1320
tccaattcta cgacgtatat tccttgaatg aaccgagca acttgccac attcctcgac 1380
ctgcctttgc tctgctggtc gttattccgc ttacaccagc ttgggatgaa agtcgcaagg 1440
ccgaggacgc tgacaaagaa ccctatactg gttccgggac tgatgaaccg gtcactggt 1500

acaagcaaac cattggccac gctgcggtat tgatcgggtct gctccatagc ttgtttaacg 1560
 gtccggccgt cgacttatca agcttgactc ctttactggg cgctcgttac tgcttaagca 1620
 caaaagcggt ctcatctctt caccgcag ccttttgcac tgctcaaata gctgcagata 1680
 cccagtcac catcttccga atcagcattg ttgccatcgt cctgtatttc atggtcgggt 1740
 tgaccatttc agcgtccgcc cttttcgcac acggggttat tctttttgca ggaaccatgg 1800
 taagtgcata atctgcacgc acaaccatac tatatcaatg ctgcgttcac tcattgtctt 1860
 agtgcacgac agccatgttc cgcgcgattg gtgctgcttt tgactctttc gatgcagctt 1920
 cgtaagtctc gggattttct atctctgctc tggatcatgta caccgggtat atgattcaga 1980
 agccggaaat gcacccatga ttcgtctgga tttctggat tgatccacta gcgtacgcct 2040
 tcgaaagcct catgggaacg gaatttcacg gggttgggtt aaaataaatt gctagatcca 2100
 taggcggttt actgttcagg taaccacccc aaaaccgcc ccaaccgtg gtttaactag 2160
 tctacttacc gtcgagggtc aggacgcgat tagccggaca ttcaaactcc attagttaaa 2220
 ccggggtagg cagatgttag gatgaacagg gacacttgaa attcttatcg aatactataa 2280
 tgttatcgcg cgcctagcct gccttaggct agcacgtgct actgtggaat gggatggaca 2340
 attgtcatta ttggctggcc gacgtggccg ccttatatct agtttactaa ataatgacta 2400
 agcgagctcg accctaaggg gcaggcgggt ccataggaca gtatgtcctg acaagagtcc 2460
 tgtggaacat aaaagcagcc agatcctcgc aatcgtctcc tccccttat acgtcctatg 2520
 tgttcgaaat atgacactta ttcattctgt acatacacct gacaatacca aacatccgcg 2580
 aaataagtga aggaatccac agcaagcacg aacttatctt tgcttactg caccagaaa 2640
 atcattatct tatctttttc cgttagcgaa aggcattgggt gaccggttac cttttgaggt 2700
 gctgttgac attgcggagt gcttagagga agaccgtgac tctctcgtgc agtgactcgt 2760
 agtatgcacg cgggtggaagg cagtctttga gagactcctt tacagaagat tacacgtcct 2820
 cagcaatgat cttgggtgtc gtgtaggaga cttatctctg acacgttttc aagctctcac 2880
 ttcagcgggt ggtaccgcgc ggcgtcttta tataaagcac ttaatttacc atattgtgtt 2940
 gccatatgat gtgggagctt ggcccggtga cacgccagac ggcgaggcaa acccttttca 3000
 gaaggcaaac gatgctgtgt ttggagtggc tgtcatcagc ctatttactg ctctactttc 3060
 atgggaaaac acgcggttca aactaacgtt ccaattagtg ggttgtctgg atagttatga 3120

actcgggatg gaggaaacct ctgttgacgg gctagaggaa gaatcaattc ctccgccata 3180
tcaagctcga ctcccttcca ttgaactctt tgaactgcct gaaattgaga gtatcgataa 3240
atTTTTtgtt tcagattatc ttctcggctc ggtggggata gggaacagaa ctgcaattga 3300
gatagctcat tgttttcccta agcttcagtc tttagagttg agtctcatta cccatgacga 3360
tccagacttc caaatcaata gccgaaaagg tatgagatga acttctcttt ttctccctca 3420
agctggctac tgacaaatcg gatattttgc caactatgct gatgttacgt ttctagaact 3480
gatacagggc atcaagaaac taccacctac tctcaaaacg tttcgttatt cggagcatta 3540
tagcgaattc atcgatagag agcttcagtc tgtcgatttt ctattgggcg aaagcgatat 3600
gcttacgccg actctgcggg agttctcctt gcagttaagg gagctaaagc tgataggggt 3660
agctattgcc ccagaccttc tat 3683

<210> 2366
<211> 449
<212> DNA
<213> Aspergillus nidulans

<400> 2366

ttgacaagca cgggttgtaa tttatgatct caggcgaaac cgcattgaggt ccttaggagg 60
cacacgggca acgtaaagcc aaatatgccc aggggtgatta aacagcacta ttcaagcaaa 120
ttccaatctt tcgcaccagt cgaatcgatc agaaatcggg agcaggatca acctgatcaa 180
gaataaaaca ggtactgaga gcgacgaagg atgcaaaaga cgccggaccg aaagcaagca 240
gacttaatca acaagggaca ttgagtcaga agtagcagca gtatcgtgct tgcgtgtttt 300
tgagtcggcg attgagaatc cctctcttta atgtacgctg tatcggtact ttcactgccc 360
agcgctacct atgagttcgg cccacgggaa aagacgagcc aggcaaggac ggggacagag 420
agagatggta ctgtggcgac agtgaccga 449

<210> 2367
<211> 1457
<212> DNA
<213> Aspergillus nidulans

<400> 2367

tggctctcag cttaaggtgt gatcccaggc cttggagata ggccctgcact ggaaagcagc 60

ggtgcaaacg ttggcaatgg cttggcaggc gacgatgccg aacatgatat aggacattcg 120
 gcggaggtag ttgtcgccca ggcgggtata gaaccagcag acagagggtt tgacgaagcc 180
 gagacaggat agatagaaca tggagctcag ccagacgttc tagtagttta gcatgggttcg 240
 cctaaagggg gaaaggagag gcttacaaac gcataggtga ccatgttgct tgggtctaca 300
 tcgtcaaggt gcatgcctag accatgcttg acggctgcag tgtgaattat tcgtcagtta 360
 ccaatcttcc agagtcttgc agcacactct ggctctcact caccacaaat tgtcacagcg 420
 gagaaggccc aggagaagcc ctacagagtt aactgatcag ctgtcgattg ttccagagtt 480
 ttggccagtg ttttgaccag tgtttgacca gacgggtgtc gttgaagtac tcacacaggc 540
 aaagataatt agagcatcgt caacatcgaa tttcttgaga acatagagtc gagcaaagag 600
 acgcaggagg atgacaaaga cagtgatgat ggcgaaagcc agcgcgatac cggtcactgt 660
 cggaccctgg gtttcaacca tgatggagga gcaatggggt ttggcactgt agagaaagct 720
 taacagacgg cctcgaccac caaaggggac aatataggtc tgccactcag tgagagcagt 780
 cgagcccgcc ctgaagaaaa cgggccagag gttccgccag gctggatact ataaaccttg 840
 agagttggca ggccggggag caggagccac ttggggaaac cctgagaaag cctggtgaat 900
 ccagagaaaa ggaaaagagc gttcgtcgtt gacagaccga tggggcattc cccctgaacg 960
 gacttggatg atggacaata ttgcatgcca ctggtgtctc atccttgctt gcttcttttg 1020
 cgctccttgg cccttggtgc tgtctctgat atggactact ggtaccggtt actgttcgtg 1080
 tgtcccgtt caatcgagaa caggaccgct gattgggggt ccagatcgag gccgcggcac 1140
 ggcggagcca tgcgttgtct ccgtgatcgg gactatattg gactgctcag actatagtgc 1200
 tcagtaccct cagcgttctg ggcacagact cggccatctc tggcgctagg actcaatcgg 1260
 aaagcaatcg gcgccacagg atcctggccg atggagacac ctcggaagtc atcctgcaga 1320
 ttggatgccg cggccgacta ggccgctgag gggaagagga acgctctgga ggtcatcatt 1380
 attactcaag tctgtggagg cgaatcgacc tggcgggtgc gtagccagga gccacggag 1440
 accaaaacgg tctggtc 1457

<210> 2368
 <211> 1889
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2368

gttggtatgg ttggtgttaa cactggtttg attagtgatg ttgcgtctcc gtaagttgtt 60
ctttcaagtt ccctgtcggt cagagggtgca gtttcgggct aactatttgt ctagattcgg 120
tggtgtcaag caaagtggct ttggtcgtga aggtagcaag tatggtattg aggagttcat 180
gacaattaag agtgttactt ttggtgggat gggtgagcct ttgcagtcgt gagaaaatat 240
agatgaaggt ctggcattag ttaaacttat gatatcactg tataaatgaa tatatatttc 300
gttgcgaaat caataaatac tagaaatttc ctactctca acccctagtc cggcgccatg 360
agctatgcmc atatactgac ttgggggtgat aaataaatag ctggcgatca aaggccatgc 420
agctaagaaa agcctaaata taggggaaaa tgatattgcc caaatctaa ttacacgca 480
aataatacaa cacagaacat atgcgccgca accaaccagt tggtcatgtc ccattgaacc 540
gtgaaaaatg tccagacaag cgtcgagaat agtccaacc ctgaggctgg aagcccaaga 600
agatgatact ctggaagttg ttaaagcagt acacccatga ggtctgtttc tcccgactca 660
gagggtgaagc gccatctca taattgaatg gatatcgtcc tgtcctctcc tctcaaaaac 720
acaaaacttg cattctatct cccttgacgc tgcttatgtt tcgggttctt cgagctacac 780
gaaggttggc tgtagcatc atatcaccca acacactaga gccacgacaa ccaaactcac 840
caaatgatat aaaccgggtt cttctccga acgggctata ttccaagcag cgcccgtag 900
cccatgacct tcggaacaca tagcctcaat cttgacctcc cacttctgc gaacaacatt 960
taggacaata tgcatacctt gcacccttca caaagccgct taaccgacga ccttgtcttc 1020
atccctctca cttgtccac ctgcctcacg gcagaaacac cagcacctgg cacaatagac 1080
cttgaccacc caaaaaaaaa ccaattgtta cttgtgagtt gtgataattg tgaaaatggc 1140
cgggcaagga ctcggaagtt gctgttgtgt cggggaagga actggcggag ggcggcggtc 1200
gggggaccaa ggaggagcg gagggagatc atcttgatga atcgcgagg agtctccaat 1260
cgtaaatact gagaacaagg cgagaccctt ggaagttaaa atagtgtctg attcgatcct 1320
tggtgttcgc atcgacctta ggagattgtc agagtgtctg gcggaaaatg tttcggattt 1380
tctgtttcgc cgataatccg gagatgtctt gcagtatgat ggggtcagca aatgtccac 1440
agagactctg cgtatgttat gaggatgata aggttaaggaa aatttgattt gtttgcgact 1500
aagtatgtac ttggacaggc cacatgattc aaactggcta ctgggctttt cgtctcgtac 1560

ctttctgtcg tttccctgtt agcccagagc ccgttggtcg tgtcgtggaa gtcctggag 1620
 atctacactt ccaagatatc tactcatgcg gagtaaattg caagccagac aggatctcgt 1680
 cggcactcag ccttgatcac ttactgcta ctcatctcat gctatacctc tgctattatc 1740
 agttagtgtt tgattttcat gggcttcgga ctcataatct gactccatgt cagaactgta 1800
 tccaactcca attcttgaga atagagttat cggactcggg gcatcgagtc cttccgaata 1860
 tccatatgcc ttaataacgc gaagtagaa 1889

<210> 2369
 <211> 2734
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2369

tgcacgatg gtaagcgctc ccgcgagttc tacattgtct atactgaact ggccagtta 60
 gagatgtatt tgaaatgac gaaccgttta tccgcgggag tggttccaaa gccagtgccg 120
 gcatcagaag gtgcaaagag ctggcaagga ttatcaaac ccaacggacg ccgcaatggc 180
 cgacgccgcc cactcaggat ctacctcaa aaggcgctcg tgatgagttg gttgactgct 240
 atctccgtac aatcgagact acattccggg tctgcacgt acctacattc aggtccgaat 300
 atgacgtct atgggtatct gaagcacggc ccagcatcgc gttcacagtc caacttaagc 360
 tgggtgttggc actggggtct gtcacttacg acgagcgggt ttcaatgaga cccagtgcg 420
 ttcgttgggt atttgaggcg cacacctggc tctctgatcc agacttcaaa cctcaactta 480
 acatacagtg tttgcaaagc aggattctac tattactagc ccgcgagata atcaatgttg 540
 gtggcgattc gagttggata tctgccggcg gactactccg cactgctcta catatgggat 600
 tacataggga tccgtctgta ctgccgcta ggtcggcgct cgctgttgaa atgcgacgcc 660
 gactgtggaa cactatcctc gagctatcac tgcagtcaag catttctctc ggtggacctc 720
 cactaatttc cctgggcgat ttcgactgtg cgctccagg gaatttcgac gacgaacagc 780
 tactggctga ggaccgggtg ccgaagagtg atgatgagta cactcaaaca gcaatcgcca 840
 gggcattgag gggaacctac ccacagcgcc ttgcaattgt gaaattcctg aacgatctaa 900
 gttcatatgg gacttacgag gaaactcttc gacttgacgc agatttaagg gaatcttaca 960
 gggctatttg ccgtatcctc cgagggtatc ccagcaacgg gccttccccg tcacagttcg 1020

aaaaatgcat gctcgacttc atcatccaact tctatgtgtg ctgcctccat attccctaca 1080
tcgagaagtc actgcgggca ccggcatatg cattctccag gaaagtcgag atcgagagcg 1140
ccctcaagat gtggtgcgcc atttaccat cttccagatt catgagcaac acccgtcgag 1200
agattagcgg atccgttgaa aataagctga ctcggttcgt ggaatgcggg tttgggtttt 1260
tccgcactgg tgttataatc gcggccatgt tcttgacctt ggagcttaaa gctcagctcc 1320
tggatgatga cagcctaggt ccagcccgt atcggttaga tcttttctct ctgctctgtg 1380
aggcgaaaga ccgttggttg aatatgattc aatgtggtga gactaatgtc aagggtacc 1440
tcctcatttg tctggtaacc gccagatcg aggggtgat gcatggagtt gaaccgagca 1500
aactccccga actccttctc cgcgcagcag aagaggcgga ggaccggtgt cttgacttca 1560
tggaggagaa agccgatctg ggacggagtg gtggttcctg tgaggtgatg gacgaatctg 1620
cgaatacagc gcccttcatg ggcgactggg agtttattgt aagtgtttgc aatctagaaa 1680
attgttctat gccaacagcc tttagatgac agatccttct ctttaattatc ctgggactac 1740
tgaaccactc agctgggtta tgaatgaaga aacgagacca ttcataatgt aactgagcaa 1800
gcttagcaaa cacaggcgca caccgagatt ttcattgtctg actttgcttt ccaccgagga 1860
tcgggtaaaa gagcttacct atcttgctag cgctgctgcc tattaatat gactccatcg 1920
cacctgaatt gagtaactcc catggccaat cggatttttc attogactca gcctcactca 1980
acccaattcg gaagcaccac cactcgatcg acttgatcaa gcagtatatg aaaccacctc 2040
gcctctggcc tattgaccat gaggttgctc gtgtaataat attttactac gggtgatctc 2100
actcaatctg actcgtgact gtgctgtcgg cagacttttt gtaccccgat catggcctca 2160
aacacagagt attcgcagac tctgcaacac attacagatg ccaaactcgt ggagctatcc 2220
aacaagcgcc gtgtcttctt gaagcgcaaa gatgaagcgc tgtcagaagc ggaagctgtt 2280
gaatctccgc gcgagaagct tcgagtactg tgcaaggggg taaaaacctg ctttgacatc 2340
cgtgttcaag aagatgaccg tgtgtcggat ccatacata gcaaccgccg tctcgtgatc 2400
gagcttgcca acctcgatcg ctttctgaag caagccgagc acgatccatc gatttcagtg 2460
aatacactgg agcgggtggc tgggtctctg cttggcttgc ttgacgtcca gactctgaaa 2520
tacgagtacg cgacgctgtt cgcccagctc acgatggagt ggctgtctgc caataagagc 2580
cccaaatcgc cgggcgatat ctccagacgg gagggtttcg aaaaagtgtc agcgcgcaga 2640

agctggaatc gagaaagttg tgggaagagt ttgtgttcac acctgctgat ttggagacca 2700
gcgacattaa ggctttctct aataatctct tcac 2734

<210> 2370
<211> 2860
<212> DNA
<213> *Aspergillus nidulans*

<400> 2370

taagatcaac aaggtatgct ctagttgcac cccaattgc gtacagcttt tccattgctc 60
acacattcat tcagggcatg atcaagatgt acaacgccga agtactctct aagttcccag 120
tagtccagca ctttcccttc gggtcattgt tcagctggga gcgtgacccc aacgctcctt 180
ctccggcagc ggatgctcat atcgccgcga caacgcgaga acagatgagg catctacggg 240
atcatcctcc gagggaccgg gtaccagagc cccatggcaa gctacgaaag ctccaggatt 300
aacaactaac gttccaagag ctctacctt tacagtccca agtacatcaa ggcaacatcc 360
tggtcctatg gctcctacaa gggcgcttg ggcaacatct caaccagggtg gaccggctcc 420
ccctggcgat tctacgtctg caggccatat gccaacgaaa gctccgtggg ctaagtaacg 480
cgcaatattt agcaaacact tgtattccaa aacatactgt ccgatatctt gtaggaagct 540
atacagacaa aaatgaccat cgggtatcat ctctcaagca aacctcaac gccttcacaa 600
aagataaacg taaaggtata tcaactctgaa tccgagccat aatcaaccaa agccacagcc 660
tgagatacgc cttgctttgt cctaggcact tctcctgac cctccactac accattccta 720
gcactcttag cctgagtatc agagccacca ccgttagcgc cctcctctgc cttctttccg 780
tccccttccc tggcgttttc ctcttcttaa cttcgggctt ccagacatat gcactatccc 840
cggtagcgtt tagaaatggg tcgacagcgg ccgcgtatt ccagactaac ttgataggaa 900
acgaagccgt gcgatccgca accaaatccg ccgttttccg cttccactg ctgcctttac 960
ctttcttctt atcagcgtca ctcagtcgag acatagcagc ctcaaacatc ggtttcgcgc 1020
gcgtacttaa acaagcacta gaagcaccat cctcaaactc aaccatcccg gcccttaccg 1080
catcctctc ggctcatcc acaatttcaa tgcccaaact catcttatct ttcagcgcct 1140
ctttgatgcc ctcttcttc tccagcact ttctctcagc ccgaaacccc ctgcgcaacc 1200
tcttcgacac ctcatatgga tcatcccaat ccgcatcctg tttctgctgc aactccagta 1260

tccgattccg cgtttcatca acgatccgct tatcttcgac cttccccctct agtcttgcaa 1320
 acggatcatc tccagccgcc gccctgcag cacttctccc accgagcaag atctctccac 1380
 ctectatcaa gtctgtccca tccgcttgtc cgggtgtctct cctcctccca cctcagtaa 1440
 caacgtatgc cgtgttcttc gggtcggtcc gaatctcaat ccagccgccg caaagcgtat 1500
 gtttcatgcg aaaactgtag accggcgctg agtagtaatt acccacttctc ttcttttctg 1560
 cgtaaaccg caccctctgc ccaattatgt tctccggcga acaggtcgtg caccataccg 1620
 cgaagggcat ctgaagcgc acaattaatg cgcctttgga ttggagggtgc cgcgcgcgcg 1680
 agccgagtgg gtgtttgttg tggagcttgt tggcagtcgt cagaccttct tggtcggggc 1740
 ggatgtaccg gcccatgtct gatagaaaaa ttatgattag ctaggctcta agtgagtgtg 1800
 aggatattat atgctgtggg aagcgcgagg aatgggtacg cactgaagcc ctgcatcttg 1860
 acggtgtttg tgggtgtgata ttggttgggc tatgtattaa aaagtggatg gtgtaggctc 1920
 attcctcggg tatgagctgc tttgaacatt tgagtgtgat cgactaactt aagtcctggg 1980
 atgatttgct gttgagcaga agtttgagtg acggaagaca tcatagaggt tatccgagct 2040
 gattttatgc ggattactaa tgatgtacat agtgcccata agcacaagca agattgaatc 2100
 caaagtagat aaatgtgaag ataaatacat aaaccaaaga ttattatacc gagaactaca 2160
 atgtaacgca ccgtccaccg acctgcact cagttcttat atccagaaca ctctcccaa 2220
 tgtgaatctt caccctctt ccaccaacaa cagtcttcca atcctgcacc tcaacattcc 2280
 aaacactcac gtcttctct gtaacttcca atgtaaaagt ttcactttgt ccggtctcta 2340
 ggaccttctg tttctcaaac tgtctcagct gcctactcgg cgtgtcaagc ccagcgaat 2400
 caggaagctc aacatatagt tgcgcaacag cacggccaga atgttgctct gtattggtga 2460
 cagtcacttg cactgaaaat gcgacgtccc agagagcagg attgccgct tctgcgccac 2520
 cggctcgtgg gggagggttg gggctctgtg tgtatccgtc tgggtagggg tatgtctttg 2580
 aagagttggc aacggcggcg tcagcttgcg ggttggtgag gtatgggtaa atgtagcgcc 2640
 agatgcggtt aaacttggct ggccaggctg ctccggaggc gggagggata gtattgggg 2700
 atgtgggtgt tgggcctttt gcggggcgag aagtggtgata cgcgctgtct aacggggtaa 2760
 cgacggatag ggcaggctct gagaactcga aggttggtga ggagagaccg tgaccaaagg 2820
 cgtagcgtgg tgatgatatc ctctgtcgta tcacatagtc 2860

<210> 2371
 <211> 2532
 <212> DNA
 <213> Aspergillus nidulans

<400> 2371

```

gtctctcagt aatctgtccc cttgtgctgg atagcatcca agatgttcac tcagatcaga   60
gctggaatca gccaatcccg atgatcactt acactttttc gctcgacctg actgaacggc  120
tagctgtgat tattgatgtc acggctgaat tttattgcca tggttcccgg tctgatgagg  180
gcaaagactg cgaaatcggg tattgccggg tcgacgtaag caactagccc taggctggaa  240
gtaagtatgg cgcccatttt ggcggtttaa gcgacagact ccaaacaata acttagaagt  300
tcatttatat aatcaatcca cggatagcct ggcgcataag gggtgaggaa acatttcggg  360
actaagacat tgcaggctcc tgaaatgccc ttgatagaca tgcaggttgc gcgagcagtc  420
acttcttacc ttggtctgga tatttggggc tgggcaactt atacaatagc gcattttctc  480
tgttctctac gctataccta gcgctccaat cagaatcact gcagtcccct cgacaaggag  540
cccgactctc tctctctgct agcaaacttg acaacatagc caacccttat caggaggcac  600
actggtacca accatggtat atttgtgcaa ccacatacac gatgcgcttc tatcgcatcc  660
tattccgact ataagagtca agagaaatct ggcgcacgta cggtagagtt ctgttcagaa  720
accacccttg acagcataga tctgaaatga acctgcatca ctgtttaaca aaccctatcc  780
gcaggcatgg agcgagaaaa agactcaccg acccactcat tgaagtcaac atctgaaaaa  840
tttgcgggccg ggatttgaac cgactcttta ggcgcacagc agctgtccgc tggactggag  900
tccaaggtct gtttatacag gttgatatcc gcctttgtat caacaatcaa cacatctaaa  960
aattccgtgt atcatcctgt cagtggcacc gtatctgcta ccatccaggg gatcgaaatc 1020
acaaacaagc ccacggacat acctttaagc cctgcccttc ccaaccagtc ctcgtactcc 1080
tccaccagac ttgctccgcg aacgcaacct acatacagcg caatatcgct cacaaaggcc 1140
ggacttaagg gttccgtgc cagtatatca ctgatggcaa ctcgccacc gggctttaac 1200
agcctggcaa tttcagcaaa gacaatgggc tttgcatcct tgggaactag gttgataacg 1260
cagttgctga tgatgcagtc ggcgctggaa tcaggtaacg gaattgaggt gatgggggct 1320
ttgatgaatt ggacttggtt attggggaaa ttagccttct ttgcattggt ggtcgcgagc 1380

```


gtaatcattt cctggagttg cgacagaggg gagagacgtc agtttacgat gctgtgtttc 1440
 tattcaacgt gcaaaggata agtgttggtta agagattgca tcagcggaaa gagggctaac 1500
 ctcagtcata tcaacgcaa tagccctccc ctccggggccg accttacgag cagctaggaa 1560
 gacatcaatg ccgcccgcgc tgcccaaatac aacaattgtc tctccctaga tcggtaggat 1620
 cgcagttaga ccgacttcca gattattcca agtataggat cagatgggaa ttaccggctt 1680
 aagatttgcg aacgcaatgg ggttcccaca actcaggcct agatttgctt taccggggag 1740
 agaagagagc tctgctgcgg tgtatccgaa ggcttgagcg agtttgtctt cgggtgctgc 1800
 tttattttcg ttggtgtctg cgtttgttt tttcgcgatg ctgccgtagc gggattgcac 1860
 ctccggagtag gtgtcttgaa tcattctcga taaattggga ttagaatgaa ggctggaggt 1920
 aggtatgtat gtatagatac aagtcgactt atgggacttc gcgcacgaag aaagggagtg 1980
 atggggtgaa agaagaggag agggcgacga catctcctgc ttatatgcca catcaagtgt 2040
 ggtggctgtt gagagtgggt tgtcatagtt ttgaaagtct gctatctggt tggttggttt 2100
 ataactggta tgtcactgtt aacatgagag ctttgacctc ggatgaataa ggtaccttat 2160
 gccgggtaaa ataaacaggt aaaggatagg aaagaagatt gtaaaatcaa gctaccatct 2220
 gtgctttttt tacccttaga aagcggactt gagaaaaatc ggactgtgga caaaatgagt 2280
 cgcgccaatg gtcaagacaa cacgtctaca gtgtttggat cttgtagtag gtttgagact 2340
 gcgcacggct tattctccg atctcaagga ttgaatgact ttgctgttg tcaattccca 2400
 gatcagcgtt aatatgggtga cataccgtat ccacagagct tcaaccagta cctgaaaata 2460
 acagaaacct ccaagccgct agacggctac ctggcacagc cacgtcgggtg ttcaaccgta 2520
 atatatcgta cc 2532

<210> 2372
 <211> 1732
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2372

cagtctatgc ggagcatgtt tggatgatcg cgcagacagt aagcttggtt tttgctgctg 60
 tagcgctagg aattttattg gcgagaggac cacgagagaa ggctggggtt ggggtggactg 120
 ggggtgtgta ttttcggaga gtgcatgagg atccgagttc gagtggaagt cctgcgagtg 180

atggaagtgg tgagagtggg aggactgagg ggcaggctcg gtcttgagta gttgagatgt 240
 cgtttgatca ttttggaccg gtccctctac aagctcatac agaacggggc cgcttgagct 300
 gtgtatacat agaataatct gattagaaga ggggtctcaa ataacacagc agtgatactg 360
 gacctagtta ctgctttgaa gtcgacggga atggagctga gcctaggtag gaggcggcac 420
 tgaatagcat atcagtttca gcagctctag tccttactat caccttacca ctgcgccgac 480
 atgagtcgaa tcgaatctgt agctcttctt cgattctttt aggatagaaa gtagcagccg 540
 ttcttcaggc tccctcttcg ctgagcccta atctctcgtg acctgtccgc aggccatcat 600
 cgggcagaaa tatgaacttc gccggtgcag ccatgtgact cgctatcata aatcaccaag 660
 gggcgcaaag aagcggaata tatatatatt ttttcttatt tcctttgggt cttttttttt 720
 aatcaaagcc atagaatata tgccattctt ttcttttctt ctttttcttt tctttggagt 780
 tttataggca gtattagccc tgggactacc acagtatcta tagagtaaag taaccgcaa 840
 ttaaacgata accgattcaa ttgaacgatg cgtatttgaa tagtatagat tgcttgtagc 900
 tacatgcata gattactggc aagatcaacc agataccttg ccctactata tgatgttttt 960
 tccctgcgac atgcttccct gttcagcgat atgaatgctc tttcacccaa aacttcctcc 1020
 cagacatgtc atttggggca gtggcgctgg ccgcgttaac ttttggcgtc gaggttaaag 1080
 attggtagca ttactgtgcc ggtcccaaac acccacagat tgtatagttt gccacactaa 1140
 gctccgacct cgctgttggt gttgctgctt acttactctt tctgggtgagt ctgaggagat 1200
 gcggagtgac aagctccgta taattgggtt cgaccgcgcg ctgtagggct gtgtgctgct 1260
 cttggctgga atctttgatg tcagaactga gacgctgaaa cggacggcac acagaacagc 1320
 atctctctgg agtcacccg gaggtccaat ggaaccggtc gcctctatac cttcacccct 1380
 ctccctccag tagtagcagc atacctacc aagccactag ccgatgacac ttggcgcaac 1440
 cattgccac cagcttacga gattgagggc acagcatctg cttcattggg agtcttccat 1500
 aaggagggcc cgatgagacc gggaaccact ggtccttgcc aaacgcgaca ttcttaggat 1560
 cgcggcagac aagcactaac gatccttcca gtcgcaaaac gagcccgcc tatgcatctc 1620
 tgtggaaagg aaatgaagag aaacatagca gagttcgcat ttctgtctc gtcgttttat 1680
 cttgcagctc cggattacgt gcagtgcgt cctgattctg cccctctgct ta 1732

<210> 2373

<211> 2207
 <212> DNA
 <213> Aspergillus nidulans

<400> 2373

```

aaccagatcg aagaaaggat agacatactt caatggtgcc gggcacagtg cattgaaccg   60
gattccctcc cgagcatgca cgatcgccag ctccctcgtc agcgccagca cagcaccctt  120
ggacgccgtg tacgccagct gcggcggtgc actcccgacc agcgcaacaa cactcgccgt  180
gttgatgata ctgcccttgc tcttcttggt tctccgcatg ctcagtaccg catgtttaca  240
tccaaaccac acgcccttga cgttgatggt ctgctgcaag tcccaaattt tctcaggagt  300
gtcgatggca tcggcgctcg ccgctgcatg gattccggca ttgttgaaga tcacatctgt  360
gccgccccag gagtcctggg actcgaccat agcctgaacc tcggattcct tggagacgtc  420
gcacttgatg gtctcaacac ggggcgcgtc agggacgagc tctctgacct tcgcgagggc  480
tttttcgaga gccgacgcgg agatgtctgc catcaggaca ttggcgccct cgcgggcgaa  540
taagatgcta gtttcgagtc caataccgct gttgtgttgc tgtagctgg gttattggta  600
tacgtgggct gtgtgtgttg tgtgggttgg gttaccctgc ggcaccggtg atgatggcat  660
tcttgccctg gagacggcct cggggggtag ccattgagag aatatgtatt cgtgaatgaa  720
aatcggagtg tatagcgacg ttgaggtcaa tgctaagtat taagaaggag acttggtatga  780
agctccagga gggccaggga tcagtgttgg gtgcggggca cgaggatcgg ggacgaacag  840
acttatctta cgtagttatc tcagataagc cccatagcta tagattgccc tgtgcccaca  900
gggacggact ctaccgaca ccgacaccac tgtttgccca tcttccaccc tctttctagt  960
cgatctatat tcctgttagt gagacgatcc ctatcataag ggataaattg ttactaacca 1020
gtgtttttca gtgtatttcg accttcaaca ggcacagtga accaataact cccgtttcac 1080
tcctttccag ccaccgtgga ccccgctgat acctaccac ctacgcttcg gttcctgctt 1140
ccctgctcg catctgttca tcgtcaaggc gcgaacgata tccagaatca ttacagaaat 1200
gtccgccaca gaagtcacgt ccgaaaacgt cgcgcaaata ttgcagaatg acacacgggt 1260
gaagctggct ggcgtcgacg ccgacggcat gcttcgctgc aagctggtct ccaagaagaa 1320
attcctctcg gtcgtcgatg agggattcgg tttctgctcg gtcatttttg gctgggatat 1380
gcatgataga acatatttcc gcgagcttgg gatcagcaac aaagagaacg gttaccggga 1440

```

tctcctggcc aaaccggatc tctccagttt cgcgcgcac ccttgggaga ataacgtgcc 1500
 tttcttcttc gtcagcttct atgacccgga tacgaaggag ccgttggttg catgtcctcg 1560
 gagcttgctg aggatggctc tgcgcaagcc cgaggcgcaa gggatatcgtg cgatggcggg 1620
 tggtgagtcg gctctggaac ggttgagaga gcagtgcata tactctgagt atccagcgga 1680
 atatgagttt taccagttcg caacacccaa tcgcaatgcc tcgtccacgg catccttctt 1740
 gaaagagaac ccggtcgagg cgctcccgtc gatcacagac gggatgttcg gatacagttt 1800
 gacgcgtccg attcataacc aagactacta ctacggcatc tttgatgcct gcgagcaatt 1860
 taactgtgag atcgaggggt ggcaaccga gagcggaccg ggcgtttatg aagcgggtggg 1920
 tgactactga actgtggccg ttcgtgtgct gacaacggat caggccttac agttcggcga 1980
 agccaagggg atggcggata aagcaggact tttcaagtat gtcttggctg actgcggatc 2040
 caaggacttg ctgacaagca tagatatgtc gtcaaataca tcggcacgaa acatggcatc 2100
 acgccgacct tcatggcaaa gccgcgcgag ggcttaccgg gcaacagtgg ccacatgcac 2160
 atttcgctgg tgaacagtga tgacacgaat gcgttccacc gttcaac 2207

<210> 2374
 <211> 1370
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2374

atcgaaataa tacactccta tagggagacc caagcttagg atctccacga tccaagctca 60
 ttgtcgacga gccgtgcccc cttctgaagc ttgccagatt ccggatctga caaagaagcc 120
 aagaccgctc ctgttccagc cagtgcata tgctggacga atgtcaataa gagacgacac 180
 cgcgacatgc accactttct agccgccgaa gtttctgaaa tctgcgacac cttccaacgc 240
 agactagaca gcaaaaggag actgttggga tttttgatgc ctcttgtcac tgtgatgaaa 300
 agaatcaagc cagctccctc caactcaggg cacttggttg caaggatgtg accatcattc 360
 ggtggccggt tcgtcatggt attcgttgtg agccgccata taccgagcca agtagcgctc 420
 tgactacctc taatctagtt ccgcagccac tccgagctga gttccccatg gctccattat 480
 tcccctatca tgaacaaatg tggggttgct gtgctatcgc atgctccttc cagcaaatta 540
 gagacatccg caatgtccag gagcctggaa ctctgtaca acacatcatg aatcatccca 600

tccacgggcc cettacaagc cgtagtgtag agccctctg tcgcggtga attcatttcg 660
 agtcccgaat tcgatcgca ggcgtgatga aaaacattgg aaaatgttta gtcttatcgg 720
 cgcacccaac tcttcagtct tcgttttctt gctcacgtag tcgagcgata tatgttctta 780
 atatagactc gagtccttcg tttcggcgtg ccagcatcat cacatccgat acattgatcg 840
 ttgaccgacc tgcgtgcctg agccaagaac ctgtcagcaa cacggaagac atcctgagac 900
 tggctaaaga taagggagct cacttcgca agctttcaag atcttgactc gccgtttcta 960
 tacggatgac ctctgtcagc cactttccaa cgtagaaagg gcagagaatg gcaataaaca 1020
 gccccaggcc caaattaaag ccagatgcca tttctgcgt ccattccata tctatatggg 1080
 aggtttaaaa ctgggaggat gtacctatct gaaccagac aagctcggtc agtgcaccaa 1140
 tgaactgagg tgtggcgctt acaccgagct tgattgtctc ctcatccaca atctttccaa 1200
 tggatagcca gagggcggat ttcaagcgt acgaaccagt gagtcacttt ctccgttcca 1260
 caaggcatat gcctaccttt ttgaggccaa cattctcatt tgcattccatt ttgctgggta 1320
 tgcgagcaag agtcaagccg gtctgagtag ccacactaga gagacttagt 1370

<210> 2375
 <211> 2378
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2375

gagtaaagga agaagatcag tgttcgtgcc attgtaaattg cagtgaatgg gtgaggaagg 60
 cacgggttagc tgggaagtct cccttgaagg tgaggggatg gtcgctctcc cgccggaaaa 120
 ggatccaggc attcagcagg tccggcagga caaaaataga aggttcaaaa agagatatctc 180
 tgtaactaga taccgaagtt ttggatggcg tagtgcctca accacataat ttacagaaat 240
 aaagcccgtc agatcatgga gcaaaatgaa aaaaaacga aatcaccaaa gcagagaaat 300
 gaagcaacct tacaacgccg cgagaagacg ccctccggtt tcaagaaata gtgtgtttaa 360
 accttcttct ttttcttggg tggctctgca tcattgtcgt gctttctgctt cttcttttcc 420
 gactcgccgc cctcagactt gcgtctcttc ttcttctcct ccttctcgcc cttgtctttc 480
 ttttcttct tctccttctt cttctccttc ttgtctttct tctcaacatt ggcattcttc 540
 atttcggcgt cgctatcgtc gccatcaacg tccatgctgg ccaaaacagc atccatagca 600

tttttctgat accagttagt tcgctattca gggatatagat gtaaattgag ggtgaacata 660
 ccatggcaac ctcgttctta gtaggaggag caccggtcgc gtagaattca agacgttcct 720
 caacctgctt cttgagggca tcaccgtact tcgttgtcgg ggtgtcgctg aagttgtcaa 780
 tgcgggaagc aatggagcac ttgttgcca agaagcgcga gatgcgaccc ttattcttag 840
 gaccagccct gccgatgaag gaagagtggc acagaagacc gtacttagga gtgttaccct 900
 tggctctcaa ggctcggaaa agagccttct cagcacccaa aatctggaca gtggaagcgg 960
 gatatttga caggtttgtc aagcttcag cgtgggagat aaggcgagcg ccgacgatgt 1020
 ctccgataag agcagcaagg ttgggggcaa ccacgttcat cttggagacc aggtaggagt 1080
 gaagggactt gcggtacttg gaaaggctga cgaccgttg ggcgaatgag atgacattct 1140
 ccatgtcaag atctgagata tcctgggcca tacctgcgtt tggcggcgtc gataatgtc 1200
 tgagcaacac cctcatcgtc ttcaacaagg gcggcaatgt cgtgcagatt ctcgtcagtc 1260
 agggctcttct tgtccttaat gaacagggcg agctggcgct aacgctgggt gtccgacaca 1320
 atcttgatga gctcggggaa gtgccaagag taccactcgc ggactctcat ggagaaagtg 1380
 ttgatggcct tgtcgagctg atcaaggata gcgatagctt gaatgatgtg gttgtcgctg 1440
 cgctgaaccg agaacttgac ctttgcacgc gagtacgct gaccgagacc gagttgtgca 1500
 gtatccatat cgccctcccg caattgcttc agcaacttgc tagcatgcag tcggactcca 1560
 cggagcatat cttggacgac ctcgctggtg tcaccggtct cgcagtccac gaaagaaaac 1620
 gcggacttga tgctggtagc caaattccta tccgcgagtc ctagcacaat gttctttttc 1680
 ttgctcggtt tgggcaaatt catctcgagg aaagagatca gcgtctcaga agcgacacct 1740
 tctgagatat cgttgatttc gctcagagcc tgcttggtgt tcctacgttg ggtcagtcgc 1800
 ggaccgcaca caagccaagg gccatagagc atactcaaaa ggcaagaaac tggcaagctg 1860
 gaccatcttg ccaaattttg ccaaatcatt cacaccctcc tgaacttctc tcaggttgtg 1920
 tcccacagca tcccccttgt gggcgacctt gaagagcgag taaccatag ggccctcgaa 1980
 aagaagatag tctgccatcg cgaatgggtg gaaatctggg tactttaata tatagcactt 2040
 ccaatctttg tagacaatcc ctttcgactt tgacggaact tttgaggcta tgaacctgct 2100
 gtcggccggt gtgggaattg aaaaagtgc ctggaaggta gatttgtaga gtcgaaccgc 2160
 cggagctctt tttttttcac agccggcgcg ctagtaagaa tcccgaatgt gggctttttg 2220

ccaaaaccac ggcctcaccg cattcaacgg gaaccactac tacaggttgc ggctacacac 2280
 tcgcagcacc aagctccttt tcacaatagt ttccggctcgt atgggctggt gctcttgagc 2340
 cgacaggtgc gcgtgcgacg ctcttaccta cagatagg 2378

<210> 2376
 <211> 2315
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2376

tacatcatgt atctgacggc ttttgcagag ctttgtcgtt cttctttcct ttctttccgc 60
 catcgtcgcc gccgttatgc gaaccgctgg gcttagattc cgaagagcta tcaactcacgg 120
 gaatagcaga tgggtgtgtct gaggaattgc ctttcgcttc agcttctctc ttctgcgtctt 180
 cgggtgacgct acgttgggtct ctatcgcccg ctttctccct ccgccttgcg aagcccgatg 240
 tcggagctcc tggatctaca gaagaacat gcttcccaga cgaatctgct tgcttgcgac 300
 gaggatcgcg ttcgacttct ttatcctcgg ttccatcatc attatccttg ttctcttttt 360
 tgtttgaatc ctctttctcg tctccaggtg ggggcttctc ttctcttoga gcggtgctgg 420
 aagaaaaggt acgaagggac ggcggaacgg agcggaaacg acgtgaagtc tctaggactg 480
 atcgggggcc gacattgtac ccgcctggag caaaaagagg ccgaagaatc agagatcgcg 540
 gtgtctggag cgcggctctc cagcggagag tctggccgcg gacatgctcc taacttctat 600
 gacgacagac gagacacaaa aaagtgtga gtaaacagcc acaaggattt gaacaaaaca 660
 gaaggtaaaa ctctgcgaga gggccaagag aatatcacia tagtccctgt ccggccaggc 720
 aatgacaaaag aggagggcat ggcgagctca ggcgattgat taccgaagca agcagttcca 780
 tcattccctc ggtgatcgga aaacattatt ccggccgggg aactctggtt aagccgaatg 840
 actgagaagc ttcgattccg ctccatcaat attcgcaaca gaaaaatttg gagaaattgc 900
 agcattaaac tctccccttg gcatgagtat actccggctt gcttcattcg ctaactcagc 960
 tcaactcgtc ttctttcttt caaaatgaac ctttcttcgg ctcttatgcc aaaggctacg 1020
 gctattcccg ggtgtatact gcgcacttca cgacaatgct caaacataa ccagacatcg 1080
 ggaattcgag cttcgtctctc aacacgcaa tatcatgttg ctgccattga atcgctcgcg 1140
 aggcgtcggc gggacagcac cttcatgaaa cgctcagact tcatccaagc tagggtaggt 1200

aacc caactc gaaatgtctc atcgctcgaa aaatggctga ccgctgtctt atctagaatt 1260
ttcacgctac gaaagtactt gcggcaatcc ctgacccgta taaagtcctg ggggtggata 1320
aaggagcctc cgcggggcgac atcaaaaagg cttattatgg aatggcaaag aaatatcatc 1380
ccgataccaa caaggatccc ggcgccaagg agaaattcgc tgaggctcag tgggcttatg 1440
aacttctatc ggacaaaaag aaacgtgaga cctacgatcg attcggctcg gctgcctttg 1500
atcagaatgg cggttttgac ccgagcgccg gcgcaggagg caatccgttc gctggcggcg 1560
gaggcttcca cgggttttgt ggaggatttg gtggaggatt cccgggcggc tttgcagcag 1620
atatcaacat cgaagatctt ttcggcgctt tcgcgggtgg tgctcgtcgt tcaggtcggg 1680
gtagacgggg tccgttccaa gagattctag ttggcgaaga tatcgaagtt caaaccaata 1740
tctcgttcat ggaagctgcc aaaggtactt cgcaagacat cgttatcact ccattgaagg 1800
agtgcggtac ttgcaaaggt gacgggttga aagagggtgc aaaacggacc caatgtcgtc 1860
aatgcaatgg tactggaacc cgagtccact tgatgcaggg aggcttccag gtagctgcta 1920
catgtgatgc ttgtggagga gctggtctta ttgttccccg gggttcgcac tgcggcacct 1980
gcaagggaga tggagtggtc cgcgagcgga agacagttcg gttgatatt cccggtggtg 2040
tagaagatgg catgcgtctg aggatatccg gtgagggtga tgctcctcct acgggcacag 2100
cagctgcacc tggcactcgg acgcagcgtg gtgacctcta tgtgtccatt cgagtgtcgc 2160
ctgacgagcg gttcagtcgc tccggatccg acatcctcga tagggcatcc attccactca 2220
atacagcgct tcttgggtgg gaagttctgg ttctacatt ggacggccag gtaaaagtca 2280
cggttgcgac cggacctgga accggtgaca ggatc 2315

<210> 2377
<211> 1585
<212> DNA
<213> *Aspergillus nidulans*

<400> 2377

gatgattgga tctcttttgg agtcgacatc accgtgctct cgacggatgg ctttcgtgta 60
catttccatg tactttttga aatttcggac gggcaaacgg gttccattta gcttgactgt 120
cacgcccgtg gtaccagcca ggtcgtagac tcgtcgtttg ataagcgctt caaaatcgtc 180
atcgatgcca tccatgccaa acctgggaaa gtcggccttg aatgttacc ttgtgaagac 240

ggatccctta gcagcgggtga tcttaggttt gccacagtt tgcattattgt ctgtccaagt 300
 ctggagggtat cgtttcttct ttttcgaatc ctgagtttcg actgtgaact cggtagaaaa 360
 gacgttacia agcttagcac cgaaaccgtt tcgaccccca gtgatcttct ccttggcatc 420
 atcgtagttg gaggacgtca aaagattacc gaaaatcaac tgagggatgt acattccgtg 480
 ctcttcgtgc atttccaccg gaatgccttt accgttggtc caaacactga tttcattggg 540
 ctcccggctg taagttactc taatctcgtc catgttatcg tcattctgct tgttatcggc 600
 cgcgttgaca acaatttcgt cgaagatttt gtataaacgg ggaacgtagg agacttcccg 660
 aaactccatc cgtcaatct cggaattgta caccacatt tctgtgtggg tccgctcaac 720
 tgagccgata taagagtctg ggcggattgt gatatgttca cggagattca actaggtaga 780
 accgtcagtg cacggctcct tagggccttc agcacgactc cttacctttt ggtatttgct 840
 agacgctttt acttctcgg atgcatccac atcgtaatt gggatcgatt cattttcgac 900
 atcggcgagc ggtttgaagc cgctcttctt tgtcgagct gcagggacct tcttcgggtg 960
 tgtctgcgag acacggagtc cacgtctagg gggcatcag gatccgacat ctcgctcttcg 1020
 ctgtcgctt ggcttcttc ttcggcttga cagctgcttt ctttgcctggc gcttttttgg 1080
 gggctgcttt cttcgcggcc ttcttgggct tctagtagtc aatcgcaatc agcaaaaatc 1140
 attgcggagc attgaggaca tttatgcgta cgggagcttc gtcggtcatg aaatcggagc 1200
 tgccgtcatc ggagaagacg gagcccatca aagagtcgtc gtcgctcatt gtgggtcaag 1260
 ggcgtaaata cgcaggagcc ttacggtaaa atcagatgca gggtaaccgg ataacaggag 1320
 ggcaatgagt gacaagagga aacaaaggca aattggagac aaaagaggtc gcgtcccacg 1380
 cgaggactcc tttgacgagg agggaataaa gagcgagaaa accacaacgc ctctccacg 1440
 gtctcgatga atgttgtgct gacggtttgt tggcgacgcy caaagttgaa acctgcgccc 1500
 gaaggcctca caagtagtgg atggtttctg cccgatcat aagttacccc cgtccgcacc 1560
 cgaaatggga aaactcataa cagac 1585

<210> 2378
 <211> 2157
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2378

cccgctcgta gcgggtaggt ctccaacgaa ctcccatatc ttcgatacgt gtctcctggc 60
 tattgacagc cgcaagaaca atccagagct tcgacatgac atgatgcagc gttggctgga 120
 catgcgggcg tctcatccag aacggatgtc tgaggaggat atctttgggg ccgccgtcgc 180
 taatgttgga gcaggtgcgg agacgattag ttcgacggcg caggcggtaa tctactacct 240
 attgaaaaac ccacagtatc tggctacggg cagaaaagag cttgatgagg ccagggcgaa 300
 gggagaactc tcggatgta tccagtatgg cgaggcgacg aagttgccat tcttgaggc 360
 ttgtgtgagt cacctacttc cgggctcggt tttttctcgt ttcttggtggc tactattctg 420
 tattctatat atgatgctaa tctgtctggc gtgggtggga gttgaaagaa gcataccgct 480
 tccaccctgg tgtttgccat aatctgcctc gtatctcacc caaggggggc atgacgattg 540
 caggcgata tttccctgaa ggcgtaaggc tcaaggcca taaatacgcc ttccatactc 600
 ttgatactga aattaagcga aactgcaggt cattctaagc gtccaccctt ggggtataca 660
 ccgcaacgcc gacattttcg gtgctgactg cgatacctac aacccacccc gctggctgca 720
 aggcgacact aagaggatgg actatttctt gatccacgta cgttcctccc tgattgcctc 780
 tctcgttcac ctcatatatt taatgtactg atgaatacag tggggtgccg gctacaacca 840
 atgccctggc cggaacctgg cgcaattcga gctctccaag gtccttgcaa ctgtgctgcg 900
 agactacgat atcaaactca tgaatccgaa gagcgagtgg cgcttcgaga ctcggttctt 960
 ggcagtgccg tatgggtggc cgtgccagat tcagaggagg aagcggggga tgggtgcagg 1020
 agctgcatag ggtcttggtt cggcgcgag aatgggtggc aatgtctgat agcgaattgt 1080
 ggcgttccga gtactaatcc ataaatctga acagattttc ctgttccctc agcatgctat 1140
 tgcctgacct aggttgcgaa tgggcccacg agtttcagtg gcgtcgtgcc atgggtgtcc 1200
 caactggcgc cggttgccgt tacattatta actgccagga actgtggtta aagtcatta 1260
 taatgcttgg tatgttgagt cagagcccgt ctcttctagc tcgtaaggca tgtagtgtgc 1320
 cggagagatt ctttacggat tatcttcagc tcctcgcgct agatctgcat ttacagctac 1380
 ctgcttgaa tctaagtctc agtgacgaca taaaagccta aatcagtgcc agaaatgggg 1440
 gttgcgtaac tcgcaacggc cacgggtgtt aaaaaccgga gaactgcact ccaatgctgc 1500
 tccaccggtc aaagcgctca ttaccgccac agtctgaagt tttggcatag tgctactcgc 1560
 gtttgtgaca acgtgagaga gtgggttctg aggaggatca atatttgctt ccctgtgttc 1620

cacaatctaa gaacatacga tgtgcatct gcggtgggga cgaagggttt ttaaactaga 1680
 ccttgaggcc gcgtataaag gaatacggcg gataagagtt gaggtgctcg gagattaact 1740
 cgagcttaca ttccaaaca taagatgcgc tagaatagtc atagcaattg atcagttgca 1800
 tgagtaaggc aggcgtggaa ctacctaact aagcgttcgc cggaaagagg tgaaagtgcc 1860
 gtcctacatt gagacttttg gggccgtgag ttggacggga ggcgcttgac catagtgcgc 1920
 atacttaata catactgacc aggactccat tcatctgctt cgagaaaaca gggcgatggt 1980
 ttgtcttcga atctgctgca agctgggcag cntgctgca cctagaccat gtccctatca 2040
 accatttagg gtttcaacag attccatccg tcccttctgc acatcttgat gccttcctaa 2100
 gactatgcan atcatcccc ttgaaaagg agttttgacc cggttaacag ggggtata 2157

<210> 2379
 <211> 3373
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2379

ctatggctca ctcaactctg atcggtctaat aaaaaaaga gggaaatacc actccaccgg 60
 gctctgaaaa gaccaatgat gccaacgggc ccagttccc gaaagaaatg ggtccagaaa 120
 ctcttttatt tctggcctat acgccagtgc caacggtgtc aatcctagtc ctgtcccgaa 180
 gatcgtcaga gatgccgatg cctcgacggc atagaactcc tcgactagta tcgccgcttc 240
 aacaaggctc ttgctgcccc cacctacggc ggcggggatc tgtcctttta taaggccagc 300
 tcccactgcy gcctcgtaga ttggtttaag cgagcgaaaa cgatcctctt gcgttggaag 360
 cgttgcgatg gtttccttcg cgggcgcaag atgtgcagct gcgaaggcgc gcgctgctga 420
 gcgagtcgcg tgctctgaaa gagataggtt gaagtcaacc attcttgca ctactcagtg 480
 ataggtaact tacaaaaagt gaggtagaag tgcggagatc atggtaagct ctgtgctcag 540
 ctacagccac tcgccaagta aaggttacat ggatgtcggc cgaatccacc aattgttagt 600
 aaccactagc actagtctga tcaggttgca aggactcaga atgaagaaga catatgctta 660
 gaaacgcggc gatacatgca gtacaccagt cgcgggccag agagagcttt taccgcgtgt 720
 gtacatggg ctccaatatg agtgctttag tatcatgaag tgtgaggaat ctctcagata 780
 ctggtgttta ctgggggtac acgctgtcgc aggttgcca cactgttcag agcccctgaa 840

cgtcacacat gctcccaaac gcaggacgaa tatacacaac cttgcgaacg ataagagtac 900
 aagtctcaaa ggctcgtcacc actgaaatgg cgaaataaag tggctagaca tatccctagt 960
 ccgctggggg acaagacaca ctttgttcaa tgggtgtgtt gcagcttcgt tcacgttcaa 1020
 tcctgtcact cccaagctcg ataagaagtc gagactacgg ttgagctgcc taagtagggg 1080
 ttctcgacgt gggctatggg gatgtgtttt ggggtctgaa acgctgaagc aaaggagaca 1140
 gttgttgttg tctagaatcc aatctgcaat ctagattcaa ttatgggaca ggacagagag 1200
 tgaggatggt ttccagtagg tatcaacacc accaggcacc gcaatgtaaa tctcgatctc 1260
 taatccggag aaaattgacc ccagggacgc ggacgcatcg agagcccaat caggaaatag 1320
 ggcaacgata gcgggggttag ggcgataatt atgccatgac gtcaccatct ctcagcttcc 1380
 aagtttcaat tgatgtctat tatgttaaatt caccctctgc tcacaaacta tcctaaagtt 1440
 tctcaaaact caacagttat tatcaaagga gcatccggac tgcagatatg taccctccg 1500
 cccgcatccg tcgcagcgac gatcttgcca aactagccga ctaccatata cagcatgacc 1560
 tctcatcgtc ggaccgcat gcgctgaagt ccgccgcaaa gaccgtttcc ctctggacaa 1620
 cagtcggatc agcagttggg attggcctcg gactttacgc tgcgttccgc ttgcgcactt 1680
 cgaggaaggc cttctttgat gtctttcgcg cggcagagaa gccgacccaa gttgtctttg 1740
 cggatggacg gaccggtatg tgtttcttgt cccttgcaat ttcttattca tagttgcaaa 1800
 gaggctaata tggatcagag gcgattcctg atatcacgcc gctgctcaaa ccaagcacgg 1860
 tgggagactt tgttacctat ttctcgct ccatgggagg tctctttctc ggtggtgacc 1920
 tcggtaagcc ttcattccgc tcctggagtt cataaattac tgacattgag gcacaggctt 1980
 tcttggtggt gcagcaagcg gaagccggac gctaacaggc gatcctgaga gaaagaagcg 2040
 gattgagaat gccttccgga gcttccgtgc ggacacgctg cgaaaggaag ccgatgagct 2100
 agagaagggc aagtcagtca cagacgagat gttctgaggt gtaaategga gtgttgaaag 2160
 cagtcttgac tttctgaccg attgaggaaa ttgatttatg tttagcccca atattggtga 2220
 cggctctgta cgattatgat gtgggggacg atcttaatcc tcagtatatg tactatatct 2280
 caaagcgcac aatttgatag gcctggatgg cctctgttac gtttcgccat gtctccatga 2340
 gcgtcaggtc acaagcaacg tccttctttc aaccggcgtt tgtcgacaca gttctatcaa 2400
 ctctcatcacc agttccgcat ctctaggctt gactgcaagc tccgtctttc cggaatggc 2460

ctcatgcaca ttctcgtaga aatggtgata tcttcccggt atagatcccc agtcctgcgt 2520
ctctatctgc cctccgtcaa tcacctggag tgtacctttc gattaacgtc aactgggggct 2580
ctttatatgt ctctttatca acataccctg actgccccca tcttccagcc cgtagctttc 2640
atggccagga taaatgcctt tctacagctg gtctctctgg atatcgagct cgtacttgac 2700
ccatcggcct ttagtcccaa gcacctcaaa tctcttctgt ctatcgctga caacgtactg 2760
cgtcgaatgc agctcgactt gtaccagtta gagaagcaca acagtacccc gcccggggct 2820
gagcttaaaa cctaccttgt agacctttct catatcccaa cactattaaa aaaccattat 2880
ctacaaatcc cttttctcta atctccttgc cgttgccctc gtcaaacagc aatcacgtca 2940
cggctctttg cgttccaaag agaacaagaa cctggtcgat caagtggctt cctagatcaa 3000
atagcattcc tgctcccggt acaccgctag ccaagcgcca cttcttcgat tcgatcgccg 3060
tccgcgagtt cggcgcgcag tcaaaatggg accgaagccg gactatcgag ccaagtaagt 3120
tggttgggct agcgagcaga gcgcgcaggg tcaggaagtc tgagtcccat cttctgtctg 3180
ctcttgtcag ctgcggatgg tactgaatca tgattatcag cagaatccac tgtggtaaac 3240
cgcaagctgg agacctgttc tctcagcgag accggcgagc tctatcgctt cagcgtagtt 3300
tggttgtaaac ggtttctcga cgatcactgc gccacaatct atcagttaca gctctcgtct 3360
cttgtccgag cat 3373

<210> 2380
<211> 2232
<212> DNA
<213> *Aspergillus nidulans*

<400> 2380
gccagggaga cttgatagaa agaaatcagt ccgcccgatc taccatcgat gccccgaatc 60
acaaacctgt tcatcgtcg caagaggatc gatacttgac tggagatcat tcggatgctc 120
gatgtacttc agaaaatgtt ctttcagtgc aacataagtg ctacgcgcct ccgagatttt 180
gtccggccat tgcttccgat taaggctctc aaatagcaga aatgcctaga tctaagtaag 240
catagaatcc gagcgcatac gagaggatat gtgccttcca acatattgat ctacgcccac 300
cgttgcatat actatattct tgttccgact tgagggcctt tcggaggtct gaggggtgat 360
cacggccgtc gagtaggcta ttccaacgct gtctggagaa atcgtcaact aaaaaaacgt 420

tgtaacagaa aaagcgact ctgaaaatat acctagaatc ttcaacaccc ctcatTTctc 480
 catgtggatg tgatgcgatt gatgatggtc ccagggagcg agggtaaagt gaatcaatag 540
 agattaagag atactgcgga ggtacaaatg acgaaggTca tgataagggc gggatcgtca 600
 tcggTTTTct ctccgccgac aggatccaac tgtcaactca cacggaacac atgtttcgat 660
 cagacatacg cctaccaaaa gcgagggTtc acaaattcta tctccaatcc gatttgaaag 720
 aaatagttaa gtgattacag gctgaaatTT agctgatcaa atcgaaaatc gtcgcaaatt 780
 ttatacccag taaaccaacg cacgacttgg tctccctacg agcccttcCG aatttcttaa 840
 tggTgcgtgg ttcggttttc gatgtcggca gacttgTtcg cagagttcgg atatgcagca 900
 tctgctagcc agccttcaca agctgcatgt cagcaagcag ttttaactca ggatgcaaca 960
 ctggtaccCG gcctggattc attcgaagac gctacaccgt cccaactctc tctctgccat 1020
 ccgcacgagc tcaagcagcc gtcatcccag ccaagcttcc agaatcagct caagcaatta 1080
 gacgatttcg gagatTTtga gctaccacag ggcgggaata ataatgatgt gctcttcgac 1140
 gccaccctcg agaggTgttc ggataacggc agcgatgatt ggggtgattt tgagtccgca 1200
 gaagtTactg ttgggcaact cgccaaaat ccgacttcCG agtcagttaa gagtgaaaaa 1260
 gctgtgagca agccggTgcc caaggctcca ccaaaccaca attcagcttc acgatcgtta 1320
 ggaacaccgg atctcttggg gcccatggaa tcaattacaa tacagaacaa gccgatggct 1380
 agtggTcatc aaggcaataa aaagcctggg ggtacaataa atcgcagtaa cgtacagtac 1440
 accaaaccaa gactgccCGt ggaagacgaa cccttcgaag actggggaga tttctctgat 1500
 ggacctacgg aggctagtca aaactccaac ttggaggtcc ctgagtcca agtctccggc 1560
 aagaggaaaa acttggcgca gccatcaaaa gccactgcaa gcctaagagc gcagactagc 1620
 aaacagtcgt catcgacggT acaagttcgc ccaacgaata ttccacctcc gtcgatttta 1680
 ttagagctat tctctcagct ttttgagcgc ctgcgccaa agggcaccaa agcgaagaga 1740
 aatctgcaac agaaggatac tctaaattca atagctgagt ctatcacttg cactctaaag 1800
 actgttgca ggattgttgC aggccggact ctacgatgga aaagggttc aatactgagt 1860
 cagagtatgc gaatcgccc cgcgcgTtcg ggcaaagcag gggggatgaa attaagcagt 1920
 gtcaatagga atgaagacat caaggagcaa caagaggccg tggatatcat taacatgtgg 1980
 cgggatcgtg ctctcttatt caactccgTc gttcaggcag cagggaggcg accagtgcag 2040

ggtatcccca acaacactcg tgtcataatc gctacagcca gtcagggagc cttaaaggcc 2100
ccacacgcgt gtgccctttg tggactaaaa agggacgaaa ggataccgaa ggtggacgag 2160
aacgtggagg atagctttgg cgagtgggtg acagaacatt ggggtcatac tgaatgcaga 2220
caattctggg ag 2232

<210> 2381
<211> 516
<212> DNA
<213> Aspergillus nidulans

<400> 2381

acatcagaat tcgcggccgc ataatacgac tcaactattg ggatcaactt ggagaagagc 60
atgagctatc aggtcgacca caggcaggcg agtgtctgag aacagcggcc gtcttgccgc 120
gtgcatatat gtccgaaggg actggtcgaa tctttaattg acctcacagg cgacgagcgt 180
aagcagaacc ctggccaggt tggagctcga acggctggga aaagtcaagg cccctggggg 240
agaaaatgga ttgctcccgg cgctagggac tggttttttt tccctcatcc tggtaggtca 300
acagccgttt ttcacgtga attattaatt cggattcaag gtccaatccc gacgagcgca 360
gcacggcaat tccagaatgt tggtgccgac gtcaaacc caatggcgaa gaaacggcaa 420
ctgtggttcg cctcatgctt gcgctcaacc ttttcgaacc aagaatctga tggaaactctg 480
atggcgaggc cctgacagcc acagcgacgg ccggaa 516

<210> 2382
<211> 1563
<212> DNA
<213> Aspergillus nidulans

<400> 2382

gcacagacag acttggtccc atgacaatgc acaggtccgc cgtctcggac agtggtcggc 60
tgtcaaagaa ggccgagggc aaagcttccc cgaagaaaac gatatctggc ttcactagcc 120
cttgacactc ggcacaattc ggcacctccc cttttgcgat tgcttctttc atcaggtcgt 180
ccggatacgc tgttttgcac tcaatgcagc gctgagtcgc gaagcttcca tgagcttcaa 240
tgatcatatc gcccggcacg cctgccaacc gctccaaaca atcgatatc tgtgtgaagt 300
gcttcaaaag ctttcccttg tcataaagta gctttacgaa tgaatgcgag agagtaggtc 360

tgtactgtcc tggagctagt cccgcgccag agcgtagaac ggcttgggat tctgcctgaa 420
 gaagctaata tcaaactctg cttcaggatt gggcagatcc aaatgaacga gattcgcgta 480
 aatgccagta tctgggtgatc gaaaatcagg gataccggcg gctgtactga tgccagctcc 540
 gacctagtat ttttagcgat ggatgtgggg gaggggcagg taagacgcag acataccatt 600
 acaaccaccc gccgcactgg cttctccttg acatattttg cgactgcctc cacagtgcga 660
 gcttctaaga ccgacggagg agtcttctcg tctacgagt tagacgattc attgcccatt 720
 atgcggcgac gaccagatct gggcctggcg tgctgggtgc tgtctctgcg ccggcgccct 780
 attttgaccg aaactgtagc aatacgaaac gctaataac cagtagtgag cgttcagaat 840
 ctgctttcca acagtctgtg ttgctagaga cttgggagaa gatagatgat cgcctgtatg 900
 acgttttatt ttgccaaaat ggctgtgtgt gcctaaggca tcaaggagtt tttatatatt 960
 gaccatggat ttcccgggtt gccagcattt ctagttagcg actcgtatgc tctcaagatt 1020
 tgcaatatct catcttgagt tctactgcctt ctgatcaagt caattggcca gaaagttgaa 1080
 gttgcttcag agatgcaagc aaagagctcg ctccatcctc accgccctcc gtttctgcca 1140
 caccagcgat ttgttgtctc ttctgcctg atacctttac cccataggat ttcatttggt 1200
 gacgtagact gtctcggatg ctgcgactgc cgggagaatg ttcaattcca cagtcaatgt 1260
 tgtcaacgga tactcggaga cagagctaac tacgcaatct tcgaactcgt tttcctccga 1320
 tatctacaat gctagctccg tcgccgagat taaggccacc ttgacccaac tgcacgagca 1380
 ggaggcggca gttacagctc gcctagatgc cctcgtcgcc tcacagaagg atttctcgcg 1440
 tgaattaggt cgattggacc ttctccgcgc ccaccttggc tcccaaaca gcaccacacg 1500
 agcgatcagc aatggcatgc tcgtgggggc cgccgcaacc gcagaccgca tctccagtgc 1560
 tgt 1563

<210> 2383
 <211> 2781
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2383

tggtcgtcgg attggatatg aagggtttt gaacggggga gtcttctttc ttaacgggtc 60
 tatgcagtcc gccttctttg aatactggag gcaggaatcc tgggtgtgccg gcgtactgtt 120

tcaaccaagg gttggcctcg acacacttgt agcatatgaa ggtctcgaaa tcctcctcgg 180
caggaaattg gggaggcaga ggcggctcat ctctgtcttc agcttggttcg ttcgagtcac 240
cgttatctag ctctccttc ctgattgaat tcttgtagca gtctcgtggg agcccgataa 300
gacactcagg gtgccaccag tcttcaccac aaccaccagt ctctgtcgtc cccaacccaa 360
ggcactgaaa cattgtaccc ttctcttcac gtgcgttgta gtcttcacca cagccgcaaa 420
acttgttctg gaagttccta ttgtatcgat tgccagggtg tggcttctcc gaccgaaccc 480
cctttgtgcc agtattggga tcgtacgca gactgcacgg ggtggaggaa gtgatacgag 540
tggttccgca gtcgcacaca aagtttcttt tgttgaagag ttcgacaagg gtatgttcgc 600
catggcagga tattgagcag gaatagcaga cgccggcagc agtgtagggg gaatcaggag 660
tcgggggggg aggattgcag gtcaaacaag catatagtgt ctgccgtagc ggtcctagat 720
gttggtgaca cgaatcaaat gactatatag ttagttgcgc gcaatttgat tgcagagagt 780
ggattgcacg gcatagactc acatatggga ggacttcacg ggcactctgc tcgaggcgca 840
tctgagattc gatgaatctg tgatacacat tagcatacaa catgataagt actagagcaa 900
cgcaatgtcg ggccaagta acaccaattt ctactcact ctctcgcagt ctgcgagttc 960
tccgagctgc agctttgacg gcggctgacg gtatgttgcc catcgctcgt cggagcaacc 1020
ggaggggatg cgacggcttc ctcgttgctc atcttccttg acagtaatcg caacctattt 1080
gcaaacggat tcacaggaat tggagagatg aaatagtcaa tatcagtgag agttcgatgg 1140
ctcacttgcg atcagttact ccagatggaa gccaacgcgg aacgcgagac acttgtttgt 1200
cctgtttgca ctttctgtat tcaaagttcc gcaagggtgac tgagggtaac agttctctta 1260
ttgatgactg ctgagtttca gaagctgtac ttccagaca gttaggtata cttcaagaca 1320
tcgtcccaca gttttgcagg ctagagtggg tgggaaatcg tagtgtcccg gctccaggcg 1380
tcaaaagcta tatgtccaaa tctggtataa ttggaaaacg cgtgtctcgc gctaaaacgc 1440
gtcaggctcg gttgccaagc aaaactcgca cctcgtctgt tcgtctcttg caaacccaga 1500
actcgacaat acgttttgtt ccaactcata gcatcgagac ctagctctca tattctttca 1560
aataccaaaag tacacacaca atgaggtatg cccagacct aatttccatc ttattctag 1620
tttctaagaa gaaaaaaaaa agttcaccgc tccgtcagag cacatcggct gcaaaccgcg 1680
gtttgggaaa tctgaatcgg cgaaagcgat ccagagagcc tgatgacgat gcttcgtccg 1740

tggttccccc ttcaagccgt aagttctgga aggtcaatta gagggaaatg tcgcagttag 1800
 gctaactgaa acataagcgc ccccttcttc ccttcctatg ttgcccttcg acgaagacga 1860
 ggacgagcca gatgaggaag cagaacttga cattgatgac attgaggaga tggcagagga 1920
 tgaggatggc attgaccttt tcggagatac attcgagcgc gactatcggg gcggaaaaga 1980
 tgaccgctac cgcggacgat acattgacga cgatgagcaa gaagaaatcg acattggtgc 2040
 ccgacgagag ttgcgaggct cgcctaggat cgaagagatc gagaacttgc tcggcgccgc 2100
 caagtgcccg cagccttctt gcaagatgac gaggacggtg atatcgattt gactgcacag 2160
 ccacgccgtc gcaggcacgc ctacgacgag gaccgcatg acatcgaaat ggctgacgac 2220
 ggctcgaag agctttccct ggaggagcta gtcgatatca aatcatctaa taccacggac 2280
 tgggtgacac agcctcaagt gctgcgctct atttaccgag agttcaaggc ctttttgacg 2340
 gagttcactg accccactgg tagctctgtc tacggaaaca agatcaagac tcttggtgag 2400
 gttaactctg cctcgctcga ggtttcatat acacacttga gcagcaccaa ggctgttctt 2460
 ggggtacttc ttgccaacga gccacagaa gttctcaagg tttttgacca ggttgctctg 2520
 gacgttacct tgttccacta cctcaatac catgatatcc acaatgaaat tcacgtccgg 2580
 atcactgatc ttccattgt ttacacctc cgccaattgc gccagtcca cctgaactgt 2640
 cttgttcgtg tcagtggagt cgtcaccgc cggacgggtg tcttcccaca gcttaaatat 2700
 gtgatgttca tctgcaaaa gtgtaacatg acgatgggcc cttaccagca ggagagcagc 2760
 tctgaagtga aggtcacaat g 2781

<210> 2384
 <211> 3037
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 2384

aaaataagcg atcggaacag agatcagcga aaggtccaac agatcacaga aatagaagca 60
 agtattaaaa agaagctctg actgagagaa gaaggagagg aaggccgagg aaagtgaagt 120
 tgcgttgaat tggcgagggtg aaggtctgga gtcgttcgaa aggacacgat cacagttcac 180
 tggtcgtatg gtcacgtatt gtcatatctc aattccccg ccagattagc cagccacgac 240

acttgttccc gcttctagt agtaacgata tttcactgcc actggactcg cccgaagcga 300
 attatagctt tgaagtttgt cggtccttaa caagtcgccga tagcaagtcc aagtaaaaat 360
 taatgtgcaa gcaagctagc aggtgggttac tacttgaaaa tatgtagtca taattatttg 420
 acgtaaatgt tgatagctaa gataggaggg aatagaatgt tcatcaagcg gcgctatggg 480
 tactttgaac tgacatatgg acaatagagc aaaaatgtaa gcaaccaga ctttataatg 540
 aaaagccgta acaaacccca ataacgtagg aaaggtatca tagtgtaa attcgaaaga 600
 cgcctcaatt caatattcag tcgagacatg gccaggtggg cgcataatata ttgtctcatg 660
 tacagcaccg gcgaaggaaa caagcatacg agatgttttt agtcgatcat cattcggttg 720
 ggacactgac cggcaacgtt cgacagctcc gtagagccct tttcccatc cttgcccttc 780
 tttttcttgt tgatgtgagg cttcagcccc ctgtggaagt tgtgcatgca cacgcaggca 840
 ttgataattg tcatcacgat caatatcagt gtaatgatgg caaagaatgt cagagatcgt 900
 cgggcagttg aatagtcatt ggcggttgct ggttgataga tacgaaccag cttgaagagg 960
 aagtacgcca tggctgcgaa ataaagaagc tatcaagtgt taggataatc caacatcaaa 1020
 tgaaccagtg gacatacaat aatggcgatc attcctatcg agctctcacg cttcacgaat 1080
 aatgctgcac agaggaggat aaggattgta accggtatgg cggcaatggg aaggggcaa 1140
 tctgtgtctt ttctgttcgt aacaatgaca aggaattgga tcgtgaaacc gaggaagaag 1200
 aaaaggtcga acttaagcag cgcgatgtaa atctggcaag acgttaatac ttcacttgaa 1260
 tccaagggca agagcaaata caccgacctg gtacgttaga taacgacgct tcatgcgcag 1320
 atcagcgtcg atgtgcttgt agatggacca tgcgaattca tcataaagct tccaggcgac 1380
 gatcatcatc agcacactac ccatggccac aacgatcgga ataatagataa ggaacggttg 1440
 agtttcggcc cagatgtcag ggctgactgc atcattatcc gttaggactg tcacagcttc 1500
 cttgatctgc tgaacctgaa ctgcgccata aaccaacagt ccaatattgc acaaacacaa 1560
 tccaataacc tgaatggat ttttgaggcg caaagcgctg tacacgagga atagtctgta 1620
 gagaaatccg aaactgtaca gtgcaaggaa agttgggatt gttttagagg aggtcacaag 1680
 ttcggcttcg gctgtgagtt ggagctggaa gtttgcaag atatagctgc aagtcggccg 1740
 ttagaaaagca cgggggataa gatgtccaga cgcaaacata ccattgcaga gcaagggtga 1800
 tgacggtttg aactaatgtg acgatggcaa aggaccacgt ccaaagggaa ttcggtttgt 1860

acatttttgcg tcgttttaggg gccgggggaca catttgtata gcctttctctc ccgcggaac 1920
 ccccgatgac tcgtctgaac gaaggatcaa aggatccgcc gaacagggaac gctcgtgatg 1980
 atgtgtggga ataaatcttg acaaagtgtc ccgtgacgga gctggtatcg tctaagtatt 2040
 cgggctgtgg gtacaatatg gcggtttacc accgacgcgg tggttaagcag gcggaacgcg 2100
 gttcgtgaac ggtcaggagg cgtgggtatac tttgtttcga cagtccggcc ctgtttgtca 2160
 cacggcgtcc tagacactgt ttcgtctcaa ggccgtttaa gtattcagga ggtgaccgat 2220
 ctcgaccgga gtcaataagc agcgacacca aactttctcaa ctatcataca acctccgaca 2280
 gaaaccccca ggttgttagac cggtggactg gggtaaaccg gacgagagga gatcgcggtc 2340
 gcagcgtaga aagcttggtg ggtgatggct tggatctcca gaaagggtgt gccagccgc 2400
 ctgtgatacg ctgtagtttg tcgggcgggg aggctcacat cgattgttcg ggcgaggtcg 2460
 aaggctgagc tgcaggctgg agggagtcgg ggatggctaa ggatcgggtg agggtgaaag 2520
 cgagtgactg ggaacgaaag aatcacaagg tttggaaaga atgaaaagag atcgacagac 2580
 tcgactcga aatgagggct gggacaagag gacaacggga ggagtggag aaaaatgcag 2640
 acaataatta gagagattct gggggacgcg aaacagcggg agagtccggt aatttccagg 2700
 ccagcagac ttgctgggtg cagagccgtg gttgaaggcc gtttaagggg aggatcgggt 2760
 ggactggctg actggtacgg ctacgcctt acgtggttca tttgccaaga ggcagattt 2820
 tacggccttt tctgacagt taacgcgcca cttaccttt tctgtacgtt accagactat 2880
 ccacctttt caattaatga agttttggcc gaaagtccac tctttaacaa tggacccgc 2940
 tgaaattagt tttgacttgt tccgtcctta ccgaaaaaaa ttgccaaacg gtaggtaa 3000
 tttttacgcc ttccctttta ttggggcatt tctgccg 3037

<210> 2385
 <211> 1752
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2385

cgtttaggaa attaacaaaa gattggaaaa tgagccgtcc gtctggactc cggatcttgg 60
 gtccattctt aaaaggccag ggccttcccc ccatgtaatt gccatogaac tgccggcagt 120
 gaagatcggc taagggctct gccgccacta cgccgaaaca ttggggggaga tgtgggggaa 180

agtcaagact agctgtcggc ccgaaatcga ggtcctaaat aggtctgagc gatatttgag 240
 agagcatcat ttagacgatt attattattg ttgtttcaga aaatgggtgc tgaaatcaaa 300
 atgtctcttc aactgttaag cacttttcga aaacgtgggc cgccgcggga tctcgaggac 360
 tacagaagta ccagtatact ctgtagcgtg agccgcatca ctgatccgac atcagattat 420
 gtcagcaggt ttcgggaatg cttcggaaga gtcggaggtt tctatgaagt actccgtaca 480
 tagtgatttc taagcttatg gtagtggttc gaaacagtaa gcgaagtgcc gaacgcttgt 540
 aaactaaaac tgggggtcat agggatatcta gtcattgtta aagtatcatg cactatttct 600
 ctgcttatat tcatcagtaa tattaataag tgacagaatg tgccaaagct cctgggtccc 660
 atccataaat taacagacca aacaggaccg aactcataac gcccatgcac ctgtgccatg 720
 catccataga aattgcgcca aacgatatga cagaagacct ccgttgaaac cttgaaacca 780
 gcaggaatgt gacatggaaa gtgaatcagg acttcacgat atcttgcagg atgtggctat 840
 aatggccagg cactctatct cgacatctat cgcagtcggc acgataaccc attgaaaata 900
 ccagcttttt ggccggcttg attgatctga ctgaacttgg cgtttctgtc gagacagacg 960
 ttccatgatt tggcgcttc gatcttagac aatgaatcgt gtcgataact tcagctgggtg 1020
 gttctggagt cggtccttc gatgtcggga tgcttgaatc aatagtgaac ggtgtttctg 1080
 tatttgggtt tggctcctct ggtgataagc tgctgggcac atccacatcc attaatgcat 1140
 cagggccgta tgcacgcaga cagtgcaga ctcgttgggt cgctgtagtc ggattatcaa 1200
 acagctcaat gtcgtcgggt tcgccttcaa gccagcagg ctccaaggat gggatatgcat 1260
 atcccttcac ggccgtatgc gggtccttgt cgctgttgg ccagtccttg cctgcttgc 1320
 gggggcttcg tacgggaagt ggccggtgtt tctagggtagc tggttagctt aggagttgag 1380
 ataagaaaaa tctttagtaa tatgaacctt gttgtctctg gcgctatcac ctttatgaac 1440
 ggacagatcc tctgctccc gctgccgctt ggccgaggag caggccataa ttaggctaac 1500
 cgatgactgc aaatataatg agtgatttca cgtgagttta cgaacacgat attacgactc 1560
 aactgagtca aagcatacaa aaatgcaaat gactgtgctt gtgtagtaag tactggatgg 1620
 tctggggctg aaagccacat ctgaagctgg tccaaataat taaaaatacg ggccgtatag 1680
 caaaaacag gcaaccatgg ctggggccgg gacacgggtc cggggacctg ccatgtgagc 1740
 catgtaaaga gg 1752

<210> 2386
 <211> 1768
 <212> DNA
 <213> Aspergillus nidulans

<400> 2386

```

cccgactgtg tgtttcttat tacgtagaag gcttgtatag acagggtcct gttctcgacc 60
ggtcaccacc aaggtgacca ggccccgatg ctgttccatc acatgaccta gtacctgaac 120
caagttgaag acttccaagg ttctttcccc tactcctcaa ccatcaacca gcatccatga 180
gtccagtcct actaggacca ccaatgagaa ggccagtttt tccagcttta atttcgatct 240
gttctgacaa cgccctctcg catgtcgagc tcgacctccg cattaatgtc cttctcctcg 300
gcttattgag gcgtcttgtg agtccccaga ctggggagtt ccaccgcaac ccacacctcc 360
gcatggcctc caaatcttgg catatatcat ctgaagaaa atgctggcat aggctcgttc 420
atcctcgga gttttggcct tagtactaat tatttctatg tcaaggactc taggttttga 480
ttgattgaat cageccaagga gagactattg gcaaaatcgg ctggctatga gatcataatg 540
ctaagcaatt gcttaaacca tgctatgttc gacgttatta gtctcatttc cccgcttcct 600
ccccttattg gtgctccctc aaatctcagg ttataggctt gcaaggatgc tgcgcaactg 660
ttggcgtcg gtgaacctcg gtgaaatgtc caagcaatgt ggtggcgcc tcccggctta 720
tgcacagaca agatatctag gaacctctgc gtaaccttc cctttggcat agaggattgt 780
ctgctgcggg tgaggcccta aataatgatg atattaatgt gtgtcaagtt tgccaacccg 840
agactgcttg ggggtgatgg aggaattctc catgttcccc caagtttgcg gccttttcg 900
ctcgttgtct tcgagatttg ctctctgggg tgttgggggc gggtcacgtt tttagcgagg 960
gagaagatca cctcgcatth cggcacgta cccaatcgc cgacttcttc ggcttctcca 1020
atggggcaaa aacaagagtt tttgtggggc gcttgccaag atctaacca taccgaatat 1080
cacaattgcc gatcgcaaac tagtgtgagt acgaccagca attgccagt gttgacgggc 1140
aatgcgcgac gcgttggcat ttgccagaa gcaacacaaa agcttccggc gaagaggaaa 1200
gtttcgatga acgtttgcta cttacatggg ggataccctt gtttactttc acatgcagcc 1260
gaaaagcgtg ccttcgggtg ttcgagctcg acagctgaag ttgcttaaca ttgtggagca 1320
actaaaaact aatttgtgag acacctggtg gtcccaccga ggcttcaagc cttcacaacc 1380

```

tacgattgtt gaccccatc tattgttcga tacaacgcga gatatacaca gctcaagaat 1440
gctacctgtg cagtcaacgc acaaatttgt ggccagagac aagcttecta ttacctcacc 1500
gtgtgtctcc gatatgttgc cgactccgaa gaacgtagcc gaagccatag agccaacaac 1560
agtcacgctg aaagcaaaaa ttccagagta ggggtaatgc ttccactgcc aatgatcaca 1620
gtacttttac gcattgataa actaagcgta tagtgggttc catagctgga acatcaagct 1680
gtgaagtgtt gggctcgggtg gctcagggct cgggcgagga gctgccaatc cttccctttt 1740
gttggtagcg tcaaactaga gcacaggg 1768

<210> 2387
<211> 1929
<212> DNA
<213> Aspergillus nidulans

<400> 2387

tctaaaaggg ctttctgtag gactgagcgg agggcgctg catggagggtg gtgcggtggt 60
gtatctgcgc tcaagccgcc cataccgctt catcacaggc ttctcctcac tacaggaaat 120
aaattctgtc ccagactaat aagcaaccct cctgtcctcc cgtttggtatg ctgcacggca 180
tgtgctctt tgtccctaaa gatccccctt ggtcgtatat ccttcggcgc cccaggaca 240
tcaagcatgc gccacgtgtt gagttgagt ctgaggtctg tgccaatttc ctgcaggacg 300
gatattttt cgtatattgt cacggaagcg gatgacaggg tttgttgag ggatattgcg 360
gtgttgaggc ctgtaggacc ggcgctttat tgcgatgccg aggettgtc tgtcttcagg 420
tattgctttt cctgggtgtg acttgcttgg acgtattatg aaagggtgaa gcagatggaa 480
aggaagtgtg agtattcatg gagtagatcg atgggttagag gtgaaagtga gggttgttgt 540
cgcgcaatgg ggttattgat cttcgtacaa ctattgcgag cattttatac tgatacgtgt 600
acaggacatt caccataaag aagtagcgtg agaaaagccc tagaaatatt cttgttaaag 660
acggcactgc tcctggacag acccagtctc gtagtcgaga ccattgggtc agtcaaactt 720
tggcacgcgc tcgaagaagc aatgttecta ttaggaatc ggtgaagaaa cgttaaata 780
ggaagaagga tagacatata tgtaagtctt gtccgaccag agtattgcaa ggtgacaaag 840
cgctgtagag caactgataa tactcattca tccgctagga gacaatattc gtactattat 900
ttgatataca taatcgtggc acctccatcc tcaacattac ttgcggcacg ctttactcct 960

tgtgggtagt agtcacctcc tgcttttcag acccaatgag ctcttcacca cgggtgacgt 1020
 ggttggctcc accaaacaga gcatcaatct cttccagagg cacctgcttg gtctcgggta 1080
 taaaaaagaa gacgaacacc gcaagcagga agttgatgcc cgcaaactg taaaatgcgt 1140
 agaatccgca gttgtccagg aagataggga agaactgctg gaagatggcg tttgcgacat 1200
 tctgggtttg agaggccata ccgacagcct gggctcggac gttcatggag aagatctcgg 1260
 atgtccagat ccatactgtt gcacccaag agggtttgct tagacggatg ttattagttg 1320
 gtgggtgacg ggaagagctt agcgtactta cagaagaata tgaacaagaa gagtagaaac 1380
 acgatcgata tgccaacggg cgtgctcttt gtatcgttgg gcgatgggtg ctcggtttcg 1440
 acggcagaca cgatgatcat gcaaagccc ataccgatgc ctccgacaat cagcaagaat 1500
 ttgcgtccaa accggtcgat aatccacaca gcattgaggg taaagaggat tccgaaagtc 1560
 gcgttgaggg cgttgatgag agcaatctgg cttgagctag ggaagacctt ctggtagatc 1620
 ttggctgagt aagagttcag acttccctgg ccggtgacct gctggccagc attgataatc 1680
 aaggctagta ccatacgctt gcgcagagac ttatccttcc agagagcaga gtagttgcta 1740
 gagatggctt cttcttcata ctcaagagct tcacggattc gcaaaagttc atcctccacc 1800
 tcttggtcgg tttctcgaac ccttgcaagc gctgcacgag cttctcgat attgttgcca 1860
 cgctgaatgt acctgtttca tgctcagtga gaactatata ccggcgctaa gaacottacc 1920
 attgtcggc 1929

<210> 2388
 <211> 1550
 <212> DNA
 <213> Aspergillus nidulans

<400> 2388

cgtcgcacgg tatcgtctga gggacactag acagtcccat aaggcgcttg aacacgacat 60
 cctacagctt caaagcgaga ttgcgggctc aaaggccaga gttcaggcta acttcattcg 120
 aactcaattg cgaagacaag aacttggaat caaacgaatc caagctgcca tcagggggcg 180
 gctccagcgt aatgtcgtgt acgaccttca cgataatgtc aaggatgcag aaggtggagt 240
 acagctgctg caggctgcca tccgggggtgc cttacagcgc tcgaagcttt cggaacaatt 300
 tgaagagact cattctgagg aggacaaggt tcaaagattg caagcattga ttgcgggcgc 360

attgcttcgt caacgcatag gcgctcagtc gaaagaaata tcacaagctg aagaaagcat 420
 agatattatt caggcggcca ttcgaggaat gcttgtacgt caaggtgtcg ccaaaacact 480
 tgcttatctc agcgacgaga cggagtctgt tgtactcatt caagcacatg cccgtgcctt 540
 ggctgtcaga aagtctcggg caacgttgag ggagtctctt gtcaaggagc aacataagct 600
 tgttgatctc cagtccatgg tccgtggcgg tgctcttcgg aaggctctta atctcatccg 660
 agaggcattg ggggagtata caccttcttt tattgacctt cagagcgcag cagcagctaa 720
 agctacgcga tccttcttgg tgtctcagcg aaaagctcta ttaaaagaga gcgagtctgt 780
 gctcgagctt caatcaattg ctctgtggtgc cattctgagg aaaagactag aagaagatgc 840
 cgcgttggtg caacaagaga aagctgctat catcgatcta cagtcgctcg cccgggcagc 900
 tgtgctacgt attcaggttg gtgatgtcct ggagcagctg gatgattgtg acgacgagat 960
 cagcgaatta caagcgcata tcagagccat gattgtgcga gtcgatgtcg gtcagacatt 1020
 ggctgatcta ggggtgaag aagacatcat tgcggaattc cagtcctata tcagaggcca 1080
 cctagtacgg acaaggttcg aggaaaaacg tcgctactac caggagaaca tggagaaagt 1140
 ggttaaggcg caaagtttca tacggggtag aatccaaggc caagcgtaca agagtcttac 1200
 aagcgggaag aaccctcctg tgggaaccgt gaaaggcttt gtacaccttc tcaatgacag 1260
 cgaattcgat tttgatgaag aaatcgagtc cgagcgcg cgaaagttag tgggtgcagca 1320
 ggttcggcag aacgagctcg ctgagcagta cattagtcaa ctggatatca agattgtctt 1380
 tctggtgaag aacaagatca cattagatga ggttggttaa caccagaggc actttggtgg 1440
 ccatgtaggg aatctccttt ctaacacgga gatttcctcc aaggaccgtt ttgacctgaa 1500
 agctctgaac aaaacttcga ggagaaagtt agagcactat caagttttct 1550

<210> 2389
 <211> 1490
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2389

accttttcag tgggggatag cagagcatac atggggacgc agctcattct tattgtccat 60
 ccagaccttc ccatcggtg ccagggggtg aacgaacgac gttagcagcc gataacacgg 120
 ggatcgagct cgcaagagag gcgtactgcc aaataccgag tctccaaaca cgctggcaaa 180

```

aacctcgtgt gtaaatttcc cctttccaag tctgagaact aggggactta ggggtcaaccc 240
tctttgcata gagttgagcc gtacggcaac ctggctgaac attattgcct tgacattctc 300
gcagtcgtcc gtcagcacca atctagcacc agccagggtgc aattcgacgg ttcgtccatt 360
ctcttcgagc acatttttgcg tccattcaac aaagttatag ttcaagagct ggtagacggc 420
acggacggcg cagtcaatcc cttttgcaact tagagcgtca atttgtcaat ctggggggtt 480
ggcaaatgca cgtaccgaat ggcagcctat atgacacaag agcggcggtt gtgctgagtc 540
gggtttgctt aatccttttc gaagagaaga gccaaactgc gaggacgac gcaacgggtc 600
gggacaaata gcttgggtgca ggtgaatgag ccatcttcag tgctacggac aagcccatac 660
ccgtcactac ccagggtcaa gcataagagt acgataaatt ctagctgcgt cagaaactac 720
cacaggagaa aaaggaaggc aggatagggtg tttgagtga gaatgtggta ttccccggac 780
ctgactatgt acttattgca ctctcagtcg ggtcccggtc taatccataa aaagatgcat 840
tgagttggcc aaacatgctt cccatggcat gatacttact gatttctaata tactaaaagt 900
aaaagaatgt gcttgttctg gtgataggag gatttgcaaa taactcttta ttttaccctc 960
taatctgtct ctctcttttt tttttaacct ttctaataga tagttctatc cctctcccta 1020
ccctagtata ttgtcactga acgcactaat aagaacaaat ttatcagcag gcgaacagat 1080
tatatcaaac caaagagggc agattttacca acaatagtca gtaatagagg ctgctagcaa 1140
ggctggcaag ttaattaggc taaatcctag cagtggtttg cctcttgata acttcctta 1200
tcgttgccctt gggcatgata actaagggtg ttattctact agaaagatgg cgctactctt 1260
aacagacctg aaaagtaata gccctttgtc aagactcttg ctactaaact tggttgggtta 1320
atagttgaaa acttcaggct gggacttaat cctgcttact tgtatatctt tagccttatc 1380
aggatgctgt cagactcctt ttgctggccc agttcatgat ggaagcccggt ggcattgtctc 1440
gccagtggat cgtaagttct gacggacacc tgtgaaggaa taggtctggg 1490

```

```

<210>      2390
<211>      2086
<212>      DNA
<213>      Aspergillus nidulans

```

```

<223>      unsure at all n locations
<400>      2390

```

```

ttgcaaagcc tcggcattga tggacatgta ggggacgcag cattaaaaga ataaatgggt 60

```

aaccctgggg gaggtagttg aatgatccga cccattctct cgagcgggtg gtgtacggcc 120
agaagaccag aagtgatagt aacagaggaa aggtcagaag gccggcgagt cggttaagcaa 180
aaacgtgagg gggtcgctgg ttaacagatt gacgagtatg ataccggatc aaagcgagaa 240
tgtcctgtga agagttagtg gttgcttccc tgaacctctt gttgacaagt ataaggcacg 300
aggagccaac gcacaatatt gttctgttgg agatactgaa gattggcacc ccaaccccag 360
aagcctcgaa agcgttaatc gaatgagtcc tcatggccta gaggaagtac tcacctgcta 420
ataataagac ggccacacga gaggggaagg gaagaaagag actgaagcca tccaattgag 480
catgctgatac aggaccatt ttccattgaa aggagcggcg ccaggctcct agcacttcca 540
caggagggga actaatacga gattaagaag ccaaggtata ataagagAAC cgctccgcag 600
aaagggaaga aataaagaga agagaaacgg tgagggcact caacacgcaa atgagcgact 660
aggggtgagt ctgacctgtg ggataattga atcttcagaa ggtctgggct gcacacagac 720
tctaaaggct aagaagctca gggatgctgt cgcaagcggc cagcgaggct tccggggggg 780
gtgaagcgct tgcccgcatc cggattagct gcggtctagg ccttgtgttc cgcaattaga 840
tgcgcatatc atcacgtggc tttccacgtg attacagccg aggcataaggc ccggcgctctt 900
atctacatat ccgggggaaac atcccaggct tcttcccacc catgatctgt ctgcggatgt 960
gactgtggag tatctcctgc cggaataact aactgtcttc tccattgctg tcgaatatta 1020
ttctggctctg gaataccttt agctttcgac aatggcggac caggatcttt ccctctcaac 1080
cacagcacct ccggcaagac cttcggccaa attctatccc ttcgcgacct caccggacat 1140
tatccgttca catgagaaaag atgcgttcct cacggccaat ttggccaacg aagcccagtc 1200
tatcatccgg acacttcgag gcgcccggta cgcgcatacc tattcagaag cgatcaagca 1260
tctgacggag ctctataact tttcgtcac gacactcact ggaaaccgaa cgctaggaga 1320
agagtattgt gacctcgttc agttagaaga tgacacacta cgactaccat caattggaag 1380
acgtgtcgga tatatcctca gcagcataat ggtaccatgg acacttcagc gaatccttcc 1440
tggtttccgg caacgtctcc gcgcaaact ggagcgcagc attgccaggc aacaattgaa 1500
ggcacagcag gcgaaggatt cgacaaaact ccgttaagaa caagtcgaac agcccccttt 1560
cttacgaact acgaattcag aatacattct agagcatcta gattcgatca cttctctgtc 1620
gccaatatat gccctaagca tagcgacctt ctacttcacc ggctcatatt accatctgtc 1680

aaaacgtttc tggggactcc gctatgtttt cacgaaaaaa ttagaagaga acgaacagcg 1740
 cgtgggggtat gaagtgttgg gagtcttact cgtcctacaa atagcagttc agagtattct 1800
 tcacgtcaag aaggtcagcc acagcctgca gtcggaggac caagacgtac actccgaaac 1860
 ctctggatcc agcagtaaag aagatacttt gacccgctcg atcgaacatc cagccttcct 1920
 tcctgtcctc cccgtgtcta ccgcgagata tgacctctcg gaagatccga acgcaatccc 1980
 ttggatttca gatggacagc aggcaagtgt acactctggc ttgagtcatt caggacccga 2040
 gtgtactact tgtgncacgt gttttgctgg catgcttgtg tgactg 2086

<210> 2391
 <211> 1311
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2391

accgctccgt caggagtgc cggataagaa cattctcata gtccaacaga agcattgtta 60
 cagtcacagc aaagagttgt gaattaagtc tgagttcctt ctctctctc ctgcctaata 120
 gacagagtga cgtttcttgg tggttggtcc gccagctcgg gggcacaacg aggcgggtggg 180
 gagtggcagg tctggctcgt gttgcgcgcc gtaatatctt atggccgctt ttccgcacct 240
 atcgatagca gtgcaccaga tttttctca aagcaccggc gattcaccat ggtgaaatca 300
 tatctgtgag ttctggagtt ggttatctt tatatgcaag gtatattagc tgacattaag 360
 gccttcagaa aattcgagca ctgaaaact ttcgggggta tcacctccgc atcgtcgaat 420
 gcgatctggg tgccgggacga tgcaatcgcc gggatttcac gtcaaacagg cgctggacgt 480
 agtgtggttg gcgcaggaga ggaggttttg tgctgggata taaagaaggg cgaattgctg 540
 gggagatgga aagattctgc gtgcagggcg caagtcactg tcattacca gagcaagacg 600
 gatgaggata ttttcgccgt tgggtaaggg ctaccaagt gcatctggat cgggagcaat 660
 actgacatca cttttctctc tgatttagct acgaagatgg cagtattcga ttatgggatt 720
 caaggaccga gacggtgatg atctctttca atggccacaa atccgctatt acccaactag 780
 cgttcgacaa tgccggagtt cgccttgcaa gtggctcgcg ggataccaat atcattcttt 840
 gggatctaata ttcagaagtt ggattgttta aactgcgcgg gcacacagac caaatcacct 900
 ctcttcattt cctcgtccca acactcgagc tgttgaatga agctggattg agcgaacatg 960

ccggttttctt aatcacgacc ggaaaggacg cattgatcaa ggtttgggat ttggcatcac 1020
aacattgcat tgaaacccat attgcacagt caaacgggga atgctggagc ctgggtcttg 1080
ccccagatca gagcggctgt ataacgggcg gaaatgatgg cgagctgaag gcctgggtcca 1140
tcgacgaggg tgcatgatt gaaatctcca aagagaaaac cggttcggag aatcgcagga 1200
tcttgctga taggggatca ttctaccgca acggaaagga tcgaacgact ggaatcagct 1260
ttcacccccg agcagactat gtggctttcc atggcatcag aaaaggccgt a 1311

<210> 2392
<211> 1157
<212> DNA
<213> Aspergillus nidulans

<400> 2392

gtgtctagta gcagagggct cctctacgca tcaatgcatt ctgcacgaa agaaggctta 60
tctagccgag atcaacgaaa gttgcaatat cacaggtagc acacccccca tatgttccac 120
cgcttggtac gggcctcaaa ctccgccctt tgccttggg atcgacgggt cagaccagct 180
agtcgatgga cgaaactct tgcctgcct gtagagtggg cgtgagccgc atgtccacgt 240
ggttcattca aagggtatca aggagtacga gcatcttgat gtcctctggg cgatggatat 300
gattgagcag gtcgcacggg aggtccggca gatcctttgg gagactatgc ctgcggatga 360
gaggggtgttg agtgtgacac cgaggggggt ggaatgaatc acacaaggac aaattgtata 420
tgctcatttc tcttcatgta tttagctttg tacatatata cttatagata gatagaacat 480
gacaacgata gggatatgag tgcaagacag agaattcagt gacggattca catggaaggc 540
agttaattaa tcttaagtaa taggaaagat gtcttaatta aagattaatc tagttataaa 600
acatgcgttg agctgacct tccctttctt accaagtttg ctattgagat atgcagtcag 660
cacccatcaa tcgttccacc agggccgtat ttgtcttcta gttgatcact attatttata 720
tggataggca tgcacgaat ctacgggca ctctgtggc tcccataagc cacatattcc 780
aagggttac caaacgggtt taatataact agcacaaatc cagctgccta gtctctcatc 840
caataggagt cttcttcttg tctcaaacc ctcaaactc cccacctcag taacattaag 900
cccgacaagg atatacgaat ctttggagca aacattttca attacctcac ctaccaggct 960
cactcactaa atcacaaggc cacgggggta taaactgaaa ggtgcaacaa caggtacatc 1020

agtcagcaac cctaaccaca tttcaagtgg ccaagcatca agccgtcagg atcttctctac 1080
 accagcaggc caaggctgtc atcgcatatg caaaagcaac cccaccgtaa gcctcaagga 1140
 cagaagtagg atttacc 1157

<210> 2393
 <211> 1461
 <212> DNA
 <213> Aspergillus nidulans

<400> 2393

gctgtatttt caggggaactg gcgaagcaaa ctttcgacaa cggaatgcgt ctgggagggg 60
 ttagaagcta cctctagaac catggagaac atgaaagaag ttatcaattt tatcagaaag 120
 ttctgaatct attgatcttg agattgacct caaggtgtcg tttcagccat acagacgcaa 180
 acaatagagc agactacagg aaggtctctc cgagccgaag atcaaaataa agcttacggg 240
 gctgaagcct cttccggtaa aggttgcatc cggcctaaac gatataataa tcgatgtcga 300
 agaagcacc cagctgttttg tgcacggggg cttgttaagg gtaaagcaag aaaggtgcct 360
 cgaaaatctc aggagtcgct ggatacaact ctgaatgaga caggctctct taggggctcg 420
 agagccgtaa tcaaccgtgc tgagctcgaa gctgtcttac tctgtccgtg caccggtag 480
 atggtttatt tgccctcaggc tcttccggcg ttacgtatgc gtaagtctaa agcggcggct 540
 ggaggaccgt ggggaatcat cacgatttcg ataatctaata agctcacgga agacatgtcc 600
 aggtgcaaga acaggagcaa gtccaagcgt ttaaggccaa aatcctagag atcagcctaa 660
 cagccgacc gttccagacc gttacgcac tcactctcat tagcccggtc caagtgtaat 720
 aaacgttctc tgtccccgc ttagcgtttc tcatactgct gatataccat acgtccaaag 780
 gtctctttcg ttccctggcc cagggtacaa ctctgaggta tcacttgcca aagatgtcga 840
 tcaagtatgt ggatgagccc cacttcatta ctgataacc tccagactgt tcgtcctttg 900
 aacgcattcg ggcacgcat aactctggct tgcttcttat cactatcatg ctgctgatgc 960
 gatcacctac ttgccatttt atactactcg acttggttag caccattcta acggatgatc 1020
 tagttgggta atgctcaatg agcgcagagg cttgtttcac ctgocgaacg aacgattgct 1080
 atacaccagt cccctcgaag caggcttcgc cttacaacca ccccttcat aactggcaa 1140
 cgacaagcta tcaactacga gcagttccg tcaaatcttt ctcaaaaacc agcgggtaat 1200

tctcctttca ttccgttcaa aaaatTTTTT tttctTTTT cttttttggc tagaatgtgc 1260
 cttttgacaa tctctaggt aatctatatt ccagcccaac gggtagatga actagaatca 1320
 ttttcagccc ctctgctcaa tctgcatgat tctcacgttt cttcaccctt tttcggaccc 1380
 aatgaatgga acgccgttgt tcaaccggta cctggaaacg gaaatcccc gtcgcaggtt 1440
 caggtacatt taaagtactt c 1461

<210> 2394
 <211> 1585
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2394

cgtgcgacca cggcgaccgg ttgtcttcgt gtgctgacca cggacacgga gaccccagta 60
 gtgacggaga ccacggtgag agcggttctt cttgaggcgc tcgagatcct cacggtactt 120
 gctgtcgaga ccgttgga aa ggacctggtg gtccttgccg tcaacgatat cgcgctgtct 180
 gttcaggaac caggtgggga tcttgtactg ggtgggggttc tggaggatgg tgacaatgcg 240
 ctcgagttct tcggtggtaa gttcacccggc actatgagag aagttcgtta gatggatatt 300
 tcaaaaattg aatgcgtttg cggctgtcat ggggtagaag cgctgtgtgc gtttcttcca 360
 agggagctgc agga aaattg ccacatacc gcttggtgag gtcaacatcg gccttcttgc 420
 agaccaagtt ggagtaacgg cgaccgacac ccttgacctg ggtcaaggcg tacatgatct 480
 tctccttgcc gtcaacattg gtgttgagca gacgaaggat gtactggaag ttcgtcttct 540
 cgccggacac gagcgctgtg aaagaaaccc agtcagccta atttccttgc catctagtgg 600
 tgttcgatga acagatgggt gaaatccaaa tcattctcgt gtctgttctg ttctgttccc 660
 gctgctattc gtgaaaaccg tcctccgaag tcaccaaatt ctatcctcag agaacaatcg 720
 agcagagcga gcaaagcagt cgagtgggca aatagagcag gaaagggatt ccagatgtag 780
 cacgtacaca tgatgggcga tgggcgcgaa cgggatcgcg agttgattgt cgacagcgag 840
 aggtgtgaaa gaagagggtta aatcgagggc tctggcggct tcaactttgc tcaccggttg 900
 tgggatcgga ttaaccgagt cgggaatggt cgcttgagg gctcgcttga cgaggtgcta 960
 gagcagatcg ggtagccta tcacgtgtat ccgacagtca aagtcagatt cattaatgac 1020
 taaccttttt tatgtccgac ataaagtgga actgacaaca cctccggcac acgatctgac 1080

tacttccata tgaactacca atgcgcttga atgtcttgca tatttcgctg tcattcaatc 1140
tccatcttta agcattgact cactacgcat ttgcttctaa gaattcgccg agattgattt 1200
tgactgattg gaatgatact acaaacggaa tgcttaaaat agtaccocgg agtctcttac 1260
ctgcttgccc ggagacttgt gtactggttt cccagaaagt gtcctgcctt ttataggtgt 1320
ctttgccagg gcccaatatc gcggtcgatg cagtattgat acagtaatga ccaagaagcc 1380
ggccctggac aaagcatgcc acaacctctc accatgcggt gtatacctgg gacttgccat 1440
tgtccagtca tgccacagtc tctgcctaag ttgtgggaag agaactatca ggaatcgcac 1500
ttgcaacctt tctttcagtt caacaagcga ggtgcgacta caggtagaca aatgctggtt 1560
cttcggcggt ggacattctt tgtgg 1585

<210> 2395
<211> 832
<212> DNA
<213> *Aspergillus nidulans*
<400> 2395

actggagctg tttaggcgag gcagctaaag aagctgctgc cttggagaaa cataaacatg 60
ttgagaacaa attttttact gctgagagca tttggactga agagaatgag gtgggtggta 120
aatgagctgt taagtgaata acaagtgtga cacttagata ccaaagcacg tgcccagcaa 180
ccttagatct ctaataaata atagatgtgt ttatcttacg agatttggtt tttgctcggt 240
ctctgctgta atagtgcatt gtattcctcc caataccttt atatcttgta ccagaaacga 300
ggtgttgaga gtacgtttca taacaccaca tttctacagt agccttcttg acagactaca 360
tagatgtagc taagataaag agcttatatg gctttaaagt aacatttgat tctgcatgaa 420
aagctcttga tcctgcccac aggtgccgaa atctttgaag tttgccttga acatttgaaa 480
atttgcta at agctcgaaaa aatgtcctgg gcaaggaatc ctagcataat aacagatgca 540
gcgtaatgag cacaaacatg tcacaatgtc ctgaggcact ggcagctggt agctactata 600
taacgcgagc catttgactt catagtctac agaaggagtg tgatgcttgg ggcattctaa 660
taagcagtgg cagatgataa acacctttac atggtaagga agatactaca gccagtgcc 720
caatcagaag ctattgatcc tctcttatgt gcatgcgatg atggagtgt aaccctcact 780
ccgaaatcga tgccttgctg ccttgataac ttaccttgcc agcatgcatg ca 832

<210> 2396
 <211> 4153
 <212> DNA
 <213> Aspergillus nidulans

<400> 2396

```

gcatccttgt aatctcgctt tccccgtgg tcttatgac ggtaccgatt ctcacactcc 60
taacgctggg ggttttgcta ttgctgctat tgggtgttgg ggtgccgatg cgcgcgatgt 120
catggctggc cttccttggg aattgaaggc tccaaggctc atcgggtgta ggctcactgg 180
tgagatgtcc ggctggaccg ctccaagggt taagtatcat tatttacatc tgaccaagg 240
cttgagggga attgtgcact aatactctct tagatatcat cctcaaggct gctgggtctcc 300
tgactgtcaa ggggtgtact ggtgccatca ttgaatacca cggtcctggg gtcaactccc 360
tctctgccac tggatatggc accatctgta acatgggtgc tgagattggg gccaccacct 420
ttctcttccc cttcaagcga cggtatgtac gactatctga aggctaccaa gcgctcagcag 480
attggtgact ttgccgctc ctacgccaag gacctacgcg aggatgaggg tgctgagtac 540
gaccagctga tcgagatcaa cctgtccgag ctcgagcccc acatcaacgg tcccttcacc 600
cctgacttgg ctactcccat ctctcagttc aaggaggctg tcaaggccaa cggctggccc 660
gaggagctca aggtcgggtt gattggctct tgcaccaact cttcttacga ggacatgtct 720
cgtgctgctt ccacgcacca ggatgctctc gaccacggct tgaaggccaa gtctatcttc 780
actgttactc ctggttccga gcagattcgc gctaccattg agcgtgacgg tcagctcaag 840
acccttgagg agttcgggtg tgtcatcctg gccaacgcct gcggtccttg cattggacag 900
tgggaccgca aggatgtcaa gaagggtact cccaactcca ttgtctcttc ttacaaccgt 960
aacttcactg gtogtaacga tgccaaccct gctactcacg ctttcgtcac ttccccgac 1020
cttgctgttg ctctgagcat tgctgggtact ctcaacttca accccctcac cgacactctc 1080
aaggacaagg atggcaagga gttcaagctt aaggccccta ctggtgacgg tctccccagc 1140
cgtggctacg accccggccg cgacacctac caggctctc ccaccgaccg cagcagtgtc 1200
gatgttgctg tttccccctc cagtgaccgt cttcagctcc tcgctggatt ccagccttgg 1260
gacggcaagg atgccactgg cattcctatc ctgatcaagt gccagggcaa gactactact 1320
gatcacatct ccattggctg cccatggctc aagtaccgtg gtcaccttga caacatctct 1380

```

aacaacatgc tgatcgggtgc cgtcaacgct gagaacggcg aggccaacaa gatcaagaac 1440
gttttactg gcgagtatgg tgctgtcccc gccacggctc gtgactacaa ggctcgtgggt 1500
gttaagtggg ttgttatcgg tgactggaac tacggtgagg gtagctctcg tgagcacgct 1560
gcccttgagc cccgccacct tggcgggtctc gccatcatca cccgcagctt tgcccgatt 1620
gtaagtctca tgcgtctcat tcagactaag tagtatttgg actaacaaat attctccagc 1680
acgaaaccaa ccttaagaag cagggtatgc ttccctcac cttctccgac cctgccgact 1740
acgaccgcat ccccccgac gccaccgtcg acctcctctg cacggaactc gccgttgaca 1800
agcccatgac cctccgtgtt caccacaagg atgggtgcctc cttcgacgtc aagctcagcc 1860
acaccttcaa cgagtcccag attgagtggg tcaaggacgg ttccgccctc aacaccatgg 1920
cccgcaagtc tggcaactaa acgacatcct gtaaattatg tcttggtgctt tgatcagtta 1980
gcagcgagca agaaaaggca gtactagagc tgctaattgg tttctatga ttgatattcac 2040
ggagtgaggt ttcgaaaaat tttatgaatc gctttctgct caggggatgt atcggaacc 2100
tttgggcgga ctacatggat atatcacctg tttttgttac atcgctccatt gtatgttagg 2160
gattggatgc ataccatata ctatttcgta ttaactgctt ctttcgtgac tacttcctta 2220
tactgtaaac tcttatcaat taggaagctc tcagtgggcg atgacataag atcgcggtgct 2280
ctgcggtgcc gactggccga ggccaaccct ttccgcgctt gcccgcctc ggccgttttag 2340
caatgagcat gtcagcgtaa ccgggcgtat atgatgggc ttctctcaa cataatggca 2400
tctcccttaa actagatctg taatttaaact cggctcatac ttccggttcg acctgctcg 2460
gtgaggagaa atatagaatc ccgctccggg aacagtgtg accacgtatc atagctcaaa 2520
tcaaactgaa gggcattaag ctatcacgat aaatggctca tctagtcca ttacctgagg 2580
tcgaaaggct cagtgcgtcg gtggtgcggg ttctgggagg gaatcccggg aaggtgtgtt 2640
catctagcca atttttcccc tttctcttac tatggggctt tggcgtgttc ttgatattcg 2700
agttcgaagc attactatct tgattactga cagagcgaca cttgaggata gtttactcta 2760
caaggtttgt ttcaattatg tcatagcagg gagaaacat agcaaacta acacctgcag 2820
gaacaaacac ttatctgatc ggacaaggcg ctgctcgat ccttattgac accggcgaag 2880
gcaagcaatc ctgggccgcg catctaaaaa aagtgtgtc ggatgaaaat gcgacagtcc 2940
accaggctct tataacgcac tggcaccacg acctgttgg tggattcca gacttactca 3000

gactgtgccc tgaagtaaca atctacaagc atcagcccg agagggcag gtagatattc 3060
aggatgggca agtctttcag gttgaaggag caacgctaag agccgcccac acgccaggcc 3120
atacagttga tcatatggtg tttgtatttg aggaagagaa tgccattttc acgggtgata 3180
gtgagtggtc atactccttg gtgatgattc ttacatccaa ggcgctgatt cggtaatata 3240
tagatgttct aggccatgga acagcagtgt ttgaggacct aaagacctac ctcgatagcc 3300
tgaagcgaat gcaaaatcgg gtctcaggtc gaggataccc cggtcatgga gcagttgtcg 3360
agaatgctac agcaaagatc gcagagtata tacggcaccg acagcagcgg gaggacgagg 3420
tgatccgctg gctgcggtac ggaaaactag acgtcggcga tcacgagcgc tctccggagc 3480
ggaagtcgtg gtggactcct ctcgagatag tgaagatcat ctacacagat gttcctgaaa 3540
acctccatct ccccgctgca aatggggtcg tacagggtgt aagcaagttg gaagccgaag 3600
ggaaggtcat tcacgatacg gactccgacc gctggaccct taacacgggc aaatcagctt 3660
tgtgatttaa catgcggatg tccgtacagt ctctgcttat cgctgggata tagtcaggca 3720
gattggatag gtgcccaggt ggtaaccttg gcataatcat gcaaatccca cctagaagcc 3780
aagcgcttgg actagaaaga cagaagtttt ctgggcactg ggcgcccttt tttctttttg 3840
gacaaggggt ggaaatcctg gcaaaaaggt tagggaatat ttccatgaac aaccccgggc 3900
cggggggttt gcgcccacac ttaatggttg gtcaaggccc cagcactttt tttgatttaa 3960
tggtaccgga ccaatttggt cctccccggt tggggattcg aataactaaa aattctggag 4020
gcctgggtgc cacaaaaaaa ggtgggctaa caccctttct tattttgttt aaaggcttta 4080
gaaagctgga attatttttt cgtcaaacaa gaaaagaatt tgcccttggg cctccccccc 4140
cccaaaaata aaa 4153

<210> 2397
<211> 706
<212> DNA
<213> *Aspergillus nidulans*

<400> 2397

ctttggacta attgtccgac ttgcggccag gcgcccgggt cgcagtctca ccccgagaa 60
cccacgcggc gccgggtgaa ggagttggaa ggccaggtag agtttctgaa tgagcaggct 120
gcgaaaatgt gtaagtttgc ttctatctgg atcaagatta ccgcgggaac ctgctccgct 180

aactcttatg tttacagcag agaaactgct cgaatacgaa gcggaattac gacgactccg 240
 tgcgcaaagc ccaaaccaag gccagaacca gccgtctagc ttcacctcgc gaaacggctt 300
 ctcgatatcg tctacctcaa cctcctcgca ctcgccgtcg aactcgcagt ctcaatcacc 360
 cctgcaagtc cagcagaccc agagccggct ctcatccctt gcctcgctcc tcccctaccg 420
 ccgtcccagc acagcgctct cccagccgca gtcgcagtca caaccaccgg catcgccggg 480
 agcgcaacaa tgccagctgg ctccgttcac tcaatccccg cctccgctct cacaaccgcg 540
 caccgacact ccaacaccac gcccctcctt tgaagaaacc ctcgagcttc agaacgcgct 600
 gaaccgcgag cagagcctcc gcaaggcagc agagaccaac ttacgcaggc aagcaccgag 660
 ctggaagaat tgacggcgca cgtgttttagc caggcgaatg aaatgg 706

<210> 2398
 <211> 2001
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2398

gctattgcgc tgctggagta gcaaactctc cgggccatat cgcttcgtcag tgctgtttgg 60
 ctcataaaag tctccatttg ttgctggtaa tgttgaggat ggggtgcgagt tatcaagggg 120
 cccagcggct ggtccgggtga gacgttgctc aactgacctg tgattattag acgatgcttg 180
 ttagaatctg aattccctct tacattctga aagtagctag aaccgttgaa taacagcact 240
 gcagtatcag atacgaacga gtctaagat acggtaggta gtctgatcga ctgagcagca 300
 gcagcataaa aactagcaca tggcttcatg acgctgccat cggcaagtca accccaaaaa 360
 tgccctcaca gagatggaca gacaaagatg agtgatgagg tggttcatat ttctgaattc 420
 tctttctttc aatggcgggtc attccccgca ccaaagcgcg cggctgatcg tgactaggat 480
 cagaccgctg cccaccttga gtatggggtc aggccttaga atagtcagtt tctttggtgt 540
 cttgagccta cgcataaacg caacgtagtt tgtgacggtt aatggatcga tttcttgagg 600
 tttgaactta gaagatagca gcagtcttgc ggcgctgcaa gcgcaagctg tgccctccctg 660
 tcgccgtgcc ctctgtggca tatgctgtcc agttctgacc ctgtcagact ggattaactg 720
 gatataatth ttgtatgaac aagtgtctac tcattcaggc cagaggggtgt acatcgcgaa 780
 ataccactct accttcatgt catcacatat atctagctga tatactctga ttgtgttcta 840

tacagacaga gctttaacga ggtcacaaaa gacgacgcgt gaaggaggta gaacaaaagg 900
 aggtgtatcg ccaaaaacac ttgccagccc aatgcttcct gaatttggcg cattaacctc 960
 cgaatgctgt ggtttcccag ataattggcg cccaaacaaa ccctcccatc caaagtcggc 1020
 gatctcaatc aagctgtcca tgcgattgac ctccaaggcc ttgcttgtag aaccaatttg 1080
 ttgtacatgg gccccagcat ccacaataat ataattggct gaatgcgagt ttgaaagcaa 1140
 ggccacgggc tctttggcga gtttttggcg ggaaagcagt ctcacagtgt ctatgtcaaa 1200
 tatctgtacc ataaaccag acttgcgaga ctttcttgaa gtagtcttct tctgcgttcg 1260
 tgaagccgta gcgaacgtcc gcgttctgga attcacagct agcagctggc gactgtgttg 1320
 catgtctgga gactctattg tccttacagc atcattgact gtatcccata tgaacagcga 1380
 acgactagta gcaacaatca gatggcagcc cagaaaagca gccgcgcaaa tgtcgccagt 1440
 ataaagtcca accttgctac atctgacact gcaacttcgt acatcgacaa ggagagtggg 1500
 gctaggattt gtggacgttg gccgcagaga caccgcgagg actgatccat cctcagagaa 1560
 gcagactgag gcagacctca agagacagtc agcaggcaga taacctttca aatcgagcgt 1620
 atttcgacac ttccaggtct ccgcaggctt ttttggaaga ctaacatgac gccaaagacg 1680
 cagcagtcca tctgatccag tagtcgcaaa ctctgactg tctggtcgtg aagcaatatt 1740
 gagaacagtc gcgggttcac ctgtgggttg atgtggactg tcaatgcggg tgactaattg 1800
 ccaaagtaag gatggctcat ccagcgcca gaatttcagg taaacctcat gcatttggtt 1860
 cgttgttatg tcgagagcct caacatcttc gggattagga ctccagctat cgatagtagc 1920
 catccatttc ccattctcaa aaatgctgag atgctttatg tcaggagtga ggatatggga 1980
 cccatcgga cccgatgtca t 2001

<210> 2399
 <211> 3149
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2399

tatctgctgt acaaattccg cttttataac ctgcttcg acatctgtca gctctcatcg 60
 ccggcagagc acgcaaaagt atctgcacta gatacaagaa ttgtcaatga gcagcagtcc 120
 cattttgttc gatttgctgc gcgacctatc acagatttag acccgtagca tcaagcccac 180

tactacatcc tcgcaaacta caccaaccat ctcacgctcc tectecatcg accgtacatt 240

tcaacggcca atttttagtac gcctttttcc caaagccccg agcgatgcga gcacgctgcg 300

acgactatcc tctctaactt cgaaagactc gcctccgacc cctctttcca gagctaccgg 360

tggtatgttg acggtttggg ctcattctac gctttcttct cgatcacgac gctgctaata 420

cttcacggaa acgggcaact ggatatacag tccggctctc taatattgaa cctagttcgc 480

cgttgtgtgg atatccttat gcacagagca ccgagaagct cggtttgctc aaaagctgct 540

gcaattcttg agccgattgc gcagcgtctg gatccgctgg gacttagaac tggccaggct 600

aatgctgagc aaatgagtcg gggtattgag gaagagacga ttctctctgc gtttccagag 660

cttggagggc tgttctttga cgtcccgtgc gagcaatggc tgactccggc ggggttcctt 720

tgggtagcgt cttgagcttt ggcgggcccg accctgtata ctgatcacgc tggactcagc 780

tacaatcggg gctggacggc cgggtactac tgcaacagga cgggtgtctc gcaaaaagca 840

cacggtttca caggcgagct aagaccttgg aggaagctta ccacaaatct tactataact 900

tgatttacga cctttgtcat cacttgttct aacttatccg gtcttcaaat gttcagctcg 960

gcaccgtagt gttctagtaa catcttcaac acagctccca accaccacgg catcagggta 1020

gagtctaaat cacaaatatc cccattatag gagcatgtga ttctccaaat caccaaagag 1080

acacctcaca ctgcgagcga ctccaatgaa aggctatcaa cttatgctct ggtcacttcc 1140

gccacgagcg cccagtacac ggctttcaca acctgacgtg gcgcagctac gcactgtctt 1200

cggctgaacg ctggccgctg acgagaaaacg tcaaagtga tgtttttaag ctggatattc 1260

ttaagaggca ttatttgacg aaatttcctc gaggagtagg agatgccatg atatgttatg 1320

tatgatatag gctaaggcaa ggctgctaag aggggtgatct tgtatacatc gctgttttca 1380

gtaacgagga tactaagcaa tccactcaac gatccccctt caccctttct tcttcccctc 1440

tccgtcgcca aggtcattga ttgtatatgt atccgtaacc agatcgacct cctcagagtt 1500

cacaaacgtc gtcctcttcc agaccttcca aacgataaac atgccagca taatcggcaa 1560

ctcgagataa aagctcacga aactaacacc gtcaaagtgc gggctaaaac agctccacc 1620

ctgtacaagc acgatgacta tattcaggat cacgcagacc cagggaacct cgggtacgt 1680

gaagttgcga aacggcagca ggtgtgtctt gttttgctgt ttcagtgcgg cgcggaacct 1740

gatgctgggt ataccgatag agatccatga gagttgattg gagacgcga cgatgctgag 1800

gcagtgggttt gtcagtatac cttgtgtagc atgaatgcga gggaatggga gcgtacttct 1860
gcaaccaagt ccagagctgc ccagctccga tcttactcga gccaaagcat agcccactca 1920
cgcccccggt agctagaaca gcaatccatg gcacatgggt ccgattcagc ttcccaaaga 1980
agccccggcg gtgcccagca acagagagtg tgtacagaag ccggacgccc gcgaagagcg 2040
cgtggttacc ggcagacaaa acagaagtga ggatcacggc gttcatgacg ctcccggcgg 2100
cctttgtgcc cgtcatttcg aagacgagcg tgaagggaga cgttttaacc gtgccgtcgt 2160
tgagcgaggg atagttgtgg ggaatgttga ggccgatgat caggaggag aggatgctat 2220
tgtccatcag taaagcggca gaagacgatt aaagtgcgtg aaaaagacag actagaatat 2280
gagaatccgc cagaagacat tgagaacgac ttttgaata gtccgcgctg ggtccttgg 2340
ttctcctcgg gtgatggcga tggattctgt gccgccgtct aacaatctcg acttagcagc 2400
gatcctttag aaaaaggaac ggaaactctc acaggcaaac gctgccgtta caaagacaga 2460
agcgaacccc ccgatccctc caacgaacgg cgcactctga atatgccaat tctcgccgcc 2520
gatatagcgg ccagattcgt ttccgccgca gttgaccacg attcctaaga cgatgaagac 2580
ctatttccgc aatcaacact tgccgattct gctagatcag aggacaacgc ccactaacga 2640
tgatagtgat caccttgagc acgctcatcc agtactcaac ctgagggaaa caggattagc 2700
ggaggggaaga tccgtggcgg gtggacaacg catacctcgc cataaacttt tacggcgaac 2760
aagttcagcc caatcagcac agcccagaag atcagactga acgcccagcc ggggaagtgt 2820
tccgattcgg tccagtactg cagcacaatc tgcagcgcaa ccaaactcga cgccgtagat 2880
accgctcgt tgaaccagta gttccacgtt aaggcgaatc caaacgcac atccacaaag 2940
cgactagttg catgttagcc cagtcccaga ttcagattca atgttcagct cgaaacgaag 3000
ttggttagga gccgtaagac atagggctgg ctcacccggc aaaagtacag aaactccag 3060
cgacaggtat aaacgccgcc atttcaccaa gactcagcat cgtcagaaag acgattccgc 3120
cagagatcgc gtatgcgatg agcatcgac 3149

<210> 2400
<211> 2020
<212> DNA
<213> Aspergillus nidulans
<400> 2400

gactggaaac aagaccagca cgatcgatta tcatttgcga tctcagcggg ctggccactc 60
tcttgcgcag gagctatcgg caaccggtt gcacgcctag tcaaagtggc tgagtctgtc 120
aatcgacctc acattgactt ataggcacag ttgcccaatg gcggtgtttt gggccattgg 180
acgtgcctgg gacctggttt gggggccggt cagttctagc agaacctgag gggttcgtca 240
tgaattgtgc acgagtacta gatcagaaga ggcaaggctc aaggcgtccg acgtctgagc 300
acagggctaa gtcgctgcga ggagatagag tccgcccaag attgcttgtt ccgcatttcg 360
gagagtggag ccggtctctg cctaatagacc ataccactat acatcactat gttcacagtg 420
gtctctctct acctctcgtg ttcccaggta cgccaacctg gccgaagcat gaacttcagc 480
gaaacgaaaa aggtcaattt cttgggtcag ccagttgttt atctggagtc aaaatactca 540
gtctcaatct tcaattagct tatcatgaac taaatatggg tgactaggaa ttgagacaaa 600
tcttacgccg aggccacatg tattgcgacc aagaaaggct gatgtcttgg ttcagcccta 660
catgggcgaa ccagtggtcg caaatgctgg tcttgctagt gcatgaataa gaggctttgt 720
tagtgagagc tgacgcaatg tgtctgagct taattcagaa ggtagatgtg ggactatatg 780
gtattcggac aacaacaaac gcaagatcca cagaacgaac gcatctgact cgagcaatca 840
gcatggtata agtaatcaac atagaaagaa gatgtgcaaa tcagaacgca gtatacacia 900
tcatgaacat agcaggaacc atttgccggc ataataatg gaggatatgt ggtatggaca 960
cgcagacaaa cgcaacgctg tttggacttt aaagagagaa acaaacgac aagaataaca 1020
gaacccaagc tagctggctt taccaagcat tgcgggtcca gttcggatct atgccaacgt 1080
cagtcaaact gctcttctac ctgatggccc cggaacggag tgagatgcaa ctaaccttgt 1140
ataaaactag caagcacctt gtcctctgtc tgcagaagcg ggtgtccagc gacaatctgc 1200
agaaaccgct gcagaccttc tcgacggtgc tcaatcacat catcgtgaa ccggtttgtg 1260
aacaccttct ctgggagcgg gggaatcgtg actcttgtgc tctcgcgctc tagtatgtcg 1320
cggaagtatt caaagtccga gtagcggcgg cgcacgaccg agtgtttcag cttgaaggct 1380
gggatgttgg tgcggcagac gatttcatac aagggtgtaca tggtgcgca cgtgccatgg 1440
gtttgggggt tccggacctg tgggtttcca gagcgttagc tgagtctttg tataaatttc 1500
caagaccaat tgcgatatgg cgtcgggaata ggtgtctgtt tgaggagtgt atgagagcat 1560
gaaggagag cactgtgggt agagtatgcc agaataaagt tatacctcta tctcaaggaa 1620

attctcggga ggtccgtaga tctcctcgaa ggtttgctgt cgcgactcag ggacagcctg 1680
cattttgagg aattttcgct tgcgagggtg gtcgttacag agccggggga gcctgggagg 1740
tgggggggta tcgcggggaa gtcgggcttg tctgtgctca ggaatgcagt agcggagttg 1800
atatatgatt gttggagcgc tgaaacgact gtatgtggac taaactcgaa tctccgtaat 1860
atatagtcgg gaagctgaga aagccggttt gctcgtaggg acaaagtagc gggcttacgc 1920
gggtaggagt tgcagtgggc cactctcgac tgctgacaga aagacgcgta ttaagttgcg 1980
atcaatacag aacacccgta gacttcattt atcatgaggt 2020

<210> 2401
<211> 3198
<212> DNA
<213> *Aspergillus nidulans*

<400> 2401
gtcttctggc catcgttgtg attgtgcttg tcatcccaca cttcttccac tgtctcgggtg 60
tctatctcgg gcctctcgca atcagacggg acgggtatcg gactgtggac gagcgccatg 120
gcagcacact agtcgaccat aatctcctat gacctgttcg tcttctcttc cttcgtctca 180
agccgattct taagctgacg cgagatcgcg aacacagcag atgatgcggg tggcacggcg 240
catcataaga gtgcagtcaa agggaggggg acgtagaaaag gagttttccc taggatccgg 300
gggtctgagt agagaaagcc atcaaagggg cactgttggg aagtcaactc ttcacttgac 360
agttgatgca agcaccgaga gggatatcgc ttgtcggaca actcagaaaa gcagtgaatg 420
aggcacaaaa cactggcggt gccagtgct tatcatgtga taggtcacca cgaattgctt 480
tctctttgct ttttactaga ctgttctact agaattttgt cagcctttat ctagattttt 540
tgtagtctat tcagcaaata acacactttt aatcatataa ctattagtga ctgcactgta 600
ggagtaattg tgcccattta gcagccgaat gctcaagttt tccctcagtc cgaacctgag 660
ataagaatcg aattttcagg ccaacagtcc agggccaata tagtgctgt ctattgaatc 720
cccactgta tatccccttg caatgccctt gcgccttgc acaaccaggg tactgtcatt 780
ctcctcgta tcataactcaa cattcgccgc actattgaaa tcgctcccca gcccgtcca 840
cgtccgctga gatcgcaaga attccgcccc tggcgagaaa gtgttgccga ccatagccag 900
gtcgcccttt gcccttcgag caagcgctcg tgctgcagac ggcccatcag ccgcacctgt 960

ctgcgagat attgctgcag tggcgcccttg ggaagcggag acgcggggcg cggaatcgcg 1020
 catcggtcgc gagtaggaga cgtaccgacc ggtgcggagg tcgaactctg gtggtgcaga 1080
 ttcgggttcc gacatagcat cctcgtcctc gtccctggca tgatccccga attcgggtcc 1140
 ctcgtttgcc ttctggctgt ttccagggga attggaactt ggtggtggct ggtcaaggat 1200
 gctctggaag tcgctctgcc agggccctgt ccagaccgc tcctcgtccc ccttgagtgc 1260
 aacttccaac tcaaacgggg tgatgacggg tttccagaaa tccttgctgt cgactagcga 1320
 actttccag caccgatga caaccaacc accaatctcg ctgaagtgg ctacctggc 1380
 tgcgttcaac ttgccacga cgaacatgta acttttcttc cctgcagctg cgatcttgtc 1440
 tctgacatga tccacgatat ggaggtagtt ctttacgctc agtgtgttga ccaaaattcc 1500
 gaaaataggc accgtgctta accgtgtcaa gatagcgtag cgacgacgca ggaccatcgc 1560
 agtcgatgcg ggtagaggct ttacgtctgt gccagccggc ccatcagtag ggtagatgtg 1620
 gattgctgcc acgcgagatg ctacgctcag aagcagcgt gtaggcgggt cgagatgtg 1680
 gaagagctgc caattcccta gcgactctgg agcctctttg accgagtctg gaacggtgcg 1740
 gttaggtatg acagacgacg gatcgtgaac caacgccgtg gcaaacagac tgctgtaccc 1800
 ctctgcacc agccgcgagt atacttccgg gatatggtca gagtaggta catcggcagc 1860
 gaggatcacc tttgtttctg ggtccgggta ggtctctttg aacgccttga gaactgggtc 1920
 gagaggcaac tccttgctgc tgaaaacgta gatgactgga agtctagcag tcggggatag 1980
 gcatgaacgt ccgtagtgca cgacaacgtc cgcgtcgaca tgttctgccg cgacctcgtc 2040
 aacacagcaa gtcccgtaag atgtgtcggc cagaatatag agcttcggtg accactcgtc 2100
 cgcactttta aggtcaaggc gagacgcgaa tccactaagc ggccggtagg ctcagtctcg 2160
 gtgtttgcct tcggaacccc atcccacaat atcccgtgcc tccaggcccc gactcagcag 2220
 ctgaaacacc cttggtgcat ctggaagcat ctcatccgga aactgaagcg caatccgctt 2280
 gtaccgcgcc tggcggatct cttcaacgt gcgttcgatg tcatacgtga tggcgagtgc 2340
 ctcttccgag agaatgcggt tggtttgtgg tacaaccggg tcggtctctt cgaggatgcg 2400
 atcatctggg gttgagagaa cgggcgccgc cgctaattct gtggtcattt tgactgtcaa 2460
 tctagagagg cgttgatcgt gttgtgagaa ggggcagttg tgggatgatt attttttctg 2520
 cgagcaaaact ccgtatcccc acctaccccg cggccaatta ctgagggggc atttaagcaa 2580

gcaacaactc gtgaaatgcg atgaactgct gacctatgta gacttctaaa tttacggggt 2640
tatatcaact tatgtacagg cataaccagc tctacaaatc agctttcgct ggctctccgg 2700
cccacactcg tcgaatcaat tcccgaatgg gctcgcgctc gatctccctc gggttccaat 2760
aaggattgcc aacagcaata tcagccgcct tatcgatata ctctccttc ataccaaagg 2820
ccttaacacc acgcttaacc ttcagcttag tgagcaagac attcaagccc tggatcgcat 2880
cgccgttgct ctgaggcagc acctcagcca acttcttcat cgcctcaggg atcttcggcg 2940
cattgtatga tatcgcatgc ggcaagacgg ccgtgtgctg ctccgcatgc ggaagggtga 3000
agctaccgcc aagggtgtgg cagagcttgt ggtggataga catgcccacg ctgcccaggc 3060
aggttccgca gagccaggcg ccgtagaggg cgagcgagcg agcggattgg gaggaggggt 3120
tctcgacaat ctcggttagg gctgaggcca gcgcgcgagt gccttcgaca gccataaggt 3180
tgattacggg gttggtgt 3198

<210> 2402
<211> 1282
<212> DNA
<213> *Aspergillus nidulans*
<400> 2402

ctattccaat ttgtactagg gcgtccggag ctctatacgc agggcgtcac ggcatgaac 60
tattttaccc agttacgga ggataagcgt cctgattctg tagaaacaga agtccagtat 120
agtccactgt gctctcttta gattcagcat cgataacaag gtctcgttat ttcattgata 180
ctttcacagt tctcaatcgt gcctcaacaa tgctgctcc ccacttgatt agtggaaagca 240
cgtgatttcg cggctccttt tttgtttctt tcgtgcgctt caattttctc ctgcgttttt 300
ctcaaacatc gttttgtcct cggaccaggc agccaccaca aatgggttgc aggactctac 360
aaaggcgcca atcactaagc ctgcctacgt gatgatagcg gggccatcta tactgcgcag 420
caagctacac taaaatcggc cctgatacta ggcctcgacg agtagccagt acaatggagt 480
ctctggagga aacacagtgg gatgtgacca tctccggcac tgggggttgc cagtcacttc 540
tagctttgta tgtttatcc ctgacttcat gctgctcctt attctaatat ataagcagag 600
ccctttctcg gtcaggtaaa aaggctctcc atgttgataa gaatccttat tacggaggtt 660
cagaagccgc gctgagtctt caggaagctg tagagtgggc ttcagaagta aataaagggtg 720

ggaacacagt tggccggtga ttccgaacct ccccgctgac tcatgttcct ccaaggtaga 780
 gaccgcttgt cttccttttg aggacgccac ggtgcttact cggggctctt ctgagtctgg 840
 atctgatcta gcaccttcca gggcctatac gctgtccttg tcaccgcaac tcctctactc 900
 caggtcccaa ctattgcca ccttggtatc atccaaggtc taccggcagc ttgaatttca 960
 ggcagttggg agctggtgga tatataaatc agccactggc ggagacaagg aactatacag 1020
 ggttccaagc agtcgtgagg atgttttcgc tgatgacttc ataagtatga aatccaagag 1080
 aaccctcatg aggtttcttc gtcacctgag tcagaacgct gcgactcaag aggcattcagg 1140
 tgaactgagt tcaaagcttg aggaggaaga ttcagccaag cctcttccag aataccttac 1200
 cgccaagttc cacgtcccac ctgagctcta taaccctctt ctatcacttt ctctgtcgca 1260
 ggcgctgct cagagcacca tg 1282

<210> 2403
 <211> 1226
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2403

tgattttccg acagtgagca agagggcgaa gattgctcgg gaggcgagag acgcgagagc 60
 aagggcaaaa ttgtcggaga ttgcagtcta gcttacttag cgagtatgcc tatgctagtc 120
 tatgaaagaa gctcaaggat tggtttttagt ataaaaacat acgttggttg tcggtgaacc 180
 tagatatata tacataacag acccaaatac tgactgcttc atctgccacg aaataggaag 240
 tcaagtataa agataaaaga aaagaaataa agggatgata gcgctgtata attggcaaaa 300
 aaattcttgt taactcacc tgtaacaaag cgtatgtata tcatttaaca agaaaggaaa 360
 aaggccgtct taatttctaa tgaacagttg aagattgaaa gggactagta gtaaggagct 420
 gatcatcgaa gagctgcaag acttcctggc ccaggttact gaatctcttc agattccgca 480
 tggcctcggg gatatactga agttgcttcg taaagacgtc tccaggcttg tgatacagga 540
 tcaagaactc gacacagagc gaaagaggaa tgggcgttag aggggtgcacc tggagataac 600
 aaagcacaga ttaagacgag gactgggaac tatatatgta acgcattggg tgcacttacc 660
 ttcaacgagt tcaaatgcga taatttgttt gtcaagtcca caatttcttg cgcggtgctg 720
 gatgatcgct tcttatattc cgtgacaaga tccctcttct cgtcgtgtga cgggattaca 780

caagccattg tctggtaaag gtgtagaatg attgtccgcc acatgagact aataaagagg 840
 agcatgggat cggctctgctg ctgcatgtct aaggggtatt tcgctgagaa ggcctccatg 900
 cgttgtgtta ggatggcggt gatccattga tggcgattcc aaaaatcatc gacggcactg 960
 aaatataaat ccccagctag acactgggtt cgatgggaca gcgcccggcc gctgatcggt 1020
 gcaacgacga tgcactctgt gaaagtggat gtgatggaag tgtcagcggc gagggcgctg 1080
 gaaagaaatc ccatcaaat gggctgggtca ttttgaaagt tggcttcagg acaaggaagc 1140
 cggatcgcta cctgtggcta gctatcagca agacgttaga tccaattact aggaagaca 1200
 ggcataccct ctcgctgaaa gttggc 1226

<210> 2404
 <211> 1044
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2404

gacaccgaag ggcatactgc gtttcatgcg tgtcatttga ctgtatgaag gaaactgatg 60
 taaactgatg tggctcgtag gcctgtactt aatttagtta ggattaccat ctgctatacg 120
 ctactcgtag cgtagtccaa tcctgctgcc tgggtggctgt gcatttccac ttccaagtct 180
 tcaactccctg cggccagcgg ctctgtccgc aagtgcaggc ctggtagtct aacggagcca 240
 gaaaccacgg gcaatttcaa ggtacatcgc tcgctcttct cggacagctg gcaaggtttg 300
 gctcgctcgc tttcccgaag taggtgtgtg catggatgcc cggctcttgc gtccgatata 360
 gctggcctga ggcctttcca taccaactgc ctccgccttt tcaggggtgt cagattgcct 420
 gccaaagattc aaccgcttga ggcccgggag ccgcagggtg ggtcaaagt tgatgaggac 480
 aatcgcttgg tcagtggaat tgcgatcatc ctgggtgaca gaatatacaa ttgaacgata 540
 gtcagcatag gcgtgaacct ggccgggtccg tttcgaagga cagagtaagt gggtcagctc 600
 ttgtggagcg tcatccgggg gccagagatg gatgcctcga gtttcaaagc gctcttcgct 660
 gttctctact aagcgtccgt ctgggttcgct gagttcacgc ttgaacagga gccccgggtt 720
 ctctcaaga ccttcctcgt cgatgggaca ctttcgcttc cgagatacca cgcgtaccct 780
 tattcgatcc cgaggtacaa ggccgcccgc gccaacgctt ctggggagcg ggtcatttac 840
 gaggtcaata tagctggatg cggagatatt gtatgaacgg aatttcgttt tggctagtat 900

gaaatcgcg ctcggtttcg gttcaacacc tccgtcgtag tctgagtgat agtgtctgcg 960
gagtcgtttc cgtggaggct catagttagg cttggatgac gggtcctaga gttttggtga 1020
ggggctcgtc aggtagagggc gttt 1044

<210> 2405
<211> 2220
<212> DNA
<213> Aspergillus nidulans

<400> 2405

atggaggaaa agagagataa tgcggaggca cacgccccgt actgtcaaca aatgcaagtt 60
ctggatgacg gggcatatac gacagtttcc cccaaaacta ttggaattag cgtgaacgaa 120
ccaacagcga caacaacaac agggcaatat ggaagcacta ctcaaacggc aaaggcgcaa 180
tatcaaagca tttgttattg tgtttcattg accgactagt ctggcttgct cgaaataaac 240
atcaaccaac aacggcttat atcgtggcgt cggcgttatc aaggcatact tacctatgag 300
cgatggcctc ttctcgtgtg gtctacatga tttctcttcc ggcgtgatgg ttttgttcc 360
tgtccattaa gaatggcatg tattttgtct gattgactac tacctttggt ttggcttttc 420
agtttatgat atcacttggt ttcaccttg tgacgtctg ccatgcctcg gttggatctc 480
gactctcgtt tactgttatt tgtctagtta cgcgtacggc gttcagtggg atatcacggg 540
gcatatgggc ctcggattcc gccagtcgc ttcttatttc tgctcgactt tggatcttac 600
cacatcattt cgatagctat gtgcccgggt tgaatgatgt ccttgggcat gaagacaacc 660
ctatgttcag acatcttgag aaatcaatac aattactgat gtacattctg ggaaaatata 720
actccgtgac agaacgacct aaactagtag cttctcactg ctctgtaaata ttagatgtct 780
ccctcgcctt aggagcgaag atccggaagt atgacggcca acaacgcat atgctcgtcg 840
acaaccaacc atacttttat gcacgccttc atataaattg gacgagggtt atccgtcgtc 900
tccaaacttt ttgatttagt cacatacccg cgtatatctt gattcaaaaa cataagcatt 960
gccagccatg acctccctcc tccgtacag ccgctcaatc agagccgtca accctaggac 1020
ctcccgattc cctgtcttcc ttcaacaacg attctacggg cagagcacct acggagatgg 1080
tgaaacaaac cctggagaag acaggaacgc accgaccgt gacatggagc atccaggtgc 1140
gtgcaatttg tcagctctgc caccactgc taacacttac taggagcacc acccccaaac 1200

gtcagcaaag agaactccac caagtcccaa ccttcatata agcaggacga atccaggagc 1260
 ggcggtgctcg aagaggatat tccaaagaaa cagtccgaca aggctagacc ggtcatcaat 1320
 gatggccgctc agacatcgaa tgtgaaagaa gacggaaaca cgaagtctga cgtgcccag 1380
 gatgtgaaaa agcataatga agagattgat cagaggcacg acaagcctta taatcgaatt 1440
 gacgatgggg gaaagggttg gaagggattc tgggggaagc tggatggggc agagggttat 1500
 taatccagta tatgtgtcct cacttctatc atgatcgccg gttttaaaat cgatagaagt 1560
 cggcttatct tgtattatat tatatgttaa gatgaatata aaatgagaat ataaagcgat 1620
 tgacttttta aatgcgtaga ttgctgtagg ttgactgcag gaatcgcgaa ccagccagat 1680
 ttaccctgaa gctcttttagc gaccactgcg gatctctcgt gtcttgaagc aacgtaacct 1740
 cgacttgagc tctcgatcaa ctccgtctcc acgttctgca attgcgtcgc atcgcaaaac 1800
 aaatcagtca ctcatthaaa attctggact tcaaaatggc caaggacaat aaatactccg 1860
 tcacccctcc gacctacaat gaacggagga acctccctat catatgttgg ctccctggaac 1920
 ggacatttcg cgagaagtga gcggcgctca taccataca gttactgatc aaatgaatca 1980
 aacagtttga aaaaggaggg gaaaaaaaaag ctaatatgtt gttaaacagc aagctggact 2040
 gggaagtaat catcgctgac gactgctccc cggacgttac gctcgacgtc gccaaacagc 2100
 tccagaatgt ctggggcgcc gaccatatcg tcttaaaacc tagcgctgga aagctcggcc 2160
 tcggaactga ctacgtgcac aggctgctct taacaaccgg acaccttatg atcatcatga 2220

<210> 2406
 <211> 1027
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2406

gactgctgac aggctcttct agcaaagaaa ggaagttatg aagatgctct agaatgccta 60
 gccagcacccg aggatcaaaa tggccatgct gactcttcag aggatgagct aagcacgatt 120
 aagaagacgt cgccagtggc ccagcggaag caaaatatca aggcccgggg gagaatccag 180
 gataaatgga cggcaccaaa cctgccgaaa agtacattac aaaagcagcc agaagaggat 240
 tcaagaccgc ggaaacggtt gattcgagga ccaaaaacct gggtgtcccc gataaccgtca 300
 agccccactc agaacgaaac acctccaaag aagagcttcg gtcggctggg ccaagggcgc 360

aggcgccctt cacctacacg atcagagtct cctgaggctc ctcttgtgac ctccgatgat 420
 tctgactctg catttgatgc gcaagatggc gcggatctgg agacgaaagt tcttggtttc 480
 tttaacggat gcaccgcacc ggctcttgcg gacctagccg cgattactga ggaccttgct 540
 gagtacataa ttgcaaggcg gccattctca tcccttgatg aagtccgcgt gattcctgct 600
 ccggaaaccg aacaaactgc aaccaagact ggaaggaaac gcaaggcacc caagccggtc 660
 ggagaccgta tcgttgacaa atgtcttgat atgtgggtag gctacgaagc cgtggattcg 720
 ttagtcgctc gatgcgaggc gctaggaaag ccggttgcca ccgagatgaa gaaatgggga 780
 gttgacatat ttggcaagcg agaggggtgaa ctggacctag tttcgatgga gccttcagga 840
 tctcacgact ctggtatagg aactcccgct agtcaaccat ctgatgaaga tagtgatggt 900
 cctgggtcaa ggtctcgaaa agctcggttc atttcgcagc ctggaataat ggctgaggat 960
 ctcaaaatga agaattatca gattgttggg attaactggc tgtctttgct ttttgagaat 1020
 gaactaa 1027

<210> 2407
 <211> 3180
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2407

gctccacact tgtgctatcc tggtcactga agaagcaaaa atttgctgga cagctgtcat 60
 gatgtagatg gccaaagcta cggccatgta attggtttag ttcttcgttg ccagcttgct 120
 gtaaaaggat aggtatgtct ttaacgtagc ctgtagcaac tgacaggttc cagagacgat 180
 tttcgcaaat cccagagaa cgcgctgtcc ccaaggcctc gaagactgcg ttgtcaggta 240
 aatttctcct tatatcgata ctctgcacct ggtcgacctg tgcaagccag ctgagaacat 300
 catagatttc tgattctagt tcgggtcaaag gttcctttct tgactggagg gcaaagttag 360
 taaagttgag tgccatcgta attgctgtgg agttgtcgct ctttgttttg gatggtgcca 420
 atcgacaagt gagtattgtg agagcccatt cccggaagct cgcacagtta cacgtagggg 480
 cgtttttcgc cttagccttc atagcataac aatcttcggt tgagcacctc ttgacattag 540
 cgtcgagaca aaccggttgc aaccctcca agaatgggcc agtggggcac ctgtatgtaa 600
 gtgcctccga tccgaacgca aacaagagcc caggctcagg tgtggtcgta tgtgactcgt 660

tcttagccag actatcacgt tgcgaaagaa cattactgag accttcccac tggtcagctc 720
taaagtgtga aacattttaa ttacaggctt attttacctt tacaatcggt agtggcagtg 780
agctgaattg ttctccgtga aacacagcaa cgactctgtt aagtccagag agtgtgtcca 840
gttggacatt gcgatatttg tcacactttg gttgtgaaat attctataga agtggatattc 900
ctgaacatag atcaaaagat ttccatatca gatataccgt tgacaatgag cacggtatttt 960
gagggggccag aggatgcgtg cccaacaagt gagggcgaag cagccaatcc gaaagcgctg 1020
tgttttattct caagatatac gaaattatcc catctagatc agacgtgtgt cccaaacttt 1080
tgaaagggtga tatctcttgt ctgctactgt gctcaccggt tggttatcct catactcacc 1140
gaccgggagc caatcatgat ggagccttca aagggtattt catattggat acaggctggt 1200
caggcttata ggctgcacct tgatatctta ctaatgagta gagtccaaga acacttacta 1260
tctatgtcgt ttgggtcact gtttgcagcc tgtaaagccg ttgctaggtc atcattcccg 1320
gttaggaaca tgggtccacgt aactgaaaga ctggatgata aggccaagtc gtcaatccgg 1380
tcttaaattc cacaatatac aatgctactt gacatgaaat gtttcacgac aatcgagtct 1440
tcaaccgact ttgtggaaga aaaatctcga gaaacacgag ccctttattt gagcttttca 1500
ccagtcttcc ccatggcttc aataagtcgt cccgaatat gctccccgac aatcgtttcc 1560
acccccgacc cgtcaagtgc agtgcacttc aacttcagct ggccattgag gaaaaaaggg 1620
acgctgtacc tatgcttctc ggtgaagggtg atcacccgat gacggggcgt gcggtagtat 1680
ccaccggtga acttttggat catgtcgccg atgttgatca cataggcatt ttctgtgga 1740
gggactggaa tccaggtttc cgtgggtgga taccagacct ctagaccctc ggtgcccatt 1800
tcttgtagga ggatggtgat gcatccaaaa tcagtgtgat cgccgactgc tgacagttag 1860
gattggtttt ccctttgtct atgaggggtc tagggataga agaggactca ccaccaaact 1920
gtctctcgtc tctgactggc tgaggagcgt aatgcagaag tcgcatagga atcgagggct 1980
cgttctcagc cagcgcgtcc agcgcgtccg gcgggcaatt ccactctgag ggtaaaccct 2040
ttgcaaggat tttagcagc actttcacca gctggaccat gcgagcttgg tatttcataa 2100
tggggatccg gaactggtcc tccgggagtg acttcggcca cagattggga cccgtggaga 2160
acgtaccgct gtcaggatgg tcctcgggca cctcatggcc gataatgaag cacttcccaa 2220
tatctcaaca tcagcacatc acctctctag agcaaaagaa cttacctcct tggatatctgg 2280

aaggagacct tcttgggtgga cctgggatgcc gggagggtca tatccgcgga acgacctccc 2340
cttactctta cegatccata cgtccatctt ctctctctcg gacaggggtga agaagagctt 2400
cgcgagtc atcgctgct tttgctcttc tagcgagact ccatggccta cgaggctcag 2460
gaatccgtaa gtagtacatg cgtggcgcat cgcgttgacg acattctggc ggtcctcctc 2520
cgctgaagac ggatcaagcc aggcgctgat gtcgacgggt gggatcgtct cgacactgcc 2580
cattttgatt tactgaagtt ttgatgctgt aaacgtgata gtattggcaa agctacttgc 2640
tgatcattta ctgctttgaa gactggagag ctattttata aaagtgatct catactggag 2700
attatggatg atggtatggc cagactctgg gccagcctca tcttgactat ctggcatccc 2760
gaagctacca atccaatcaa tgctcaagtc tgctctatct ggctgagttc atgcagacga 2820
gtggaaagtc cgattacgtt gctgattgcg agtatcgccg agtaattgcg gcggcaccgt 2880
tccagttgta ggcgtgaaac tccgggccga gggcatggtg tcagaagaac cccatgttct 2940
ccgattaagc cttgtttatc tttcaataca ccatgacagt ttctgtgtca accggctgac 3000
agcagttcta attctcatag gatcgagta tcgttatatg ttagcaagtg ttagtatgcg 3060
gagtatctcg ccgtcgttgc tgcatcgga tgtctgccc gaacaacagg acaaagaaca 3120
atggattatg ataatacagc caaacacaa aaatataatg agaacgatta gacgaagggt 3180

<210> 2408
<211> 1291
<212> DNA
<213> *Aspergillus nidulans*
<400> 2408

aaccctgag actggtttta gaatagagag cacatgtcga gccaaatagg aagtggatct 60
tgaagcctca cgtctggagc aacaccggt ctttcttaac gcaacacatc ttccaccgaa 120
ctgtctcatc caaaataacc atgattagcc actcttcggt tagatcctga tactccaata 180
gtcgtgtcga gggtagagtt gcatgtgatc tggggctgca ccactcagcc tcataaagtc 240
tatccccaac cacttttcta ccgccctata caaaggacaa cgatcagagt ttccaccag 300
tcacccacc ccgtctggcg aaatggataa acaggcggga tactgatgca atgcgatgat 360
tgtctggagc atggggcgta taaaccgggt gagcagccag cactttctca ttgtcttcaa 420
ccacatccag ttttgactgt aggagaacaa gcagaatggc tcctttcatg cagaatggct 480

ccgatgctga cgatctctcc tcctctaagt ccaaacagtc cacgcttacc tcaactcctta 540
 gctccgtgca cgcagatctt ctaagccaag ctccaccgtat ccccgtgac attcgcaccc 600
 tgcgcgagct ctcccaagct gggctgcagg gcggtctgat cgatgacaag aagtaccttg 660
 tatgtcttga gcctgggtgct taatgggaga tcgataagta ttgtaggact gatctttgta 720
 tctgcaagac cgagaacatc atccagctcc tcgcaagcct gcccaacacc tccacactga 780
 ggacaaaaat cacagatacg tttgtcaaga cgctctggga taacttgcag catccgccct 840
 tgtcttatat aggagatgaa ttccggtata ggagggtgta cggaagtctc aatgtgaccc 900
 gctctcttga aaagaaagaa gagaaaagag acatacacta acggtccgta gaacatcatg 960
 taccctcatc ttggggcatc gggaagccac tatgcgcgga cagtgactcc gaagcatcca 1020
 cgacctgcgg tcttgccaga cccggggctc atattcgact gtatgtcatt gcactcttct 1080
 agtcatcccg ttcagttgct gatacagtga atgcagcgtc actggcccgt gaaggtcccg 1140
 caaaggaaca tccagccgag atctcgagca atttgttcta ttttgccatc atcatcatac 1200
 acggtgactt tcagttccgc tcctatagtg tgcagtaaaa ctcatgtgcg tatagatctc 1260
 ttccgcaccg acgaggcgga cccaacgcgc a 1291

<210> 2409
 <211> 1021
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2409

tcccacgggt actgatattt gcaaccatgg ggttcagtag ccagaagctg gcatacttta 60
 acgcacgctc cgcgctcatc ccatgcgtta gggtcagcga tttcgcgaca agccagcctg 120
 ccacaacatc ggacagcgcg aagagtgcct tgccaaagga gaagaatcct gggatggccc 180
 aggtcgtggg gaggagcatc cacgctagca atgggtgtgta gcggtaagtg tctcgggcgt 240
 aaggggagtc cccttgagat acgtagcgcg aggcgtcagt gaagaccatg tagtcgatat 300
 ctgtgtattt gacagctgag tgggcatctt gccaggcccc gtaaaagaga agaactgtgc 360
 ggaggccagc agccaagccg tagaccatga atgggtctttt gaagagtgat tccattgttt 420
 tcaaattgaa tttttcttgt aaataagcct tttgggtgatt ttgatggacc gggtcagtca 480
 tctgagactt gtcccactgc ccgctgaat tggttaacaag cgggttcagc agttgggaaa 540

tccaatcact agcgaagaag ctcccttaaa tattaaatga gcacatttag acattcgcgc 600
 ccaaagtttc actcaaacag gggtcgggta ttgccgtcgt gtagttgtta gaaatgcagg 660
 aaactcgggg tatcttggca tcttcaaact attgatgact cagcaatcat ggctgatcag 720
 cgttcccaa tcgatgcaat atcgggtata gttctactgc agctggcgat atgacagact 780
 gttcatcatc atgatgtctg gtcaaagacc acaggaatgg attgctattg gcttttatag 840
 taggtttcag aagaccaact gaaatagcgg acatagtagt ccgggtatag aaacaaaaaa 900
 caatatatat atatatcaaa gcgagggttt acgcctcgtg agacgaagggt gtattacatg 960
 agaagtaggg aagccaagcg gttgtcaaaa taaaaagata tggatatccac ataagcctga 1020
 c 1021

<210> 2410
 <211> 2569
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2410

atatcggggg gtatagaggg gccgctctga gcggttccca tgtctcgagg gcctagtggg 60
 cgtctagaag gtgaacttag tggtgacca tgtgttgccc catgagagat ataagaggat 120
 ggccggggag atcgggtttc aacgtgtcct agttcattgt caccccaact ggctgaacct 180
 gaactgacgc catttgctgt aggtgatgtt gtcttcagct tggcaaggcg ctgcgcaagt 240
 gcatctggag gtgccgaata tctattgggt tggcttgca agccgaagga ctggaactgc 300
 gaaggactag gcattcgcgt tgacgagtct cccgcattgc tctggcggcc gcgttgactt 360
 gaaggtaaata atgttcagc aggtaatatc tgcgatactg gtcgtcgaga gattggtgag 420
 gattggcccg ccggcttggc catactcttg agattattct ccacaatttg ttgcttgatt 480
 gagtccgcgg tcccctgctt ggttcgtacg gcctagcgaa agatatagtt agcgaagaga 540
 agcgcgatcg caaaacaggt ccgccgagaa ggacttgcca tcatcaagtc cgaaaactgc 600
 ttatgccaac cagggatctg cgtggaggcg gaccgatagt cagggtgatt agggataaga 660
 tttatgggtga tttccgaagc gcgaacatat tgtacgtatg ccctatcgat ttgatcactg 720
 tctgcgaacc ctcgaaactt cgtaattgcg tcttgagccg tggccaacaa atcggtgatc 780
 tatattccaa actaatggtc aggacggtcg ttttcagcat agcacaagcc acaagccact 840

taccgtcgtg gattcgttca catctaatagc tgctgcctcg tcctgaaggg cttttatatt 900
tggaagcgc ggcgagagcc catcctgatg cccccaccc ggagccgtgc cacctaggtt 960
gtgccggctg ggagcatcct ccggagcgaa actcggcggt gaaggaagcg ccgcagcatc 1020
tggggccatt gtacaattct agcgctagga attcatcgaa gttgaaggac ggtcaagcaa 1080
ggcggaggaa aggccgatgg cgggactcga tgtggcggca acagagcagg cagccgtaaa 1140
aaggaatccg acaacgaatg aattgagggg atacaaggac tcggagtaaa agagcatcta 1200
tgtgcaactg aaagagggac agcatgcagg ggcggatgga ggatatagag agagcaggtc 1260
aataatcagc gcatcctgtc gctgtctgac agacaggttt gcgggataat tctggggtaa 1320
aattatgtat gaatttatgc aacgtataca tgccacttgg tgattattga ccgctctata 1380
ttctgcctgc actactgggc ggttctgcag acgaccgcct ttgcctatga cgccacacgg 1440
cacatgcttt ggtgctgagt caaccagtgg ttaggcatcc aggccaatgg ggcgcatcgc 1500
aagcaataca tggaaacctg ggagctcaag tcaaccttgg agctctcttg ctgtttactg 1560
ctgtctctcg cttgattcac cctcgccaac ttctcctgtg ctgttctctg gtgtcatctg 1620
ttaataagca attttattcc tcaactgacg ctgtacactt gtccctccg tgcgtcttat 1680
tcctccccgc atccatcatg gcgggctggt tctcctctgc ctcaccgctc gatgagcaga 1740
tcgagcgcgc taccgcgtct tctcttgaag atatcgctct gaatctcgaa atatctgac 1800
ttattcgatc aaaggggtga cagccgaaag atgctatgcg atctttgaag cgacgattag 1860
agaacaagaa ccctaacatt cagatagcga ctttgaagggt ttgtttcctt ggtctgtcct 1920
ttactcgact gttctgacaa aattaatctc ttagctaacg gatacctgtg tcaaaaatgg 1980
cggaacccat ttcttgccg agattttatc aaaagagttc atggacaacc ttgtctcgct 2040
cctgaaagcg gaaggtgtcc cgctgaactc gagtgtgagg gacttgatgt tagcgctgat 2100
acaggactgg gctatggctg cgcaaggacg catggacttg agctatcttg gggagacata 2160
ccggaagctg caaatggaag gcttccagtt cccgccaag agtgcgatta gtgggagtat 2220
gctggaaagc agtgcggtag gccggaacag taccgttcca tctcaagcta gtctaactg 2280
atTTTTatag cctccggaat ggatcgactc cgacgtttgt atgcgctgcc ggacgccctt 2340
cagttttatg aatcgaaac accactgcag gaactgcgga aacgtctttg atgcgcaatg 2400
ttccagcaag accctgccat taccocatct tggaatccta cagcccgttc gcgtcgatga 2460

cggttgctac gcgaagctaa cttcaaagcc gtttaatacaa ggctctttgg cggatcgatc 2520
gactttcaag aacaactcga tcacaaaatc caatgtgttg gaaccccg 2569

<210> 2411
<211> 3318
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 2411

cgtagatctt tcaacagggg cagcttgacc ggagacttat ctcccatctc tttctcagct 60
tccagcaaaa ctgaatacaa aggctagcgg attcttccat caacatcagg ggcatacataa 120
agcgttccca gctcctactt gccaggaaag atgtttcccc caactggaca ccaggctccg 180
tcaccttcag cgggcagcaa cgccgacggc gccgctgttg actaacaagg caccgatca 240
tctaaaagaa gattctactc agctcgctag tctcagtatc ccaactgcaa aggatgaaaa 300
tctcactgca accgtccgag gcactgacat accaacacac gatgcacaat ttgccgtttg 360
ttagcgatgt ctaggtttcc gtatcatcac atccgtggag atctcacgca gaaagtggca 420
agtaggtgct ttgataaggg tcagttctgg aataggacat gggacatgta agatctcccg 480
cacgtcagcc ctgaagtcta gcaactacca acgcactaag atactatatc tatgtgcctc 540
aacgtttagg cgggtgtcct ctgctgctta tccctccgac ccagggtccg actctgttcc 600
gtcaaataca caaggcgctt gactgctcct tacatcttcc aaccgaggaa ctgaggggca 660
tagttctcaa tttcaaccgc gagggctttc ctcaacctac ctctctacga caatcggaca 720
gccgtaacat gaaagaccgc ttggaggcaa ctattcccc aaaactagat attcgagatg 780
gttccggaga tatggacaag caggagatga ttgtctctga aaagatgatg gaagcagctg 840
tatcatcgac aaaatttcaa gtccaaagcc aagaagcagc gtctccgtat tcagcgtaaa 900
aaggatacta gtgatgccat cagacgttca ttgtgctacc ttggtctgct tgctgacttg 960
acggaccata tcgacaacga atggtataaa cagctggagt ccaaacagcc ccgtgtcgat 1020
gtcaacaagc ccgttcctta tccattctgg aacgaggccg ttttcattag cgttgatgtc 1080
taggtgcacg aagtcagcca ttcgcaggtc acggaaatcg gtatctcagc gctggatact 1140
cgcgatctta tcggcgttgc accagacacg aacggcgaag agtggcaatc gcgcattaag 1200

tctcgccacc tacgagtgaag agaatacggg aatcatgccg aacatctgtg cgtccggggg 1260
tgtccagcca actgtgaatt cggcactagt gaatgggttg catcggatga cctatcaagc 1320
gcagtccaag cctgcttcac ccttccttca tccctctatg gagccgacaa gaaacaactt 1380
cgccccgtta gtgtttgttg gacacagtct agactccgac attcagtatc tcaagcttgc 1440
gaacgtccna cttcaggggc actctggaat ctctcagttc gttgatcgta ttgacgtagc 1500
agcatccttc cagcttctcc ggggcgaaaa ggagcaacgc tcactgggca cagtcgtccg 1560
ggagatggga atgactgggt ggaatctgca caatgccgga aatgacgccc gctacacctt 1620
gcaggctctg gtagccatgc tgataaacca cggcggtggc gggctaacag gcggatcgaa 1680
cgttggagaa acgcctcata tctgtgtcga aatgggtgat taagtgcacc gttcatcatt 1740
cagcacctgt gtactgtcag ggattctaag gaataaggcg gaatttgcag gtgtggctgt 1800
tctatgctcg gcaagagctc gagaataagg gcagttgcct gttacgtaca atgatccata 1860
tctgatctta gcattaccaa acggataaat tcaccgcagc ccaagccaga taacatcttt 1920
gcatagtata ccataatcc atggagattt gaacatggga gacagattat ggcaacataa 1980
ataggagccc aagctgctgg caaggcggaa aaaaaactat ttctccattt acggagcaga 2040
atacaaaagc acgccattgc gaaaccaacc gtcacgggca cgtaataata attccgctgt 2100
tcagcccaag agaagagtct tagctgagat catccagaag cggcccgga aagtgcaaag 2160
ctgactcaga tctgagccaa gcacaaccgg tacatgactt cggccaaaac ggataaactc 2220
aaggcacatc tgacggacta ggacggcccc ttatggggcg tttaggatat tttgaatgac 2280
aaggtggcca acaaagtatg attgagcatg gcctcatagt aaccctactc ggtcctacct 2340
gagttgaagc caagcataga aatacgcaga gatttcagtg cgcaaccgtc gcgccatcac 2400
ttgacattcc tttgttccga atctcgcatt gatggcacc cgcaccgtgg tctcgcagaa 2460
cgcaggacca tatagcgcca atatcgggg gcttggctga tgcttgaacg aatggagtat 2520
cgcacagcac cctcgggggtg ttgagttcga ccagagccgg acacgagcag gccaggcagc 2580
atgatttagc taacaacggc taagcgaagg gctcttgggc ttggactgag gatgaatggg 2640
ttatctgact aagataagat ggtttgcctg cctgggcatt accaagagcc aagagcggac 2700
gggctgggct gccaaagtca gtttcgacgc tgagtgatac agaccttggc tgtggggaat 2760
gatataatgt ctgttatcta gctaaggaag gaggcataat ttctcgtccc tcatgagaag 2820

aatgtgatct agagagtgtg tocaaggaag caaaggccag tacgatcggg gattgaacct 2880
 ctttcagttc aggtactcgt acggaataa ttggtatggc cggaatgttt ggcgtccgac 2940
 tttcgaaagg gttcgcggcc cccatgcgc ttcagcttaa caagcttact ttctctctat 3000
 gctgagactg ggtgaacttg aggtgcggaa taatagacaa gggcaactcg ggctctgaat 3060
 aagatcaggt gcacgttcgt actcgaaacc gttgtaggat ttggagtaag ccggcgggcta 3120
 cagacagagt acgtgggtctc ggctgccata cctgatggga gccagtgggt gcttcattct 3180
 tggcgttatt tcgttgtaat accttcgtca cgtgaaatag aggttgtaca catagttact 3240
 tgcccaatcc agctgctcca tacatctcat gggataaaca catcataata agcagtaggc 3300
 aagaggcctt cgagctgt 3318

<210> 2412
 <211> 1172
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2412

gtaaagaggt ctaagcctcg ctcgtatact ttgaatgact cttcaaagta tttgtgctcc 60
 tcgaggagat tggcatagtt gactacagtc tgaggagtcg caatgcgtag ctcgaaaatc 120
 ctttcataca ctttcttagt ctctcgatc gatgagacac tttccaccag atcgacgtag 180
 aaactccaca gtttccaact cttgtggatg cgctgttgag gagaaagagt ctcacgaaa 240
 tagtcaactg ttgacttctt gggggcctgc gttgcttttg ccatgatctc aaccgcttta 300
 tcgaagtttt cactgcgcaa ctccatctct gccactcac accatgtttc ggcaagctca 360
 ttcactgatt tgaaaggaac cttaacagct ttctcgaaaa tgatacgtgc agtgtccaag 420
 tctctccgc gctcgtagaa cttcgcatag ttaccacaga gctcagaaaa tttgccaacg 480
 gccttctttg ggtttatagc tgcaatcgca gctgtgtatg tattgacaat ttcgacgttg 540
 ttgtcacccc agagagccac tctcttctcc cattcgatga cattattggg attctgcctg 600
 agcaatacgt cattgacgag gaatggccgc cgggccatga gttgctcaa cctaagcatc 660
 cgcaaatcaa ggtcgaaatc ggcttcctcg tcggctttgc cattatcggc tcgaacggct 720
 gcagcctcca tcaagctgcc tataatagat tcttcgaatt cgacatagga gtcgaatata 780
 agagtgaat cacgaactgt catgactgtc gtaatgccct cctcgaaaac atctcgtgct 840

ttctcgaagt tgccttttgg gatccagtat gttgccaatc cagcccataa tttgcctcct 900
 tggtcggcaa atcgatcaat gccgctgcga aggatagcat ccacatcaat gccagtctga 960
 ggacctgttt cgatcttctt tgcctttgaa actaataagt caaccatctc agtccacagc 1020
 tgggaagttgc tctttccttc ccgagactga aatcgcggaat tgtcgagaat ctccatgtat 1080
 cgcttgatgg catcggtgta atggcccatt tccacaagca ggttgatgta ctcttctgca 1140
 ttctcggat gtactcgcat gtagcgcgcc ca 1172

<210> 2413
 <211> 1710
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2413

ctacccaatg cgacggggat cccggatgac ttcaccccgt atggaccagt ggtgtaactc 60
 ttgtcgactt aaacgacctg atgacttagt aacctggcga cctggggatt atcctttgtg 120
 gcttcaacca aatgggttagt gttcctgcgc ctctgccctg cggaagttga aactaataaa 180
 catttaggaa tcttgatatg gacctgagc gctacctcgg acgcatgatt tcttgttctt 240
 tctgtcgttt tgcgcttttg atgtagattt actgactcgg cattcgttct agtcgctgca 300
 tttctcccag cacactggat cacaaactta caatggcctc aggcgccaag accgactcgg 360
 agcacctttc tctatcccaa acaatgcttc acatggacca ctcaaatca aggcataatcc 420
 aaggacattt ggcctcaaga tcccaggatg atgaactttt gagccaggat agcttctcct 480
 tgtgttcaag tactgcccga agcgacaagc cgtggctgat gaatgatgtg gactgccttg 540
 atagcaactc tattgctca agcaaaccg actctccagc agtccagatg ctttcttttt 600
 cattatcaca acatgccctg ctccactccg gggtaggcgc cagcgacatc atgtactcgg 660
 ccggttccga atttcatggt ctgcctgacg ttggcgaaca agccgaaatg gatttctcca 720
 agcaggattt taacccttac aattccctgt ttgatttttc tgcctttgag aatgatgtca 780
 acggccagaa tgggactcat ccatcatgca ctctgatca cggctctcct gccggagaca 840
 actggaacct tattgtctcg gacagccgat ataaccagg atccatggaa catttctctg 900
 gcaatgtttt taacatgcct gtttcccctc cactgacgga agcgagcaat gatatcgccg 960
 ttacctcttc ctgctcccaa tctggatacc ccgcttttat gtcgcatgag gatgccatgt 1020

tgaaagacat cacgacgacc ccagttggaa cccacgggat aaacctagga gacccgattt 1080
 tcccgttgac accgcctctc aatgagcagg accccaacag gttagttaca ctcggcagcc 1140
 taggtcgtcc aagctacatt ctgacctgca gcaggacaat ccgcccttcg aaaggtgcac 1200
 gcaggccagc actgcaggtg tccccaaacc gaccacaggt taaacaggat gccgagtttt 1260
 tcccacctct tcccgtaaaa gagccactca gatcgaggtc caaggatggg agtgaatcgc 1320
 gcaacccgcg tgaccacca tactactctc tgccaccgca ctctgattca aaatattact 1380
 gccatttgc cactggagac aagccgtgca atcacctcc cactactcag aagtgtgctt 1440
 accagtgagt caaacatggc ccggcatatc tgaatctaaa ctaatatcac cagcaaatac 1500
 ctggattccc acttgaagcc atatcgttgc cgggtcccca gctgcatgga tgcccagctt 1560
 cacttttctt caaatgcatg cctattccgt catgagcgcg aagcccacgg tcttcatggc 1620
 cactgggaca acccccactt tgtctctttg aaggatgtga ccgttccatc ccaggatatg 1680
 gattcccccg tcgctggaac ctttttgacc 1710

<210> 2414
 <211> 2120
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2414

gcacctctc aaccgtgtta agaacgttta tattaatgct aaatgccact aactaggccc 60
 taattaaacc tctccaattc ttgcgggata tctggatact caccctctat ctttatgctt 120
 acacaccaca actctatata agaacaaata ctccgtctcc aggaaggttc ctgtcactgt 180
 taccattata tgctacaaca tttcaaacc taaatgaacc tttgaatata ctacgaccaa 240
 gccgatgtcg ttataggtaa acagagataa atcttcctat ctaagcgtgc cgtatgaata 300
 aggaatagct aagagacagg aagctaggag ggtcgaaagt cataaatagg gaaaggtggc 360
 atgtgccagc cgaatgaact actcgcgagg actacaagtt ccagcgaggc ctaccgagcc 420
 ccagccagta ggttttaga aggtaaactt gctaaacctt ccaccacccg ccaagcatta 480
 gggttggttta ggcttttagg taatctattg attctggata ttatcgcccc catgggtagt 540
 ttattcccaa gcaaccaccc cgtgaaacgc ccgggcccat cagctaagcc taaaacccgc 600
 cccaatctgt tgtgtaagtc tactgatgct agcaggccac tttgaaatat tgccgggtta 660

tttaatatgt gaggtcagtt taagcataag attacttctg taaagactta aatcataagg 720
 cttgcatcaa tacttgacct attaatatac atcacataaa cccaagtccc tgggtactta 780
 ggggtgtagcg ccggatatta caatgattcg tcagagactg gactgcagag cttgatatac 840
 aggatttacc agacctttga cgcttcctct gatcagggtg tgctgcagct gcttttatga 900
 aacctggcta gaaaagggtc aggaaagcac tgaagaacat acctagctgt gggttttattc 960
 tatcacagga atctacgaat gcagagagta aaataatttg gatagtctat gaaaaaattt 1020
 agtggttataa agattgaagt tgtgaaagta gccgacctgt gaacagcagt tgttcaccc 1080
 atgaaagtac gagcgccac tgggtactat gtgactagat ccggaagatt tgacactgac 1140
 agctggcggg aaacggcaaa catgacagac ggactgaggg caatagctca gtgagtggca 1200
 gatttgtgga cctgagcaga cgcgagacat cctgatatcg agcagcggag ctgcagggca 1260
 cggcgaaggc ccaatgagta cggacaaagc cgaagtcgtg ggtaagaaag agtcagacgt 1320
 ccgttgttcc tttcccttc ttttagccca actagctcac cgcagccac tatttcggcc 1380
 cagccagag tctgccagaa gaattgaagc ggacaggctg accaaaagat tacccttagt 1440
 gccagatcac ctcttgttcc ttttgtgca ttgaaaccgt gcagaatcac cgccacaagg 1500
 agccagggtc ttcttgcga acccggtcct ccgcgactgg gtctccttca acctggatga 1560
 ggtctgtaaa gccgatacga agctggtgga gacctgaga acctgcgggg acagagagga 1620
 gcctgccgac tcggccattg ggctgcctt tggattcgcc cctggcaaga cctattggga 1680
 ttttattgcc aacgatggcg agggcgagga caagggtg cggcagagac ggtttgcca 1740
 gggcataaag tgccgcgcgg ccgggaatcc ccagacgcac caccacttgc actcggcggt 1800
 tgactgggca gggctgggag aagctacggt cattgacgta agtattgtgc gctgtgtgtc 1860
 tcgctttttg gatcaggcta actcgggcgt gcacagggtg gtggctccgc gggcatgtat 1920
 cgatcgagct ggccaaggcg ttcccgacc tggaattcgt cgtccaagac tttgagggcc 1980
 tcaagtcttt ccacgatggc gttccggatg agctcaagtc gcggattagc ttccaagcgc 2040
 aggatatcct gcagccgaat gcgcacctta acgcgatgt ctaccttctg cgctcgattt 2100
 gcatgactgg tcagacaaat 2120

<210> 2415
 <211> 2041
 <212> DNA

<213> Aspergillus nidulans

<400> 2415

cgataccttt tgcctttgct ggtagtcata gataacttcc gaatatgctg acatagattg 60
ctcctaaatc gtctgaactg gatttcttgc tttcagggcc gagatttcgt atcgatgtgc 120
gcttagcaaa gctttcgata ttctctaaaa ctgcatcttt gtgcttctca cgctgttcgg 180
tgatggctcg atgagtgatt tgagagaact ctttgaaagc gaccaccatc aactcctgga 240
accgcgtgat agctctgagc tttggattct cggaaccgtg atgagccgac tcgtcaaggc 300
gtgaaaagta ggattttaag actgaaataa aagaccctgc atcctgaacg tcaagaagtt 360
cctccccgtt gatgcggaga attgctaata cgacctggaa gagcactttc ggctcctcca 420
agaagaaaac atcgaggact ctaaaggcaa acaccagggg catggagtgt atatacaaag 480
aaaggaacca gggaagagag accacagaca gctggacatc agatttggtc agatgggtccc 540
aaagaatcgg catagtcttc tcaacaagcg actcaaacac cttctggtca agcaatgtgc 600
catacatggt ggtcgagtaa tatcccgga ctaaaccgtc gcacagaaca gagagtagaa 660
agaaggcttg ggcttctgac atgtatctag tctgggttaga cttcggctcg acaagggatg 720
cggcatttta catcaataat gctgcgacaa caatgttcat tgcttgacag tagccaatct 780
cagcgttcgt ccaactgtag gcagtcaaga ctcttcgaag acgacctatg ccttcctcgc 840
tctggaagcc cgcatactcg ggtaagctgc gattcaagtc tttctctatc tcgtcgatcg 900
ccaacgactc ctggccttcg aatttcgcta aagtctgctc gtaaagtctt ggcgaccgca 960
gccgcagggt cagtgaaccg gagggcacct cccagatctc gccccgaagc cggttgggga 1020
gaccaacgcg tatgagttta tggaaggtag gttgccgat taacgtagca ttgcggccat 1080
tttctacaat cttagtctat gcccagatg acacaaaagg acgctacct cggaaatatt 1140
ctccccagag cctcatcttg ctccgatccc tgagtttgcg ggcatcaccg ggatagcgaa 1200
acagcattcc cagtccggca tccgggggtg gcctcgcttc agggcatca gctgactggg 1260
cctttgactt ggcgcccgac aggagatact cggaatagca gtcatttacc accaaacgca 1320
ggttctcaat ctcttcata gattcgcgta agttcttctt caaaccatcg cagaatcggt 1380
cgcaggcctg cctgctcccg accagctcga tggtaaacct ctgggggtgt aatccaggcg 1440
cctgctgttt gccagcgt ccattccagg tggtaaggc tagagaaaaa atatggctct 1500

gactgttcaa ccgctccacc cggcgaatcg aacacagagg gattgtaaat ccattgccag 1560
acggccccggt accgttcgtc tggccagccc aatatgtcga agtggctaga gtggcagaag 1620
gaaggaagct ggtgggctgt gtcgagaagc agagaaatcg ttcgctcaga tgcagtctac 1680
ccgcatatcg attgccaccg cggtcgatgt tcttcgattg ggcgccgga gcagaagacg 1740
atgtgtgcga tacagggagt atgagctcag ctgtaatttc ttgcaacgga ttttgcgagt 1800
caggaagtcg gaattgctgg cggaagaggg atgatttcga agggtttcgg tcggaggatg 1860
aggtgaggtt tgggatggtg aagttggccg ggtcaatgaa ggactgagct ttctgaacca 1920
gcgacgtcca ctgcatcatc ttagcaggag tatggatacg gcgttggccg gtcagtagag 1980
agaacgcagg acatgcaagt aaactcagga tcgccgtaca aatgacgatc gtcatttttt 2040
t 2041

<210> 2416
<211> 1038
<212> DNA
<213> *Aspergillus nidulans*
<400> 2416

agatcatgca ttcgttgagt cattgatctg tgccctgtgag gcagcatcat tgtagcaaaa 60
accagcaatc agtcgctcca ggtccatcag tctataaggc ttcgtcatgt aacccttcat 120
gccgactttg gtggcgcgat taagcgctc atctgtaacg tctgcgctga cggcgagaac 180
agtgggtggt tgcgataggg gaagtccggg acgatgcaac tgtgattgag atggaatcgg 240
attctggtaa cgctcgttga tcatctcgaa tatctttgat gtggcttcgt acccgccat 300
ttcgggcac caaagatcca ttagtatgac atccactggc tttgctctct tctgtcggtg 360
cgggtggccc ggcacgagaa attcatccgc cgtgggtctgg caatttaacg gcttttgctt 420
ttgtgcagcg tcatgctcag aattctgcgc gtcgagaata ttctgcatgg tgcgcacagc 480
ctctttcccg ttgccggctt cataaatttc ttggtagccg agtcttttca acatatgaac 540
cagaaccgcg cgattgatct tattgtcttc tgctaccagg aaggtaagag gatgtctttc 600
cccaggcttg acatctaaat tctgcccttt cgcgagggtt gttttgggtg ccgaacgggc 660
ggggatcggt gtggaagact catctgtaag agtcgacggt ggctcttggg taggtgtcgg 720
tgtaggtggt agcacgggta tcagtggcga taataaagta gtgtctggag gtgtattgct 780

agccctgctg agtctcgatg ggtcattagt ctttgggtggg gttaactgca ttgataaagc 840
 cactggggcga gcggcttcgg gtgcgggtcac gggaacccta atctcgaatt ctgagccacg 900
 gtcaggccca gacgtcgacg agcgaacgca aactaggtca ccgcccattc tccttgctaa 960
 gccctttgct acaagcagcc ctaatcctag cccgtccttg cttcgggtaa ttgacgcatt 1020
 ttcccgggca aacggttt 1038

<210> 2417
 <211> 8917
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2417

agtgatacgg cgtgtaaagc gacctacggt tgtataggca agatgagagc ccaacttgaa 60
 tttaatcgaa cgccagcttc aaagccagtgt gtgagttaga tatttaagcg tgtaatagct 120
 gtgggaatga caagaaagag ggaattggac atccgagcca gtacggggtt caagaggatg 180
 gaagggggcga ggatttaaaa ggtggcactt acagaatagc ctgagatcat ggtcaattag 240
 gggccttgat agggaggaaa ccagcctttc atccccgaga atgtggcggtt tggggaagggt 300
 tgacggccta catgaatgcg cttgtctgga gtagagctaa attaagtatc cgcaacgcta 360
 tgggtatattt ccgatgtgca tgcattcatgt gactccagtc cgaatagaac tccagtacac 420
 tgacttggga gagagggtgt cgcaattctg gttcaggctg tttaggggaag ggatcaagggt 480
 acccctagca tgtaaggtag atggacgaag tccacaaaaa gtggcgggca aatgagtagg 540
 caaaacattc gagcttgcag ttactcttgt gcctactagc tgattagggtc tgaaacttat 600
 tgataattca tgcaagggga ctttgaatat cgacctgtga tactggacaa taatgcagcc 660
 tccaataaag acaggataat acaaagcagt tttcaattgt tccttatatt gatgccttat 720
 tcagaacatg gttccagttt cctaggtact tccagggtta ttaaacataa caaatccaag 780
 ttgttcctcc aatattaaga acgctttcat acagggtatc tcaagacaac gttaagtgtg 840
 aagcgcggca catccaagtt catccttcac gatgagctct ccatccattc tttgagcatt 900
 agcttacagc caactgctgc acatacaata aaaaaaaaaa gctgctcaat agttgcaaag 960
 gagccccctgc ttttgcattg cctcctttgc tgccgctttc ttcttttoga taagatagtg 1020
 catcttcttc tcttcctcag acggaaagag gacgacgggc gcctgaattc tcctaggcat 1080

caccttgtct tcaatagcca tccagttcag gccagctacg cccggtctat tccctcagctt 1140
caccatattg caccaattct ctggcgtgat gcgctggaat gtcttcagaa caagagcaac 1200
cgtcttccag cccatgatac gctccgccgg cagaagcagc tcaagatgct gctcgaacca 1260
attgcaggaa tagaagtcatt tgtacagtct actctcagct cggttcgggtg agaattccttg 1320
gtattttctcc ttgtacgtca tccgaccctt acccgtcgcga gtgcagaacg aaggctgcat 1380
tcgaaaagac agaaggagtg aatcatcaga caggccctgc aagttcacga aatctatcat 1440
ctttgacttg agaagaaacg caatcgagta ggaggcttta gcgacggtag ggtccccgat 1500
cgtctctcgc agggtcaggc cgtttccaat aaggtcgaac acaacatcga gttgcgcgcc 1560
cacttggtca agtcgacggg actcttcagg ctttgagccc ctgatgacga gctcaagctt 1620
tggaatggc ttttttgggc gtggatgaca gaggcatttg gggtcgtcgc tgtgttgag 1680
cgcttcgtc agtgtccggg ttaggtttg tggagctggg gcctcaccac aacatcttgc 1740
gaactctatt ccgaacggtt caataattgc accttcaact gcaactagta gaagctctcc 1800
tgcagcttcg aaagagcttg agaggagaa gctgaatcaa aatgaccctt tgctgtggtg 1860
aatggctggc tttcgcacat tcacttgagc aagtttcaac atcagaacat actcaactat 1920
accctcgaga gcctccttgt cagtttgaac actactttct catgtgttat gcctaattcc 1980
tgatgtagtc aacaccgggc tatagagagc ttgagcaatg aacgtttcgt gagcttctat 2040
gtctacgaac atagattcaa tctctcggaa caaatagcct gacgtaagaa gatgggcctt 2100
tgactacctg gatgactcta attaggagac tctgcatttt tatgggttgg tttcctggaa 2160
tctactcctg cactggacca taaatagagc acacaagcta cttactttcc accatcacc 2220
ttttcacggc ccttggttat gaacagtga actcaggtgc atactacta gctatttgtg 2280
cacattgcgt gtacttattt ctcaattgtt tactgctggg ggatgtcgta ggattatctt 2340
ttgtcttcag atactgtaac gtggattctg ctgtgttagg atggggaaga ttcaaattgat 2400
aactgacaat ataccctaca gaactgctgg ctgccactag tggttatctac ttcagaggca 2460
ggttccttgg gttaacgggc agcctagtgc aacatgtgtc ttgtataagg atcggtagcc 2520
tgggaccctt aaatagtcta tatcagtaac cagcatacca gaacaaccta ctacctctgt 2580
ctcgagacac aagataaaca atccatgata cgcttaggag tctaaatgca cacacatagc 2640
ctggaccttc agcccttagc cttttatttt atgcagacta tagtggttctt tttgatattg 2700

aagataagtt gtggtctggt tatatccttg attatataat cacaccgaag cgggttgacc 2760
taactcaact ctcaatctat cgcgactcga cattcacaag ctttgccttg ccgccgattc 2820
cccgatcatct cttttttgcc gcgccccttt caacgaaaag gaatttgctt tctcatttgg 2880
cataatgtct ggagaaatgg aaatcgaccc tccggtctcg caagagcaag ccgagccgca 2940
gacaagcaac agtggcaccg atgctcgaac acacgacggc gctgttgccg tgcgcagtat 3000
cgaaggatgg attataatag cgacgaacat tcacgaagaa gcttccgaag aagacgtgac 3060
ggatctcttt gcggagtatg gcgagatcaa gaacttcagc ctaaaccctg accgccgaac 3120
gggttacgtg aaggtagact tatgcaaccc tctgtttctg aagcttttag cattttgggt 3180
tggttctgcc cgggtattaa tatttctctt gtatagggat atgcattgat tgaatattcg 3240
acgctaccag aagcagctga agctatcaag gaattgaacg gcaccaagtt gctcgatcag 3300
acaattgaag tcgactacgc atttgtccgg ccaccgccat ccaacaaagg gaagtccggt 3360
ggaaggggcg gtcgtggggg gagaaaccgc agcaggagcc gtgaccgaag ccgcagcccc 3420
ggagctgaga acgagagga ttaagatacc atatatgttt ttttctattg tcgctctgga 3480
atgaactcgc cctgctgtcc ttttcgcatg tcaactatcag caaatgaggc atggaacact 3540
ggtaggcgtt cagtacgata cagaggctct accgggaaca agcgatcatg gccggcagtg 3600
tcccttagct cccttgaaca ccatcgatat tccaactcgg aacgatgctc gggattacct 3660
gccggcgctc ttttttatga ttggtgtggt atggacaacc cgacagaatc cttcactgct 3720
accgctgaca cagaactaga cgccaatatc tcaatatcgc cagatatcaa atcgtgcaca 3780
gattacaact attagttcac tagaggattc cgcgtgatat tctcgacaat acaaatgtcg 3840
tgtgaccagg aacatggctc tcactttcca aaccccgcac tctgcatata aactctatac 3900
cataaactct gtagtgcac cgaatgaact ggtgattggt ctacatttga tgcgtgtcat 3960
ggatgcacta cagcgctgc gagcgaataa ggcaacgtac tggaataccc caatatttgc 4020
ggcgcacatg ggggactggg ggagctcccg cgtgatgtta tcgccatctg ccaagaatag 4080
tggttgtaaa gtgtagacaa tagagcgaac aggtctcgac gtctgaaatt gaacatggat 4140
ttaggtagaa tacagcctat aaggatcaatg aacatgcacc gtgcgtcgta tcaggcggag 4200
catttcctct gacgtcgggg aaggacggg gcgaccgtct ccccgcttct agcatttcga 4260
tcctgcccac ctcaccaga cacttgaatg cacgacggtc ccaggggaat aactcagtt 4320

atgtgagatt cccctgagct caccattgga cggggttcct tctccatccc attacttatt 4380
 atatccttta ccgaaccttt ttaagtcctt tcttatcgga ctaaggttct ctgacccctg 4440
 ctgacgacat tggctcttct cccagttgc aggtcagatt tggggagcaa agtcaccaca 4500
 caatgccgtc tttactcctt acgctatgga gcgctctgtc gctaggttgt ctgctcgagg 4560
 gatccgcgcg cgtgctcgta caatacgac agccgcagac ccaggtctac cagtaccagg 4620
 acaaagacac gttgcaacag ccgcttgcca cgaataaata caaggagact ctacgcgac 4680
 tgatagacgc cctcgatgtc atgcaggaca gctacttctt cctatacgag ggcacttggc 4740
 cgaccggcaa tgattggact agggccgtcc atggaacgca cgtgtcagct actctagctg 4800
 cgttgaccgc atatacgac gacaagctac ttggggtcct cttgagcaac agaggtgaaa 4860
 acagtgatga acgtgggaag gatgacggag acgaagcaga agatgaagga gatgaaggag 4920
 atgaaggaga tgaaggagat gaaggagatg aaggagacga cccgaagaa gacgaagaag 4980
 acgaagacga aggagataaa ggagataaag gagacgactc cgaagaagat gcacaggaca 5040
 atatcattga gaactcccta gctctcgaga atcttgtcag ccatttcttc gggcaagtca 5100
 cgacgtacta ctttgagaaa aacgcactcg gcctcaggga tcaggcttac gacgatatgt 5160
 tgtgggttgt gctggggtgg ttagagaata tcaagtttca gaggctgcat tctgatctgc 5220
 attacgatac ggagagctcg tccaaaactg gtgggagacc gtggcatggg acacagtctc 5280
 agactccggc cgcgcacatc gcacggatat tctacgagct tgcgtcggaa ggttgggata 5340
 cgatttgttg tggaggcggc atgatctgga acccgcatct gggcgcgtat aaaaatgcca 5400
 ttacgaatga gttatatata tcgtcgagta ttgggatgta cttttacttc cctggcgacc 5460
 agattgacgc cccgtttgct ggtgccgaag agtcagagga cggctctgct catgatcccg 5520
 cctaccttaa aacggcgcag aaggcgta ggtggcttaa gaactcgaac atgacaggga 5580
 tctatgacct gtatgccgac gggttccatg ttcgcgggta ccggggtcct aatcatccag 5640
 gaacacgcaa gtgcgacgtg ctcaacacca tggatatac ctacaaccag ggcgtgatcc 5700
 tcagcggact ccgtggcctc tggctagcta ccggttccca agaataccta gccgacggac 5760
 acgagcttgt ccagaatgtt cagcgggcaa ctgggtggcc gaatatctac gaccaacact 5820
 ggaaaggcct aggtcgcgca ggaattatgg aagatgcatg cgattccaat ggtgactgct 5880
 cccaagacgg ccagaccttt aaaggaatat tctggcacca ctttgccgag ttctgccgac 5940

cattacgtcc acaagaggag cgcttcctcc ggaccagtc gtaccaagac tcgagcttca 6000
aagacaccta cgattggcat caagagctat gcagcacgta ccgcccttgg atagagcaca 6060
acgccgaggc agcactcgtc acaaggaacg aagagggcaa attcggcatg tgggtggggga 6120
gacgataccg cgtgattgac gaatctgcct ctaccagcga tacgtctctg ccggatggtg 6180
cagttgacta ccgcaaccat ccagaatcaa tgccgccgtc ctggtatgcg aacgagacga 6240
acccgattgc ctcgaaggcg gcagcgggcg ttgaggataa tgggccggaa tacaatgac 6300
gtggcagggg gcggacggtg gaaacacagt cgggggggtg agcggtgctc agggctttat 6360
accagtggaa gatggcggag tctttggcga gtgatgtatg acagctgcaa cttcttgtag 6420
ccacatggta ctcgaaactg gcagtttgtg cgcaagtgtg cagagtacta ctattattga 6480
tattgtttaa accaatatac ctagagaggt atccttaacc atcagtctat gactacacca 6540
gctgcactcc acaagctagt caacacagac actgccgttc ccgctcgcaa attcccta 6600
gattaggtgc ggacgccatt acaataaatt cggctgccga ggtggattag ataccagac 6660
agacacatat attatcctta ccaagtaccg gcgcacgga ccacggcact actacagtag 6720
cgctaattct cacatactat taccagggcc gtatattagc ctcatcgaa tcctgaattt 6780
tcctctctc gttgggccgg aattttcgtc caagcaatcc gccagctgg ttggttgtct 6840
tcgggcgac cttcgaccat atgctaggaa gaactggggt tagttataat aatgcggtct 6900
ttatgggggg gggggggggg gaactgcaga caggatatgt ggatccttgt cgttactccc 6960
tagactagta atacggagta actgtgctac tggatatgagt gtgctgtacg agggactggg 7020
ctgatttga gtatatgaga actcgaagca tgggcaaaca tgggctacaa acccatgacc 7080
atcccagtct tagatattcc gcgtgatcgt ttagacccat cacgaacgt gcgggttggg 7140
gacgcgtata ccttgaaatt tcgtggcagt ttttaggtag accatagact ctgtatatat 7200
ataaagtgga tggcgtaggg cgagcattaa atgtaacagg ataggataag acatccttac 7260
gagaggaaca caggtcacia ctacgatcaa tcggtgttgc actctttatt ggttcaatat 7320
ggaggtcctc ggactgtatg ggagacgcct ccaatcatcc agtgtgggtg cgtggcctgt 7380
cagccgtcgc actgacattg ccatgccatg tcaatcacgt tcacggggcc acagcataca 7440
gggtaatagc gccagcaact ctgcagactg gtggtcagac tgagaatgca gacaaacaat 7500
cagttcaatt actgaatcac tcagtcactc agtcgctcag tgagtctacc tcggcaccaa 7560

ctgacatcag cgacagctct tgtgctactc tgtacatgg ggcgaccgct aatccacggt 7620
 tagtactcca taaaacaaca ccaagcattg cgggtagcga ctcgaggtcc ctcgagtcgg 7680
 cttgttggtt gatcggtggt ggagggacca ggaaagggcg actgcatcta tcgcatccgg 7740
 cttgggttcc gcaaggtacg cagccgaggc gatttgacag tgattttgat agtggactat 7800
 tctgacactt tgtcaggtct atcggtacct gacgacctg cgaaggctca ttcagcccac 7860
 gaaggtctag catggcatct gctagtggag aatcaggatg agggcgagct agaagacggg 7920
 agaaggaaaa ggagaatgat gtgaatccca cgctagaact ctcgagcttc cttgggtggg 7980
 tgggaatcga gcttgtaagg gccaatgata taagcctttt aagatgatat cgcttcgcgc 8040
 gtcttagata tcttttgatt gcttgttcat tgtcagtga ctttgatcaa agatcagggg 8100
 tcattgtcta ggcggttttg ctttgtcttg tgctttttca cctgtgtgat gacggagtat 8160
 ttcacccgca gggtccgtac tgttaccttg ataattcact aggatgatgg gttggatcga 8220
 aggggatgtc tagtaaaagc gttgacggtc gccacttgcc cacagctagg acacaatatc 8280
 gtagacacct gcttcttggt tttgggggta catcccgacc atgctgtaga tgacattata 8340
 tgtactcaag agtatactac tcggtcgatc aagataagaa ccaagaagct gggcggtaaa 8400
 actgaagagg aacaaagaaa ccatatcgcg cacagggagg ttgtggagcc ctcccttgagc 8460
 gggtccaagg caatatcaca gtccctgagct gggtatctgt ggggttcgct gaatgcggcg 8520
 tcttgtgact cagtgtttgt agtaatgtag tggatgtact tgggtgaatta accttgtagg 8580
 tgtatactta gacgtaggta gtgtaggctg agtaggctga gaggttgagt agttgagtag 8640
 attgagtga tataagatat aaagatcgag attcgaccga aactcggtcg tttcacaaga 8700
 tgcagactga ttaatgatta ttattgataa tatgcgcctg ctccagcctc cagctcaagc 8760
 tgagatagag tactgccgcg ctccgagagc tccgtcgcac acatttcatt ggacggtcag 8820
 ccttatgagc actgtatgca tggaagtcac ggacagttgg tcggacatgg gctgaagatt 8880
 gaacatgctt gcgatccaaa ctctccgctt tgtctgt 8917

<210> 2418
 <211> 5608
 <212> DNA
 <213> *Aspergillus nidulans*

 <223> unsure at all n locations
 <400> 2418

gctcgccgag ctccgctatc tctgtccaat gaccatggat gagcttgtct ggtcttcttc 60
aacaacttgt tctggctttg ctgccagaat actcgattat acgctcgata atccccgagc 120
tatcgttcgc tggctgccgt cggcaaactt gtcttcaggg tagccatcgc cggtgctgat 180
cgttcttcta tatctgacag gcttgaagat ggcttgcgg gactcaggag gctcatgcct 240
caaatgccga acaaggaagg tgcgctgtga tcgagctttg ccgcaatgct ctcaagtcaa 300
gcagaggtct ctggactgct tctttcctga agcccatcca cgcctgcttt ggctccctgt 360
cagaacacag gtggatttca gtttggatca ggagcaaatt gagctggata tgcattgttag 420
gcgacaacct ttgtttaaag gtctgttgat cactctgtgg ttgaagaagg ctcatcagat 480
cgtggactaa taatttgctc aataggaaaa cagcaagctc gatatgctgc cgatttgctt 540
tcctaakat caggtcatca atcagagcta ctttgaaca gcttgactat tcagcggagg 600
gaatagatga tggaatgagc acctccagcg gacctttcca cgccttccgc tgtgaacgca 660
ccacgggcaa atcgaccctg tccacaacca catccccgaa tttccaggg cttgagctgt 720
ggcggctgtt gtcagataac ttgggtgacg cactgaacga agaggacata attaccgcgc 780
cttggctgaa agaactttgc ttcccgagcg agctgctcga aatcaatcaa caaccagagg 840
aagcctatcc tcctcttcag ctgtctcagc aagagcagta cctgccagag tcatcgatat 900
ccgggacact tttcacatca ggccatcagt catatcccca cctgacctcg aagagtttgc 960
aatgtctact gcgaagctct tgctcgatca ctaccagaat attacggcaa cgctctatac 1020
accagcctca gtcgagtcca aaacaccttg ggaagtctgt tatgtgccga atgttctaag 1080
cactctcggc gaaattgctc ttaccggcac tagcagcgac gccaaagcat cattattgtt 1140
cgccgtcctc gctaatagtg cgtttagatt ggacattctc ggttatectt gtcgccctcg 1200
agccaaagac tggcgctacg ccacgtatcc gctgggctac caaagaaaga gaagtacaag 1260
aatatactta tgctcttatt aagtatggta cgatatgtgc aagaacaaac tcgaaacgcg 1320
tattggetca cagactgaca ctgctgaacc agactgtcag cggagagatg aaaaatgcag 1380
cgcattacct gcgcgatatt aacagattat cgctctttat gggatcccca aagcgcagaa 1440
gtcgcgcaaa atccagatgt tgcacagtat atatgtctac ctgcgagtct taacagaagg 1500
tccccaggtt cataaaacaa gctccgtca tgagacatgt gagaactacc aatccggcgc 1560
agattcttgg tcaagttcaa gtcataaaac gtgggggtata ctgctacagg agctattcag 1620

cacatttgat acaatgaacc tggacattat gcaatgtttg gcaccgcaa agtccacttt 1680
 cgaagagata tattcaatac cggattcggt gtcaaattaa tactggagac gactcaactg 1740
 gccaaagaag tagagcaact ttgccaccga agagcgaaga aaacaaacta cgacgaattt 1800
 gcggaaaggg tcaaagagca tgaaaataaa atttgcaat gggaccaatt ctataaggca 1860
 accacctatc cagcagaccc cattggcact ccaccattga aggaacgctt ccctaattcat 1920
 ctacaagng ctgtatacac tngctttgat cattttattt ctaaccgctc tgtaggggac 1980
 gtcaaccgtc ataacattgt aaccaatatg ttaacaaac tatataccac ctaacggagt 2040
 atgacaagca taaaaaaagg cacaagatc ggtcctcaga catatgttgg cctgcaatca 2100
 tcgcaggctg cgaagccacg acacctcgat tcagacagca gatcaccgac tgactagaaa 2160
 agtccaccaa ctcgagtggc atactcatgt tcagagtggc tctcaaagcc atccaaaagg 2220
 ttggggccgt cgagcgaccc caggcaacca gaatatttcc tggagtgtag tccctgggaga 2280
 gttgagtgc atgagagtct tggtccttag ttagaaactg ggaattgaca acacgttaca 2340
 aggccctata accgtcatga gaatcgccgc tctcaaactg caagtagacc tggaattcag 2400
 catgcaaact ctctagtcg aattcagtcg gcatgttgag caacaagtcg gtgtgtactc 2460
 acagcttcgc tggatatttc gaatgtgaac ctagcgaatt cgtcgagat gtagaccttc 2520
 tcacggcctg cagcagcggc agcgtctgcc gcgagttgaa ttgacagct tttccacatc 2580
 aacaaaaaca gatacgcggc ctctcgacg gtgctccca cagtaagcag tccatggttc 2640
 ttaagaatca tgcctatccc ttctttacca agagcacttg ctaaagctgc tgattcgtcc 2700
 tcttctagca cgacaccacc aaattcttta tacacactct gagccttgac gtagaatatt 2760
 gcaacatctt gattcagcat ttcaaggggc tgcacaaagg tagaccacgc cttgccgtag 2820
 gtggaatgaa agtgacttgc agcattaacg tccggctgag atttatggag cgcagaatga 2880
 atcagaaatc cagctgcgtt ggcaggccgt gtccgttttc ctccaacggc gatgcccgtc 2940
 tcgtcgacta gaattatata agacggcttg atgataccga aatgaaggcc gagactagac 3000
 attaagatgg gctactcttg ccaactgaag tcagaacgcg aattgtgggc taccatacgg 3060
 gttagtccaa aacctgtcag ggaaccctgg gtccgcagc gagatatgac cactcattcc 3120
 ttcgacaaag ccatgtctcg caaataccct gaattctccg gccatgtgat tcaacatgta 3180
 ttgtctctgc agctcgggtg cgggtggacct gggaattcca ggaggggagt gccctgagaa 3240

atcttctcca aagctgtccc ttttcgcttt tgctcgccat tctgtgcgag gatttgggtga 3300
tcaattgaag gcacaattat gcgtgcttgc aagtattctt gaactcaagc tcacctgaat 3360
gtcgcttttt agctagagag atatacacga atgttgttga acgccaggcg aaagaagcag 3420
gtctctgtcc acctagcaca cctcgggtgtt gccttctcga tatagaacaa gggaggcggc 3480
tctgaatcag cagacctatc acttgtctcg gtaggccgtt tcgatagtcc ttctcgtgga 3540
gaccccatct ccggaatgat aagacattcc acggcagctc tatcttatgc ccatccagcg 3600
ttccatcacc cggaagacat tcttatcact aaaagtagta tctatctggg atttcgcaga 3660
ttatataaca ttattcggca atggtcagtt cttgactatg ggtgcaagcc ataattcato 3720
agtgaaccgt ctgccttgg atcgaccatt ctcaagtctt ttcattggca tagatttcca 3780
taatgaatga cgagaagaag tcattgggcc cttccgaaag caatacagac ttggagccga 3840
catatagcct tgggtgtggc gttgtcaaga accatggaga tctacaccga tctttcacc 3900
ctagacagat ccatgttagt atcaccgatc ctggaaccaa ggaagcccg cttacattgac 3960
aggctcatcg gctgggttcc aacgtcgaa gtggcttgtg tattggtaca ggcaaggcct 4020
ttgctaattg agggccggca aatatgatat tgccatactc tactgtctgc atcgctatct 4080
gggctcatct acaaacattt agcggaaatg accatcgtct ctccaacttc gggaagctac 4140
atcgactacg ctgaccgatg ggtcgaccog gctctggctt ttgggtgccg tctagctgag 4200
tggttggtta tattcatcca accctattcc acaaagagct aatagttgga tctcaggttg 4260
gacggccgtc ttgcgcatcg aggctacatt ctttgccttt ctggtagact actggacaaa 4320
agacgttata ccagaagctg ctttacgtat gtctttcccc gcacctatat gtgtaggtaa 4380
tctcacaccg gtctagtatc catcttcac gtgatatgtc tagcgggtatt ctttctgcca 4440
aacacctact tcgcctggct tcattatttt gggcccctgg taaaagtatt tcttttcgtt 4500
ttcttcggta taatctctct gccattagt ggggggtgca gggctaactg gctcgggtcaa 4560
ggatggcagc acttggaagg acctcccagc attcaaaatg gcttcgaagt atgcaccgt 4620
atataaactc catttcagtg gaccggaaac ttagttattg cggtttaggg ctttgctagt 4680
gcagctcttc ttgcgctctg ggccgtcgg gatcatatct atattggcgt attgggtgga 4740
ggagcacggt cgccgcgcta ttcattggcac atgcggccaa tgccggttccc tggcgcgtga 4800
ctgtctttta tatgggtctg attacctttg tctctgtgat tgtgccatta tcagaagcca 4860

gactgctcgg tggctctggc tcgcagcctc tccattcgtg atcgccatcg acaatgccgg 4920
 catcaagggtg gctccggacc tggtaacgc ctgcatgac attcgatcg tggtcattgc 4980
 gctagagtgt atcttcttga cttctcgcat gttgcgaaca atggccctac aaaagctcat 5040
 accatcggtc atcgccgagg tcgataaaag ggccgacccc gctgggcgct catgattact 5100
 ggcgtaggtg gagttgtttt gacctacatc agcctaagcg gtaggtagtc gagctcacag 5160
 caataaaacg gacagtgcga atctagagca gggaaggga ccgagttgct caactgattt 5220
 atcgctatta ctagtgcac cttcttcac aactttgcc tctagctct tacctccttc 5280
 cgcttccg cagccgtcaa ggcacagaaa ggggaccttc ttacagaga gctacagctg 5340
 gaaatcccct ctttggccac tgactccgat cattgttctc gtgctctccg cctactcct 5400
 tgtcagccta ctatacatca gtataaaacc agtggtatac ctctttctgc tgatatcttt 5460
 tctttctaag gtacatacac accaattatg cttcacagga tggcaccggt ttcacggagt 5520
 acaatttctt ctcaaaccatc cttggtatcc tggtcatact gataccgaca gcgctgtata 5580
 ggggttatcat gcggaccaa tgggggga 5608

<210> 2419
 <211> 5058
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2419

cgtttacctt catttcaacg cgatgaattg acccagcccg ggcgatgcaa cacctcaact 60
 cgacaaagag actgctgggc tcagcgattc tgatcaatca gccacttttc tttttcctaa 120
 atggattcca ctgtaatttc tttttctctg ctttgttggg ttgcgatgct aacgatcgaa 180
 aaatttcctt tcggaccgag gaacctgcat gggatattat ctgaccacaa aacgagttaa 240
 catacaggta gacaagacca ttgtgagcag attacgagtc ttccgttctt tcatcttttc 300
 gtttttccaa ttttcctctt tgcactacc tcaatttatg gaatggaggc tctagaagtt 360
 tgaactcagg aaagctgggc agcgactct atgcagaagg aagcaataaa gctgctcaac 420
 agcagtggag gatgcttggg ccgatcaat cattgtaagg gattggcatg gtatcgggtc 480
 agttggaaat gtctttcaaa taatgaataa tgaaataatg gattattgac ttacctctt 540
 tgctccttac tctgtcagtt caaaaaactc ttaatcaggg cttaaagcta gaaatccatg 600

agaccgcgta atcgagatag caaacccgct gcgatgagaa tgcccagatc ctataccggg 660
 tgtttgtgcc ccttttccag ctccagcccg tggtcgcttc ttcggtgttcg gcttctttgt 720
 tgtcatttct tcgacactcc gccttggcctt ggttccttcc ctcttccacac ttctctcctt 780
 tccctttcaa ctccatccta attcccacaa actcgctact tctccctgtc cttcgttcaa 840
 tgaagattcc atgctctgcg aattgatgta attactatcg acattggaag atcagaggat 900
 gcacccaacg tgggtggatcc gcaacgacgc catcctgcg ctcgagagtca aggatcgacc 960
 gagcgtacat tagactgccg ttttaagtct cctcccaaga atatagccca gactcgggtc 1020
 gtcatctcaa cctataagcg ccttcttccc ttgctgacag tttctacgtc cgcactagct 1080
 tgctgttagc cgagttcggt cctcgctagt tccattggtc tcttcggcac gttccgtgac 1140
 cccaatatg atgttccata gtgcgggtct agcttgaatt ccaacggata atgacacttc 1200
 acaaatgggg gaggcgggtt gaaacatgca cgttcttctg ttatgacgct atccaatgga 1260
 gagacagctt cgacgatgtc gatgaacaac ctccggctta ggtatagctg tctgatcccc 1320
 accgcttcag cattttattg attactactc cgtacgcgga tataccttcc acagcctgta 1380
 cctggttggg catctcacc cctgtctcct gatttcccg ccaagctccc ctccaatgca 1440
 ccctgaatcc tcaaagcagc tatcgccgag atttcgattc ttccaactct attaggaaac 1500
 gaggcttcgg ccggagttta cgctttgtcc gctgagtcac cgaggcggcg cggcaaccca 1560
 gtcgatatgc cgtagggcatt gggcaaatta ctcgtttata gtcattttgc caaccctgaa 1620
 tctccacact agcacggcca ctaagcatgc gtttctgcgc ttggtgggtc ttgccttgaa 1680
 cagttcacct ctaatctgat ctatcgagtc tacaccttgc gcgccatga cagttgtcac 1740
 agtcaaccag tcagcggcta acatttgtt actactagc aaaggagaga aaccctgac 1800
 gcagcatgct tctactaagt cagcccgtta tgcacgtcgt acaaggggac tgacaaagac 1860
 ccaggtggaa gaatcaggcg cgcgactcgc agcccgccga ctgtcaaagg agagcattgc 1920
 ttgatcaa at tggccaacag cgacacggca ctgccgttgg atgattttca aaccaaacc 1980
 aacccagga atcgtaacc tgctgtgtaa cggttcgac cagtcgctgt ccattccggt 2040
 acaccgaaag ttgattccaa cgccatgcct aaacaataac agagggccag tttcttacac 2100
 atcttctaca agtggccagg cccaagctga gtgatctgac ccctagcagt gccccacccc 2160
 tctactctct cctatctgcg aatcagattc agctctcact ccgacgcgac gagatactga 2220

cgcttgcgtc tcaagcggac gcagcctagg gggaggaagg atttagatcc cggaagaacc 2280
 catctttcaa agtgtcaagt tgtcgatccc ggtctaagac gccttaagat cgtcatgaag 2340
 gcccgaaccc cgagctgtct ggcctacgga agccgatgcy cgaagaccgg tcaatcacgt 2400
 gaaggccttt cattgtagcc tgccgtatcg cagtaagggg tcatctgccg cctcgtcttg 2460
 ctgtattttg aaattcagtt actgtattaa aatccttcgt attcatagtt atggggatcc 2520
 gagggaaatag caaaaatact tcgacggttc agttgtgatt cttcaaaagc tctctgcgag 2580
 attaggctac tttgtccgac aagtcgtgta tcctcagcct tctgttccac aaacggttat 2640
 tcccggacgc tgtgttgccg caacaatact ccgattaggc agggacggcg gggggcaaag 2700
 ctctccgcag aaccgggaca aaggacgacg acttcgcctt cctagagttt cagactgtca 2760
 cctcgtgtcg attgctcgac aatccacctc ccattagcg agaaattcga gcaggtaggc 2820
 tagctcttag gcgagccgtt gaagccgggt tctcaaagac acctgtgata gcctgcccac 2880
 cacatcttga gaccaagcca gaaagtcttc ccaaagaga tttgacaaac actgaccacg 2940
 catccaagct ccagagacac tttcatcatc ttccactcgc aagcagcagt agtctccccg 3000
 tcaaccaca cttccctact ctctctttct tcttcccaa gattttatgt ccataacatg 3060
 aaaccaacc caaccatctc agctcaactc tttcgcgagc ggctccttg acggtcccgg 3120
 agaaaatcag tctcaatcct tctccactct ggaaaccga atcgccagct tccggtcaag 3180
 cgccgccttc tctcctccg taggaaccat tcccatcgcc tgctcgactt gggaggatgt 3240
 ccaaagccca atcgacgccc acaccatgac tccgacacca aatatcgcg gcgtcttggg 3300
 cgagagggat ttgtaggagc tgtatataaa gttgctcaat cagtcagtcg aatcaataca 3360
 agatttcttt tttgcaaagt gcttgctcgt actgagacac gcaagagcga gaggcgaatc 3420
 ggaaattggg ggaaagtgcg ggagtcagct ggagcttgaa cagggcatac tgacttccag 3480
 agagacatct tgtatttgtt aatcaggctg cgtccgccag aaatcttgta gtccataggtt 3540
 ccagaaaaca gcccttgtag gggaatataa acctgaacgt acttcgtaat ccaggtgaaa 3600
 gcggcttagg tcgatgttcc ttaatcgttg gttgtactca atagtgcgg tctcctccgc 3660
 cttcttggtta gagcttgata caacatcca ttaccgactc atcctatgat tattatgatc 3720
 gctgtatatg ctatgtgact ggctagctta cataaatgta aaagggttgt atagaggata 3780
 tgtatatcaa tgctatcagc caaacaacct agcgtaccgc gtaaagaagg tacctaactc 3840

gatgtccaat ggacaagact gaactgggca taggttttat accgagacag cgcgacagga 3900
gtcatgatac tgagataaca atcatagcag tacaggggca tagcatacag agcgacaggaa 3960
acagagcagg acagtctcga gaagaggata agaattggaa ccatacattg taactaatag 4020
gagaaataga caaagaggta tatcgaagac ggtaagcagg gatcagttca tggcgtgcgt 4080
gggcacatca tggcaacggt agtaatcgtc aacatcaaca tatgctcgca cgctcactgt 4140
ttcgcttgct ggcatgatag gcaaatcgag ggtatatca acggaaagaa tcgccacaat 4200
tatttctttc cataagcacg gtcaatgtcc ttgtggtacc tgttgataat cttcttgct 4260
tggagctttt gagcggcgggt catgaagccc tgttggtatgt tagttacgtc ctgaaacaaa 4320
gcgagagaag aaaagacgta cgttctgagg agtccactcc tcacagaaa ggacaacacc 4380
gttgataatc tcaatgccct tgaggccgct agcacgaccg gcagtctgga gctgcttgag 4440
gacaatagac ttgagcttct cgttgtgcac gagggtttct acagagtcac cctcaatacc 4500
gttctcgctc gcaatcttct tcaaagcaat ttccactgga acaatgatgg caataggctt 4560
gtcctgggtc tcggctgcgt agacgcagat gttgccaacg ataggagaag atcggtagac 4620
ggactcgagc ttctcgagag caatgtactc gccattttgc gttttcacia ggtttttctt 4680
gcggtcgatg attttgaggt ggccattctt gtcaaattca ccgatatcac cggtcatgaa 4740
ccatcctccc tcggcatatg ctgccttggt ctctctctca ttcttgaaat agtgtgttga 4800
cacactgcct ccccgatcc agatctctcc ctgaggagga ttgttctttg tgaagtacc 4860
ggcatccgcg aagtcaacca gtttgacttc aatgcaggcg gggatttcac caagagcatt 4920
cgggttccac gctccagggt cattcaaggc gcccatggcc gaagtctcag tcagaccata 4980
gccgctaatc ataggagcaa agaccatgga caggaacttc tgcgtctcct tggacacagg 5040
accaccaggg gtcattcc 5058

<210> 2420
<211> 1863
<212> DNA
<213> Aspergillus nidulans
<400> 2420

tctgaaaagt gggttcagcg acatacgtaa cgaggaagca ggacaaacgc tataagcgca 60
acgaatatgg tgcagacacc ctagaaactg ttagtaggggt ctctaaaata ggcgataaga 120

ctctcgcata aatgataaaa gccagcgcc atccagccg acctaataac tcgtcaagat 180
tcgtggccaa cgacgcctgg atcgacccg acatcatcg gtcagcaggt tgagcaatgt 240
tatataaact catacgaga gctagctctt ccagtaggta ccattggcta tgctgtctat 300
ttagcaactt tctacctgg ctcaagggct ggcttcaggc aaaccgacct gataatagt 360
tagtagcctg gccaaagtaac accttcgaaa aaccaaatga ggaagcggcg ccgtagacct 420
atctgataag ctaccgcgt tggctctgta caagagccca gtctacttac ctgcttctca 480
ttcgtcacgg ttgacaagca acaggtaaac acgttcgaga gaacctgggt cgttggtgag 540
atactggata taaattacat ccagcactt aactcgacg caggcaacca tatagaagga 600
ccgatatagg aaacaagaat gcaggacggg aagagcatga ccatataccc aatactatga 660
tccaggttaa cctgatttat tggacttcgc atggggacca tacttgaagt atgtcgtaaa 720
gtaacctaatt ccttgctat agagcttcaa gttgtcctgc atgccagaga catacgcggt 780
gctctgaatc agcgttagca taaagagaga aagaatggat ataagctagg cacacaacgt 840
acaatattga tttgatcgag atatttaaag acatagccca agaagccgat tgtcaggaat 900
ccgagatcga gtctccttag ctgaaggctt ctttagttag acttatagag aggagaatgc 960
gcttcattgt gcaaattctc tttctttcct ggcatcaatc gtgccattgc catcgctact 1020
agcattggaa tcgccgctga ccaaagccgt attcaccgtg ctgctggccg tcttgctccag 1080
aagccattg atggtatctg cagttgtttt tgtcgttctc atcgtgactc gattctgggg 1140
tgcaatcaaa gaaacgactg gtggtagatg cagctttttg tattggagaa cgcttagctt 1200
gttataagta ttgcgccatg gaatggcgtc agctacagcg tatacgggtg cttatcatgg 1260
tgcttataaa atcacacaca atctctgaat ggcagaggaa ctcaaaaagc tactcgtgct 1320
acttagcaga gcacgagtg attagcatta accagagttt ttctgagttc taccttctcc 1380
agagtattat cagtgggtcaa ggttaaatag tgcaatttat acaccttaat agtgcagttt 1440
ggctatttcc cctctcacga aatctatcca agagaaggcg tgatgcagct gatagccgtg 1500
gttggggtag gttggtaacc ctatctagaa cgtttctacg tcaacgtcca gtaagatccc 1560
aatttgctc attttagcca aggcttgata ttgtctaagt ctattagcta ggaagctatt 1620
ggaggaatat actactcttt agcacactta tcttacctgt catgattttt gtctcaactc 1680
tttatgctgg cccaaccgg cctctagacg ctgtgttgaa gagagtcac aagtaggcga 1740

tgcggtactt ctgtgccatt atctggcacg cttgttccag aaaaaaatg gcccgcgccc 1800
 attcaaaact gtaggaacgg gcagccgaac ttgagtcctt tggcaaattg atattatagt 1860
 ttg 1863

<210> 2421
 <211> 1564
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2421

aagggaaagg tggaagaaat caggtcctaa aagtacatgg gtatggactg taaacctaaa 60
 agccaaagag accccagcaa cagagccggg ttaaaggggg tttcaattca tgttggcaag 120
 ggagaggaca agcctgttag cttaggcggg tcaaaagccc caagccctta aaaaggattg 180
 gaggccggtg aagctagacc ataacggtgg aaatcggatc ccgggtcaag ggaggatgcc 240
 actggacctc caatagatgt cccatcaatc aaggggatcc agacacgccc tcaatagact 300
 ttgtacggtc ggcatggtgg cctgtccgca ggctggtgcc caggcaaagg cggcgctagt 360
 tgagtcggtg gacaaaatgc ggattttgaa cccttgggac ggaatgagcc aacagcacgg 420
 aactgatttg atggcgtgtc acacatcttg actgtaagat gtttgtctga cgctgacgtt 480
 gactgatctg tgacacctac ctaatgaagc atagatctgt gttcaaacgt tatttgagtt 540
 taagcaacga tatttatggt acatatggct gtccatggcc tcggttatcc gcccacaaagc 600
 ctgcccagaca acgatataag aaatctaagc caacaaatga gttattacaa taaaacttta 660
 agcgtcttca tgttttaggc agtatttttag ctgataaggg gacttaatat tcaattctag 720
 attatggtat acactcttat aactaatagc gtactaagat atagtaatat aatatatata 780
 taaagagtga gtatttttagc cacatacagt aacttcacct atccagatct ctttcaaacc 840
 aacgggctgc ccgcgcgggc ttaagcagc caatcatcta tctccaaggc ctttatggac 900
 catttcattg tccaacgcaa ctgaattcgg ggcggattgg ggcgggttca gcaagtctat 960
 cattgtggct gaaagcttcc tggtcacatt cgggtaccag tgattatatg taaagttggt 1020
 gccatggcta gattctgttg tctagaaagt gaagatgcgg tccccagtgg accgtttaag 1080
 cttgccaatg gatttaggtc tcagtaagtc cgatacatga attgaggctt ggtttgttgc 1140
 tagtacagaa taccggcttt ctgggcggta aacgtggaga taaggttgca ttatacaata 1200

aagaggcagt gatctatatg cgtgcttaac agggctcggtg gtacgcagta tagagacaaa 1260
 aaaagtttct cgaaccaaga attttcttga gttgttaatg gtgcaggata agtagatcac 1320
 accggctacc agggttgtaa tccttacttg cctgtttgag ttggcaaact ggccgctgat 1380
 aagtttttcc tgcaaatgaa aatgtacttg ggataattgg tccactttgc agggttccgc 1440
 tggtagatta aacacctttt tgaggagggtt aattcttcaa ctaccatcac ttatttagaa 1500
 ccgcttcgcc cttattgctt taacttttat tacctgggaa agggcaaaac agttttaacg 1560
 gccc 1564

<210> 2422
 <211> 712
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2422
 cgagcggcca ttcgttggtg tccgacacaa atccaaccac attcatgagt ttctggtttg 60
 caacggggaa ggtgaggagg tgtgcgtttg gcccgccgta catgtgttgg ttcagcgcga 120
 gggacttgcc gagtgcgag atggcgagcg gcatggggat cagggcccga taggcgattt 180
 tgtgggtgta atggggatat gagacgggat tgtctacgcc gaaaaggagc tggcgtagac 240
 gggacttttag cccgtcagtg ccaatcactg cccggtatgt tagagtcaat agaatatagg 300
 acgttgcgta gagggttggg gagaggggta gccctaatta gggctagacg gggggaagac 360
 caatgcatac caatatcagc ttcagcactc gaaccatcac tgaacatcat ctgcaatttc 420
 ctttcttcc ctttctcttg ctctagtaca ctatactcct ccaatcgctt tcccagcacg 480
 actacatcat cattcaagtg ttccagcaca cccctcagaa actcctgccg atgacagccc 540
 tcaaagcccc ttctcccagc atgcagccgg tacaccttct tgcccaccaa gtgcttgtcc 600
 tacttcgaca tcttcttggc gatgagtgtg cccatccaca aattgcatat agttgttttg 660
 ccgttcggga tcttcaccgt tggctgttcc aacgctagtc gcacactcct cc 712

<210> 2423
 <211> 1315
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2423

cttcggggta agagaaccac tcagggatgt gagcacccgt acggagacgg ttacggagtt 60
 cagttccgga gatgtcgagg gtcttggtgc ccgcaggaac ctcgtccttg ggcatgtact 120
 catcgggtgtc ggggaggtag gtgacttgct ggaattcaac gacctcgata ccgagctccg 180
 cgcggtactt ctcgaccgcg tgctgagcat cgtaggggcc gtagaactcc tgacccttgg 240
 agttcttacc aggaccggcg tggtcacggc caacaatgaa gtgggtggca ccgtggttct 300
 tacggatgat agcgtgccag acagcctcac ggggaccgcc catgcgcata gcaaggggca 360
 agagagcaag agccgccatt ccgttggggg agcggggaag aagggcctgg taggcacgga 420
 cacgggtgaa gtggtcaatg tcaccgggct tggtgagacc gacgacaggg tggataagga 480
 cattagcttg gcgggcgcga ccggcacgga cggtaattc acggtgagct ctgtgcatag 540
 ggttaattag gtctgttagc catgacatcc cagtctcgag tcaagtaacc agaacgaacc 600
 gtgtctggaa ggcaacaact cgggtccagc cgagcttgct gaagtgaata cggagttccg 660
 cgggggtgtc taaaatcgcg ttagatttat ctttcttgat ttatgcaggc tcctgttgtg 720
 ttctcaaacg tacagcggag gccgacataa tcgtagtggg taagcttggt gactgcctcg 780
 agctttccac cgatgtagta ctctcgacc ttggtgttca ggtacttgat ggcgggggtgc 840
 tctgggtcac cgccgaagac gagcttggcc tccttctccc tggaataagc aaagatgtta 900
 gaaattgcgc aatcctcggt tagataaatg ccacgtcctt ggcaaatccg cagcgcccg 960
 tagtcccgcc atccggaaga ccaagcgaac gcggagtacc aatgacgagg cagttgcccc 1020
 aggtcatgaa aacaactcac ttgtcagggc ggtagatgtc gtcaattgta agaatagcaa 1080
 ggttgcggtc gtcacggaag tcacgcaggg tgacacggga gccaggctta aggccggcct 1140
 gttcaatgac tgccttgga gcatccagag taatgggcat agagaagagg ttgccgtcgg 1200
 caagacgaga ctcggcgacg acgctagaaa acccccacca ttagcaaaat tggcctat 1260
 gcgaatatca ttcccgttat gcactat 1315

<210> 2424
 <211> 1101
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2424

ccccctgtgt ctggaattcc ctgtattcac tottaacgaac aagcctgttg cacacggcct 60

ccagtctatt ataacagtca gtgcccgtt taaaggggca cacatttggt tgcacgactt 120
 ttgagtagac ttcaacctgc gagttagggc ccttctacg atgtcttgcc ttgggcttgt 180
 agctcagctt taagatatcg gacggatact ctttcaggta gttactgtac ctgcatatga 240
 acctgcaagg atgcttttag gaacggaaag gtcgctacgc caccctgccc catatgtact 300
 tggactacac agtaatgggc gatcacgtgc aagatgcgga gaacccgctt caactccgca 360
 ggactgagct ggagggcaag tattaacatt ggaatcatcg agataaagca cgatggaccc 420
 ggaagccgcc agtccagttt cagaccaacc tccagttttc aactacattc tctcgtttct 480
 acttgtcggc gtggcctggg gtttcaccac acctttcatc cgtcgcgcgc ctgcggactt 540
 tcaagcgcgc caggagaagc agcaacagct tcagcagacc gaactccagc ctacaggagc 600
 acaatctcga gccacgatg acgacaatgc ggacgatagt gctactggga gcgacgagga 660
 tcaaccctta ccttcccaac cttccgatcg ctcaacaacg cggcagccgg cctggatgaa 720
 ccaatccaca tctctgtcct catggataag aacgaaagtc gtctctctat tttggacagt 780
 tgtcaatctt ttgcgcacgc cggcatactc cgtgccacta ataattaacc tgacaggag 840
 tgtctggttt tttctcctgg ttggaaagca tgggtgcgcc accctccgcg gaatatatca 900
 gtaagactga ggcagctaag agtctcgcag aactctcctt gactgtgccc ctacggaact 960
 ctagtgcatt catcatcacg gtctgggaag agtgggtcgt aggaacgacg gtcattgcgc 1020
 ggcagacatg gctagtgatg gcactgttcc acggttgaat tgcgatttgc gtgcagtcga 1080
 cctcgtagcg gtcaatctgt c 1101

<210> 2425
 <211> 1516
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2425

aagatcaaag caaggcatta cccatgacca taacggcgct aagacgagag aggtaatgac 60
 ctgggtgttt tcggatgtag gcagggtgga ctccgcttcc cctctcttct accatttctc 120
 tttcttcctt ccttcgtgaa cagtgggagt caaagaatat cagttttctt gctcaggctt 180
 tctgttctct agtattctcc gtgcttctta cctaaactgg cgtgcttttc gccctccaag 240
 aacacatggc tctcgtcgca aagttggcct acgggctctg cgtgctcggg aacctatctc 300

gaggcattct ggctactcct ctgatgagcc tgacgaacga ggaatataac caagctccgc 360
tcgctgaatc tcatgactcg ccggtagacg cccaagcga tgatgctgta ttcgttaact 420
cggatgcaga gtcgactcct ccgccttctt ggtggacctc aactcttatg gcacgacgac 480
ttctcgctct ctccacctcg ggcgtggcct caacaatatt ccccgaccac ttaccacctt 540
atagccgtac tccagacacc gttgccggcc actcggttaag tctgaaagaa tacttcgccg 600
actgtgacga agcactccct gccgggtctg gcaacggcgg cgacggcaat ccaaccttcc 660
ttgctctgca cgtcgcaacg actttccgca acaccgctgc tgggtccaac atctcgctat 720
cgatcgactg gtgggatcat ctttaaccaga caacgcccg ttttcctggc tcccgcctca 780
gcgcagcggg tcttccgcgg gccacgctgt tcgggtatat tgagcccttc gagacgccga 840
tcccatcgga aacggagaaa gcactgacgg actgctatgt cgctgctcac ccagattcga 900
aggtctggct acctgggcgg ctggggctgc cgcatcgag cttctgggcc aagatggctg 960
ttacgcaggt atactggatt gggggttttg gtggctctgca gcagattggg tggatagata 1020
tggatcagtg gaaaggcatt cgacgtaagg ggagtctgcc tggcgttgga gatggacggg 1080
gatgggagga cgtgaggctt ccaggggaga attagcggag tactccgcaa tggcctgata 1140
cacttccagg tgaagtttgt gcgaatggtg gcgggtggct tgaacagcgg ggattggcat 1200
atgctagcga ccaagaattt atttccactt gtctgtccgt atattatgat agacagttat 1260
agcaggaaat tccactgcac caggataacg agataaggcg tccaatggcc gtgggcgccg 1320
aatctcgat ctggaggtct cctatctgtg cttatctctc cttatctcca tgcagtggca 1380
tacaatactg gtctgtcctt cactggattt cccatggctt ccagccgcaa ttgactgttt 1440
gcctgttgct ggctcttcat cgagaaatac ccaagatgcg tttcggctgc tttcacctcc 1500
gcgttgagca gtccgg 1516

<210> 2426
<211> 5047
<212> DNA
<213> Aspergillus nidulans

<400> 2426
ctagcatgtt accagcgatg tctggaactg gtatgcaggg ctctctatca ttcctcacia 60
tctaattgcc atacaacagc attcagcaag acaatccatc ctgaggctga cgatacaaat 120

agcactgccc gcgagaactc ggagtgtaga agtcggaccg gcctattctt aatgatgaca 180
 cgtagcggtc gggcacgttt ataccaacag cagctaccgg ttcattgcagc tgacctttta 240
 agcttggtac tgccacactt atggcagtat acggtcacca ccttactttt gagtcccttat 300
 attcaagagt tgatcgctcg gcttagaact caatccctca gtctccgagt tgttcttcac 360
 gaccaagctc aaaaatatag ggtatatattga agtcggcctg gagccatgat ctggccgcct 420
 tcccatcaga ggcgaaggcc tgtattcaga aaaccttttc aagccttata ttgatatgca 480
 aatctgcaac tgactttctgt tcagaaacgg acattttttc atctttatcg gtcatagcat 540
 caagacctcc ctgatcatcg tgccgttcaa acacgtccgt cgtcgccatc cagctgctc 600
 acctgccttg tgcagggatc gtgaactatg atagagctga aattagaata aaccaggcgt 660
 atttttaaga aaagccaata aatgcagccc tccaccttga tttcatgata tcatcactgc 720
 tgtggcacia atcaggagcg ttgcatgaaa ttaagcaacc ccaccgttgc cgccaccggc 780
 tttagcctcg gatggatcat aaagagtgcc ttcaaattcc aaagtttccg tgtgatcggc 840
 catgccagta agatactgta gaagtacaga aagctgaacc ttcccgcaaa cgagagcaag 900
 ccacgcagcc aggataaaaa caagattggt gtcttgacgg tccgcatctg acgtagaagg 960
 ggatttgtca agggctacag gtggctgcta tttctttttc ttctccctcg aaccagagtt 1020
 gttgtgatcc gggttttggg aggtcctagg ccccgcatct tagaactgtc tagatagatg 1080
 cagatgactg cttcactttg ataggattct aagggctcga gtctcggaga gtacgccaga 1140
 acccaaaaaa ccaacacagt ctgccactgc cgacttgcat acgcaaagta aataggtaaa 1200
 caggctgact agtcggttgt ttactctggg agtctcgtga acgtcgctgt cagtcggctc 1260
 gccgtccagc ttccagcatc tagatcttga tcttgatctc cataattgat acatagcccc 1320
 gttccatggt ctttaaattc gcttgttttg caacggatcc gttgatggcg tggactccca 1380
 cgtcaatcct ggcagacca ggaccactag tatattattg cgtatcactg tattgtttgc 1440
 agaccgcaac cgtacactgt attattgagg tgctcggcct gattctcggg ggcgggtatc 1500
 gcccgagtct acctagggat gccgacattc ttccgtcagc cagaatctac ctgacagcca 1560
 tcgccaggaa cttgtccctt gatttctcag tgacgctctc agacacaata cctgtcactc 1620
 aggctcattc gggttctggg tgaaagaccg agcaccgtgc gtacttaatc caagagaatc 1680
 tgcaaatacg ctttccgggg taatccggcc tgtaagcaaa aaggcagagg gtgtgaaatt 1740

gaagtggtaa tgatcagttg agttcagtgc tcattggcgg atcagggcat ttcattgttt 1800
 catatgcaga ccttggacca gtcccgaac gtgggtggcg ggctgggtggc gtggactttg 1860
 agtacgtaca taactaccgg tggtcggcat ccatgggccg gctggaaagg ggctgcgaac 1920
 agtaaacatc ccatgatact ggccaataat ggtaacagga cgtattttca agtcgcccta 1980
 aagatagctg cggttccaag gttcgaatgt agtcgcattg agaataaact aaaccatcta 2040
 tgcctcgagc ggtattatca cgtgcttcat tcatgcataa catagaaaga cttatgcagc 2100
 ggttgaattt gacagtcaca agtcgtggta tctcggcatg gtccatgttt aataacctcc 2160
 caagtacatg ggttattgaa tgtcacgggg atcctgggta tttggagccc cttttcgcgc 2220
 tcatgcaggt cttaaagcagt ttgagcgact gaagaccagt tgtacgtgaa acgatatgga 2280
 atgattcccc aaacaagctc gtctgagtg gcttacctcg ccggcccgcc tgtccaagcc 2340
 attctctaaa ctgtgggtctc agccgcagcc aaattgccat agggcctaac cctgaaggca 2400
 cagacatgat tatgggtgcag tctcaccagg aacaatggtg gggagccaac ttctgagtgg 2460
 agcagctgga gctgtttcag gtcgatccct gagtctggag tcagggatgc tacatcaagg 2520
 ctacaatgta tactctggag tactccaagt attcactgag agcagtcaag catcgaatgt 2580
 cccgtctaga aaacgcggag cttttctcta cttcagatac caagagcgca tctggccggg 2640
 tattgatgcc ataatgcac gagcctgaga caggaagctg aaccaacagg tatcttgctg 2700
 tgcaattcac gtaaattcgc attcctgccc tcttatacca tctgatcat cttgaacagt 2760
 ccgatgattt tctcctacg aggagtctag accttactgt ccagatggct atggacgct 2820
 ggagtcggct gtgaacgca gagcctaacg gcaatcccag tcccagacct gcgatgaact 2880
 gactatccca atgacctatt tatatacgcc agcaggata aataagcttt gcttggacct 2940
 ttctcccctg aatctcgaag cccgtgggac cagcttgcgc gttgttgtgc ctcttgatat 3000
 cagcgcaccc cgtcgtggag aagtctcacc gtggtttgcc aaatgataac ctccagagat 3060
 gcacatcacc gaaaatccct tgcgatcaac ctgcgaaat tccactacaa gcctacaagc 3120
 acgcaagagt ggacatggct cacagtgatc tagcaaattc gccgtcgaat ggagcggcct 3180
 cttgaggctt accctgtagc ctggggctct ccgtccatga agtatgaatt cctctctgc 3240
 cctggcgccc ggtcccgatc tctcttttct cgccattctc tcaagaatca acattcattc 3300
 tttgctcgc ttgattgttc tatctgactt ttagtgctat tgcacctttt cactcacttc 3360

cgcttactgt ccttcgcacc ttccattcct ttgttagtaa agctggctct gcgcgccact 3420
 ctttccatca gttacaggca taccacaacg agttcggacc ctacggtcgc atcttcactt 3480
 gagccttgca tgcttaacag tgtcccaaca tgaagttctc cagcatcctt gcgggcgctg 3540
 ccttctttgc cagcagcgtt gtcaccgctg acctggaccc tatcgttatc aaggtagcag 3600
 acggcagaat gccacgacaa actaagctag gatgaggcag tatctaacct tgtgcagggc 3660
 tctaaattct tctacaagag caatgacacc caattgtacg atcttctttc catgagtatc 3720
 gacggagact tgtactgacg tgaagcgcac gtatatccgc ggtgtcgcct accaacgtga 3780
 gccctcctga cttggccgtt gatgccataa ccgagcttct atggctgacc tatacagagg 3840
 aatattccgg tccaaagtct gatacaaaca actacaagga cccctggcc gatgtggagg 3900
 catgcaaacg tgatgtccct tacctccaga agctcaatgc caacactatc cgtgtctacg 3960
 cagtcgaccc taaggcggac cacaaggagt gcatgagcct cctcagtgat gctggaatct 4020
 acgtcattgc ggacttgtct tctccttcag agtctatcat ccgtaacgac cccaagtggg 4080
 actttgatct ctaccagcgc tacgcatctg ttgtggacga actgtcccag tacagcaacg 4140
 ttattggttt ctttgcaggc aacgaagtat ccaacgaccc cgagacaact gatgcgagtg 4200
 cctttgtcaa ggccgctgtg cgtgacatga agcggtatat caaggccaag aactaccgcc 4260
 cgatgggggt tggatatgct accaatgacg actcatctat tcgtgtggat atggccgatt 4320
 acttcaactg cggatgaagag gaagacagca ttgacttttg gggttacaac gtttactcgt 4380
 ggtgtggcga ctccaactac gagaagtctg gctacaagtc ccgcaccgag gagttcaagg 4440
 actactccat tctgtcttcc ttcgccgaat atggttgcaa tgcagtcact ccgcgcaagt 4500
 tcaactgaagt cgaggcactc tatggcgaca agatggccga ggtctgggtcc ggccgtattg 4560
 tctacatgta cttccaggag gataacaact acggtatgtc cctctggcac atctgcatct 4620
 actttctaac agaaactagg tctggtctct atcaacaacg gaaacgccaa gaccttgaa 4680
 gacttcagct atctctccaa gcaacttgcc tctgcaacac cctccggtac caagaaggcc 4740
 gactacaacc ccacaaacac cgcgcttgag tcttgcccaa ccaccggaaa gaaatggctc 4800
 gccgcgcct ctctctccc tcttcgccc aactcggatc tctgcagctg catggaaaag 4860
 agcctctctt gtgtcgccaa gtctgacatc tctggcaaga agctctctc caccttcagc 4920
 actgtctgcg gctaccaggg cggcaagttc tgtgaaggcg tttcgggcaa tgccaccaca 4980

ggcaaatatg gtgcttacag tgtctgcact cccaagcagc agctttcttt tgccatgaac 5040
caataact 5047

<210> 2427
<211> 1851
<212> DNA
<213> Aspergillus nidulans

<400> 2427

aggagtgctg tctatagcat tatgggtggtg tcggcgccca tcgtggccct cactagccga 60
cagcttccgt ggatagttct cctcctcgag ctcttgaga acccgatcat gagacttctg 120
actgcgctca aaactgcccc gttgctggcg gcctgcgttg tggcgaaggc aaactaccct 180
gccatcccg tagatacgac cactcctgtt cagcagcgcc ttgccatcta cgggtcccaat 240
tgtaagataa cgccccctgt cgctcggttg tcttttgta atccctgcta gcaatttcga 300
tcgggtggaa cacgtacgaa aagctgaacg agtcctgtgt cgagtatgga acgtcgagcg 360
agaagcttga ccggcggggc tgcgcattgg tcgagccaac cacgtaccca acatctcgga 420
catacgagaa tgtggttata ctgaccgatc tgacggctgg caccacatac tactacaaga 480
ttgtgtcgac caactccacc gtagatcatt ttctgagccc tcgcgttccc ggcgatgaga 540
ccccgttcag catcaacgcg gtcacgatc tcgggtgtcta cggcgaggac ggctacacga 600
tcaaaggcga taagtccaag aaggacacta ttcccacat caaccagcc ctgaaccaca 660
ccaccatcgg ccgtctcgcc agcaccgtag atgactacga attcgtcac caccctggcg 720
atttcgccta tgcagatgac tggttcctct cactagacaa tctactggac ggcgagaacg 780
cttatcaggc cattcttgag aacttctacg agcagctggc cccgatctcc ggtcgaaagc 840
cgtacatggc cagtcccggc aaccacgagg cggcatgcca ggagataccc ttcacgacgg 900
gtctctgccc cgacgggcag aagaacttca ccgatttcat gcaccggttt ggccgaacca 960
tgccgtccag tttcacctcg gtctccacca acgactcagc gaaagtgttc gccaaccaag 1020
cgcgcgaaact ggcgcagccg ccattctggt actcttttga gtacggcatg gcgcacatcg 1080
tcatgataaa caccgaaaact gatttcgaag acgcgccag cggaaaaggc ggttcggctc 1140
atctaaacgg cgggcctttc ggcgcaaaga accagcaact cgagttcctt gaagccgacc 1200
tggcgagtgt cgaccgcgat gttacaccgt gggtcacgt cgccggccat cgccgtggt 1260

acacggccgg cagcgcatgc acaccgtgcc aagaggcatt cgaggatctg ctgtatacct 1320
 acggcgctga cctaggtgtc ttcgggcacg tacacaacgc gcaacgcttc ttgccggtct 1380
 acaacagcgt cgcggaccct aacggaatgc aggaccccaa ggcgcccatt tatattgtcg 1440
 ctggaggcgc ggggaatatc gagggcttga gctctataac caagcagttg gatttcaccg 1500
 agttcgcaaa tgatgaggat tatacctatt caacaatcag gtttttggat cggaatcacc 1560
 tccaagtga ctttatcaac tcggtctctg gggaggtgtt ggatacgagc acgctgtata 1620
 agagtcatga ggcgcggttt gtgaggcagt gacgggcccg gttctgtata tagcagaaac 1680
 atcactcggg tatatacgct tgtggattgt acatagttgg tgatgcggca atggccttct 1740
 cttgcgtttt cagctctctg cctgggtctc cagccccgcc ggatatcccc cagcttggtt 1800
 agccggaccc cgtgggggcc tcactttcta tctccaatcc ccaccactct t 1851

<210> 2428
 <211> 433
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2428

aagcacaaat tacatcaaga acgtctatct ctgtatcatc catgtacgac tcaactcgag 60
 ctttaactca ttgaggaaac ggatcgtcag cattatgcaa tcttcttaac accaagactg 120
 cattgaaaat aaccaagttt tgtacatcgt tcgggctcca gcacataaac gatgcgaata 180
 aaacgaccac aaaaccacct aggtcttgcg ccaatgcaga aatctaggta cgtccacacg 240
 cgtcatgctc tcccagcatc tgttgaacta cctcgggata tccaatcgca aagatccaga 300
 ggcctcgcca tctatgggtg catctcgctt gaatgatcgg cactgagtat ctatgctgca 360
 gccaaactatg tcttgtctcg gtagtcgagt caagactgtc cgtaccagat attcggtctt 420
 ggaaccacat tga 433

<210> 2429
 <211> 762
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2429

aagatcgata gaatcgtgga cgggggttga gagagcttgg acttcatcaa gacactggac 60

ccggccattg caagaatagt tgcgactgc tatggatggg cgacaaacaa gggatttgct 120
 ttcttgattg gcgtggtggt cctcgccttc gtgagcagct tattcattcg cgaacggagc 180
 ttgtcacgct gaacacgcac ccttgtcaag gagtaggatg acatcgctct ttgatataata 240
 tggaaatacc tgtgttttagc gttattatat aaaaagtagt gtattctgta taaaatttca 300
 gtcacatgga tgttgatttg ccttggctcc aatctcacct actacggaag gcggcgatcc 360
 cgatcatctt catactgccg ccgattcgat gttctttgac caccaacact actcgtgctt 420
 tctcagcgat tcttctggc ttgttttctt ctgacaagtt gtaataatgg tgaatcattt 480
 tgtctagtat ttccacatat cttcaccatg tccgactcgc aggctaagtt gacctcgcct 540
 cgctaccgtc ctctcgttta ccttctctcc ggtgttgctg cggcgtatgc gctcgttctt 600
 cttcgaaacc atctcttctc gtcttccccg tcaccaatcc tctcttcgcc cggggaaagc 660
 cgttccgccg tcaaagaaga aatgagcccg aagaagttgc agctggcgac acgccggcgg 720
 tcttgccatc ggccattgga ggttctagaa cgccagaacg gg 762

<210> 2430
 <211> 4717
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2430

accccagagt ctggaagaac ccttccccag tagactcgga aggcgtgacg gtccagttgt 60
 ctgagagaat gtatttgtaa ccaaagccct ggccatctcg cgtctcgccg tgagggcgctc 120
 taacggagac acgacatacg gagctggtga gtagctgcca cctccagtga tgaggtgtcc 180
 atcataggta tgcctgca agttagaaaa gtccgactgc ggcgtcggtc ccgtggcgag 240
 attggccgcg tctttgcaa agatccccag cgacatcggg ctgcgaggag ggaggggtgtt 300
 gtttttggtc ttgagcagga cgattgactc ggaccgggt ctgcgatga agtctttgct 360
 gctggggtct cggacgttga ggtcgccgt ctcaacagga aatgcgtact cctcaggtgg 420
 ctgaaggagg ttcaactgcg tggccacgat tctcaacgca tgttcagtca tgacgctttc 480
 tgggatactt ccgttcttga cagcagccat gatctccgag acggagtacc ctgagttcca 540
 gccaaagccc tccaagcagg ccggcagcct tgtccacagg cgcagtgaca tcagggacga 600

tgaaacctgt gatttcagca gtgtccagag tgaagaaata agaagactat cacaatgggg 660
 taatacctct aaaaccggtc tcattcttca aaatgccgtt cataatgtga tcattttcac 720
 agccaatgat tccattgacg cggttcatga cacacataac ggaacccagt ccattcgcaa 780
 caccgtctat ccagggccag aggtagagct catgtagggt tcggtcgtct agattgctgg 840
 aggtccgcat cgcaggggtg tcgctattgt acgaagtgcg attggtttct tgttcattcg 900
 ctactgtagt cagctactat acttgaactc tgggggtatg agaaggcgtg caaacccaag 960
 taatgcttgc cgcaagagat catatcttgt tcctgaatgg cggctacgcc tagaccgaac 1020
 ctgcgtcatg ttgagccatt atattcccca aaacttgga tttcgagtct ttacattttc 1080
 ccattcaggt acggatctga gccctaagcc tgagcgtagg aggtgcggtc gccataatga 1140
 tatatgcagc cgcttactag tccttcccag agccttgaac cgagcggact cctaccaaga 1200
 ggtccagttg aaggccctag aagcatgttg tatccctttt tgcggaactc gacagccatt 1260
 cgtgaatagt ggtccgcaat cagagatcgg ttccaggagc tggatgatcgt ctggccgcca 1320
 acccagccag agacaccttt ccctccagag agaccggttg gacctgaaag acttttagcat 1380
 cagtgggtga aggctgaaac gaagtgcac tgcaagaggg ctggaaatac tcaccgtcac 1440
 tcgggtcaaa cggcaciaag cccggcgccg tgccatccct gacagagata ttggcttgct 1500
 gctctaattg ccagggcagc acaagtgtct ctgctgcttc atatgccttt gccagtcac 1560
 gatacggctg ctggctctga ccttgacaa ggcctagcag cgtcgctacg ctagtcaaga 1620
 cggggagaat atttgaatgc attctgaggt ttgatgagac gaaggccacg agatttccgc 1680
 cactgcccag tgaactaaaa caatcaggag cggctacatc tgtcttttgt accctttatt 1740
 tgctcctcgt gccccgtcc ggcttctccg gatgtccaag cagaaactga atttgcagca 1800
 ggcgttggca ccgtaggcga gctcaccacg ctcgggcgaa catggcccga gttcagcagc 1860
 tccaaccttg gcttgataaa gccattcatt atttcctcag ctctctgtga ggtgcccggg 1920
 gagattaagt cttggctcct ttagcacgag tcctgggggtg ttgccaggat tccccgtaca 1980
 atgcgggggtg gaggcgagga ctaagccgca gccacggcgt aggatatccc ggtttagggc 2040
 cttccatctg gctgctgag tggtcactta ttgatctagt ctggcatga tcatgttgta 2100
 aatgtcattg gacttttctt cagctagatg cggattgtat gatagagatc atcgactagt 2160
 atagcactac acctttgacc gagggaaattt ggtaattatg ggctgttgat cttgaaagac 2220

ctacagacac gattattgat agttctggag cattcctggt catagtggac tgaatatatg 2280
gcaaggcacc ggactcgtt ctcatacctg cgtagggct atgcttcggc tgaacttcgg 2340
aacatcgaat tacagcgcaa gttcgccgct aagctagggg aaaacaggaa tagcatccgc 2400
agttcaattc tccaagatat tgacggagta gaaagtgcgg agtcgagggg gagtgatggt 2460
taatatggcc tgacgagggg ctactggat ctccatgtcc aagaattcct gtacgacgaa 2520
tatctgcttg tctttgactc tagtcattcc tcagttatca ttatttagga ttcaaggccc 2580
gaaaaaagaa cagttccaaa tcaagttggt aggccttcaa taccggattc agtataatta 2640
gcctgtttgg ccaggcagtc atcatgggtg cgcaaagttg tcaataagaa tccagtccca 2700
aactccttga acagccaaga aaccttcatt tcacaagtac ttcgacgcac tactcaagat 2760
atccaaaact catcagcagg ctgcgcaaag acagtacgac taatctggct gtactcctat 2820
acctccaatg tcttgcaatg cggatatact ccggagacgg aagaaccact actgtatatg 2880
ccgaaactcc tatttgtagc atagataggc gagtctagcg atatcaacgc cgaaccaatg 2940
ttaccaaga gctctagcg tcttattaat cctctgagtc gctgcaggcg actgcaattt 3000
tcccagcctt tggaaagctg cgtagctacc gatgattgca gcagctcata agtcgctgtc 3060
aatctggcaa ggctgaatga gggagcgaga tttctggact gttgtctatt ggtgtcatgg 3120
aaagctgtac gttcggcaca tggtcagtct catatgttgc ctcatatgtg tccatogaac 3180
atgtattcgc gcctttgatc caattactca ggcggctagt tctagcatta tctaccgaca 3240
aactcgacgg tgatcgacgg acaaaaatac ctgactactg ataagaaggt cagcaggacg 3300
gccaacgaag ttgaagcgga caagttaacc aactgcatt attcgggtgtc ggcagcgagc 3360
agagtgggaa aggacgagcg gtaaaggaat gaccagcttg agtagggctg tgtgactact 3420
agatcataga ggagtaacct gcctgcacg tccatttgag atacgcacac ctagctcagg 3480
cttaggaggg actgtctgag gagccagtta caaagacggg gttatcctcc gtgttagaga 3540
gogatgttca aatacgttag ggtctgaatt ctctagtga ggcggcaca gaaaagagc 3600
aagcaaaaga gaagagagct gcacatcgtc ggacaaggtc ggatctagga caatgtcttc 3660
tactacttgg ttgtagtcaa gatatttaca atggtaactg ggaaacgaac tgcggaacta 3720
cagcaatgct gactgacgct tcagataata gatgggtatt tcctatatat aaccagaaac 3780
ccactattat tatctccata cgttgcgaca acatgcgaca actctccgtg ggtaaccaat 3840

gaaacaatat ggtatctctc atataaacca aatatctata ccggccgtta ttgcgacctg 3900
 cgggagttcc gattcgggtga tgccattaac cagaatatcc tccgggtatt tgcgatttta 3960
 acgctgatgt agcagatgcg acttgggctg aaatactaga atagacaaag tgcggtgaca 4020
 cggtcgcagc aaagatgcat tatgtgcgcc aatgtcaaca gcctgcggaa ctcggtgatt 4080
 ctcaatgact ctgcgcggga gatcctcgtc ctgaggaaga ctgggtagta tcattcgagc 4140
 tcaagttgtg tccggctttc tggagttcat cctccatgga gactatgatt ggtggcgctg 4200
 acctaaagg tgatggacca gggactagag gcgaatgggt cgacccgcgg ccgtgatcgc 4260
 tcaagtttgt agtgctgac gtgagcgcgt taatattgtg gctgggtcca gcggtcaacg 4320
 caggaacga gcgcccagcg tttaatccat gaggatgaac gtcgagactc tcaggaattt 4380
 cggacgtttc agggtagca acttgctgat aatcaccttg tcgtcttgga gcagagtcgc 4440
 attccgaatc cgagttcgga ttggagtccc aattgttgtg ttgggtctcc gctcgcat 4500
 tcgatacctt catgtagttg taagaggcaa tactgccaat ggtgacaata agaccggtca 4560
 cattgacggc cgtgagtttg tcgtggaaaa tcacgccgcgc gcagtaatt gtgactacct 4620
 cttgaatat gccgcaaata ctcaaggtaa caaccgagga tcgcttgagc aaagcgaatt 4680
 cggncgggat cgtgcagaat gctaaaacaa ctagaac 4717

<210> 2431
 <211> 2788
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2431

catccggatt gatgccccag acattcacct gcccgacggc aggccactcc gaggtgaaat 60
 ggtacttcca gtatccgtcg ccgcccggcg ccgcgtccag cttgatctgg ttgtccagac 120
 cgccgtcgta cccgtactgg ttgtagggcc cattgaaaaa ggcattgtggg aagcgacgtg 180
 gcgtcttgta cttccagccg gaatcgccct cctggacgtg gctactgctg ccagtccagc 240
 gggaccagta ctgcagcgg atgtgatgtc cctccattc ctgcgcctta gtgccattcc 300
 atggaagcat ggtaatcgtg tcgttacctc ccttgtagct tttccagtca gagaacgtgg 360
 tgccccaatt cgtcgaatag cggtagttgt cagcaccggc agcgtggtgt tggatataga 420
 acgtgccgtc ctctttctca tgcagcaaac tgctggagta gttggcagag gtaaagacca 480

tgggggttgtc aatctgcccc atccggaaga ggaagtggtc gactgcgtgg gtggagtcgt 540
 ccccgtcggc gttgctggcg ttgttgacag tgaccgggtg gatgccgttg tacacccctc 600
 tcagatctgc agcccaactgc cacttacggg ggatgtgccc ggtagcgttg ctggtggcga 660
 cttcagtgat gttccacac tggacgggtg aggcgtcgat ggatggaatc ttgccggttt 720
 ccgtggaaga gttaaatgag atggagtctg tgacagaatc gcatcccatc gcctcagaaa 780
 actgcagcgt cagtcgcacc gtctcggacg catctggtgc gacggtcgaa cgcagcgggc 840
 tgtcgggtgcg ttggcctcat cgtcgccggg ctggaacttg gtgatcatcg gccggggcctt 900
 tttccagagc tcgttcttga cataggcacg gaactcgtac cggctaagcg tcaggttcgg 960
 taagcagcct accagctcag tcgagttgcc atagaccatt tcctttggcc cgtcgcctag 1020
 ggtcagcgtg tcgtacgggt gaaagagggt cctgaccttg gtgcctgagg ggaaggcggc 1080
 aatgagtgcc gtctcattgt cagagcaatc aaatgtgtag tcgtgcgtgc ggttcatggt 1140
 gctatagact agccagatgg gttcgttgtc gtcactcgag ccaaagtcct ggggtctcttc 1200
 gttccgggtca cggcggaccg accacatgcc tgtctcggtc tcggtcccggt tggaaccggg 1260
 gtagtagaca ggttccgtct ggtagaaag ggtctcgatg atgaacccat cgttgagcat 1320
 tgggtactgc tcgcgcatct ggtacatgtg cttgatgatg ttgcgcaccg ggtggctcgg 1380
 gtcccgggtg tcgtaggtag ccgtctcgtc gttgcaaccg tcgagtgcgg ccaccagggg 1440
 ccaactggtag tactggctcg attcgagtga gaagcagccg tgctcttcc acgcggtcgc 1500
 agacgacatg gcctgtcgtc catatatgta gtttgacgcc gtcgcatcga gcacgtagaa 1560
 cgcttgctcc tctcccaaaa gcagcagcgg gatgcccggc agcatcagcg tggtgataaa 1620
 cgagcccagc atctgcctct caacacccca ctcgattgcc ggccaacgga aaacatcctg 1680
 gtttgtcacg ccgtacatgt gccggggatc gaacttgccc gtgttggcgt taatcaggtc 1740
 gttggtcacg gtcattgttc cccatgcctg caccagtcga agagggacgt cataaccggc 1800
 ctccagctgc ccgtccattc ccaggaagcg ggtcagggca cggtaagtcg agtaatggaa 1860
 ggcaccggcg tcgatagcct cgtggccgac ctgcgcagc aaaagctgcg gatccgactc 1920
 gtttgtcagt ttcattggcg cgtagatatt cccaccgaa tcgacctggg tcgactgccg 1980
 tcctcgtccg agatagatag acccaaaagt attgcctcct gtgatctcac ccgcaatgaa 2040
 aaagttctcc ttgccgacag cccgcgcgca ttcccgatac gctttggaca tgtcccccaa 2100

cgcatcgaca gtcgcctggg tcgccttgtc gtaccgaata ccgtcgatat caaaggaggc 2160
 aatgatcatg catgtgtgtc ggatcagccg ttcccgtaaa ggtgggtacc attctctcaa 2220
 ccgatcctgg acggacgcaa acttcgccag ttgacgcttc cagtctggcc agacaccgaa 2280
 cgcttcgatg tcaccgtact ggtcaaagtc actatcataa cacccgacca ggcccgcggt 2340
 cagggactca ttgactggca tcccgtcctc gtaccagaag cgcggataat cacaggtggc 2400
 gttgtaggtg ttgccaatat cgaaatcgac gtaccgtctg ttggacttcc aaagggcctt 2460
 gtgttctttc tcggagaagg gcggtggtgc gttgagatga ccttcaaaac caatgagatc 2520
 accgaggctg cagtaatcta gtgtcaggcc caagtttttt acaaaccgat ggcaaaacgc 2580
 agggaggcga ggtactcacg tagcgattgt attgtcgaac agaacgtaca tccccgctt 2640
 gaggatttcg gtgatggcgt cgcgccgacc tggatcgtct aaagtgcctg tcgagaaggt 2700
 gtgtcagcgc caatcccatc gagcccaggc tgttatgagc gagttcgcag gacgtcctat 2760
 cgaatgtaga tcactttttt tccaaaat 2788

<210> 2432
 <211> 1076
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2432

ccctcgtctg gggcggctct tccctggctg cgcacccaaa ggccgctgga gaggaccttg 60
 caattgttgg gagcgtgatg tgtattcgcg ctggaagtga agaagaagtg cgcgagatga 120
 ttcgcaatga tccctatgcg aagggttggtt tctggtatcc agagaaagcg gtgatcacgc 180
 cgatgagatg cgtgattagg aagcctttgt agctattttt gatatcccggt ttatagcttg 240
 ggcaggatc aataagaatg tccgtgaaat gatatgttac ttcgtgactt aagatttccc 300
 gaagctgggt aatcatgccg aatatgaaaa gtatttgaga agtcactaca agacaaatat 360
 atctttatctt agattcttta gacggctata caaatgctac attgcaaaat taggctgtct 420
 cgtaaataata agggaaagaa gaaggctaga agctttcggg tcgtaatact gttcagtcta 480
 tttggaacat caggaagcta acaaaatagc gaaatcaata tgaacttttt ccattaaaca 540
 ctcgatcacg ccttcacttt gagcttgaat ccatacagac taactcgtag cccaacatac 600
 ataaaacctg ctaccaggga agtcacgcct ccataatccc agaggccagt ccagttggaa 660

tgggtgggaat gagagaggat agcaccgccg gccggggccac cggccaggac accgaggccg 720
 accatgccga aacccatgcc gattcgagta ccgatttttg tcttatcctt ggtcaaggca 780
 acaaagcaga gcggtggcag gccgattaga gcaccgccga agaaaccoga gagcagcgcg 840
 atgacgatca agccagcttc ggtggtcacg gctaacaagc acagaatgag aacgccgaca 900
 gcgagacagc acggtgcat aagggtaaaa gggcctatct tgtctgccat agcgttcgga 960
 atagttcgac cgaaacagga ggcggcggtt agaatcgga caatatagaa agccatgcgg 1020
 gtgtcggtga tgggtttggc ggctccgaag taagagatgt agaagagaag ggcaaa 1076

<210> 2433
 <211> 1946
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2433

ggctggaatc ggtgttctgt tggcccatga attgggatgg gaccacgga ttcaggatat 60
 gaagttcagt ccgctttttg tgatgttact ctgtagggtg cgtgtctacg tacgtaagtg 120
 tacatagtct attatggttt aaggatgtaa ctacgccgtg gccggcaata tgatgatccc 180
 caggatttga aaagcgataa taagatgagg cgcgtattct gaagaaattg ataggctgaa 240
 ccaagtagta tagcgcgctt ggctcatcaa cgtgatactg aatggatagc gtagggctca 300
 agagatatca ataattaaga gaactcttgg gctcggctgc gggagcgaga cagccgagat 360
 gctcacacct ggaatcaata tcgatctgct gtgagaggct ggtggtgtcg acagcttctg 420
 tggttctccc tagtgtgagc gatgggtcaa gtacaaaggc ccgcccttgg cattaatttt 480
 ggaccctttc cgtcagtcag attagggtaa taaacaagac gtcaggttgg ggtttgaaac 540
 agaggcggtc tcttgctcgg tgaatttgat gcggaaatct gtcacgcgt cgtatatact 600
 ggagggtaga gtacgcatta atgtccgggt acccagagta cttagtacgg tatacggcgt 660
 attctgcgcg gcatcaaagt cactgcttca ttccatgac catcgtcgag gagattcaac 720
 ggcacgcctc acgcgcaagc aagaattctg gacatgatcc atacgaagtt acgtatgtgg 780
 ctctgtgggc catgattgga tcgccggggc cgaacgtctt gcgcgtcgac agctgaacca 840
 tgctgatcgc catcctatgg caccactgc cggggaccgc ggagggtgac atttggcatc 900
 tgagtcagga gcaagcacca ccatctgacg gcctgacctt ggcgctgacc agatgataaa 960

catggagtct ggaaccctgg ctggttagga actctatgtg ttctgtctta acagaaccag 1020
cagcgtgtat ccatactata gaaaaaagg cgagaagtag aacagtgtac gacatctgat 1080
gccgaggcgc ggacgcgctg ctgtccaaca agcctatact cacctcagtc caagtcacct 1140
cagtccaagg accaattcct tttgagcggg agtctaagtg aggagtgcga atctagggca 1200
cggaaccccc ttcaacagtc aagaaagctt agaagagacg caatcgaacc ttgctgggtga 1260
gattcgggtca gcagcggttc ggggttgattt cgacggcgtc tcagcttcag gaggcgccat 1320
gcagtcaggg acacgcggcc cgtggggatc gcagcgagct gactggccca accgggcgga 1380
aggccgcgct gatccaactt caactttcgt gctctcaagg gtcgcaccac caggttttcg 1440
caccttcctt ttttttattt cgggtatttt cgcttcgaga gatcgaatat ccgatgagt 1500
ctgacgctgt cgtagacctc tttagattaa ccgccccatc tccgttaatg gcaaacaaca 1560
aaaatagaag aagccgccac ttcactggag cattccatgg gcaataatag cgattgtctc 1620
tccccaccac cttctcgcgc tagtacgatt gccgtaattt tcatgccgtt tgcagttgga 1680
ggcatgacga tcatcggttt gaagagtctg aaacaagtgc aacaatgaca tatctgagat 1740
gcatgcatac ctcacacaac tttgcaatat ctgtttgttg cctaaatgaa tgacaaaagc 1800
atgcgttgtc ctgcagttta cgcgcgagaa gaatttagtc tgggggttgca gctgccctga 1860
tctggggtta ccttgagact tgtgccttgt gtcgcacaat tactggatgt ctgagagcat 1920
atagtattgc gcacgctctg taggtt 1946

<210> 2434
<211> 956
<212> DNA
<213> Aspergillus nidulans

<400> 2434

aggcaggatg agcgacgccc gccatggaga ggattgaggg cgctagatcc atcaccgttg 60
cgaattgatc tgtgattgcc ccattagaag cctggggagc cgtcttcggt gacgaaggga 120
accgtgctaa aaacggaacg cgaacgcccc cctccgttgt gtacgctttg tacaacctgc 180
tcggcgccgt ggcagcttgt gccagcgtg gcccgtagca aatgaaacta tccccgttcc 240
cgagattctc gtagctgtta ttgtagtatt ttagtaggtg tggaagaaca ccgctctgca 300
cgagggggata tgccctcgta gcagctcctt cagcgccggt atcggacata aagcagacga 360

atgtgttgtc cagctcaccg atgctgtcca agtaatcgac gatcttgccc acgttggcgt 420
 caatacactc gaccatccct gcaaagactt ccatcgcgcg gcaggagagt ttcttttcct 480
 ccggcgtgag ttcttcccag ggtttacctt cgccttcgtc gacgacaacg ggatgaggct 540
 gtacatcctc ccgaatcatg ccaagtttct tgaggcttgc aaggcgtttg agacgtagtg 600
 cgtcgggtcc gtcgtcgta acgccgcggt agtggtcgat atattcccg ggtgcttgca 660
 gcggccagtg cggcgctgta aagggcaggt atgcgaagaa gggcttgtct tcgtcctctt 720
 tcttgttctt gtgccagtcg accagatact cgcgcatttt atccccatac ccattagagg 780
 agtaccaccc gctccggcag actgcggaca tacttgtcgt cttccatatg cagcgctata 840
 tagctagctt caaggaaagt tggcgtctca tcttgatcgc ggagctgcgg ctcgtagca 900
 taatggttcg agcaagcggg gagatgggca agagaacgat cgaatccccg cttata 956

<210> 2435
 <211> 1523
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2435

atacaacctg ccccaaaatg ctcaggaatg gttcagcaag gtatcatgac tcaatggctt 60
 ctaattgttc caggatactg attattattt gctctatagg ccattcacac caacgtccct 120
 ggcggaagc tcaaccgcgg tctctctgtc cccgacaccg gcgtggccct cctgcagaag 180
 gaactgagcg aggagcaata caaggacctt gctacacttg ggtggctgac cgagctgctc 240
 caggccttct tcctcgtcag cgatgacctt atggatggtt caatcacccg tcggggccag 300
 ccctgctggt accgccacca gggggctcgt ctcattgcca tcaacgaagc tttcctcctt 360
 ggtccggtt tctacgttat cctgaagaag caattccgtt cacaccctgc ctacgtcgac 420
 tttattgagc tggtccatga gaccacctg cagacggaat tgggccagct gtgtgatctg 480
 atcacggcgc ccgaggacaa ggtcgatctc aacaacttct ccatggagaa gtacatgttc 540
 attgtcacct acaagaccgc ctactatagc ttctacctcc cggttgccct ggccctccac 600
 tgcttcagc ttgctacccc cgaaaacctc cgtcaggctc acgacatcct cattccgctc 660
 ggccaatact tccaggtcca ggatgactac ctcgatcgt acggcgaccc ctaggtcatt 720
 ggcaagatcg gaacagatat ccaggacaac aagtgtctt ggtagtgaa ccaggctctg 780

cagcgctgca gtgccgagca ggcgaaggtg ctgcacgctg cctatggctg taaggacgct 840
 gagcaagagg ccaaggtcaa ggctattttc cggaattgg acctcgaatc cgtctacaag 900
 gagtacgagg agaagatcgt ggggtgagctg aagacgaaga tcgcggctgt caacgagctg 960
 gaggggttga agaaggagggt ttttgaggca ttctcggga agatctacaa gcgcagtaaa 1020
 taagcgatag gcagcatagt atgcattttt gagatactc gcaatagact aaagacatta 1080
 attcggattc catgaatgtt tttgagcaaa aagtggattt gtacacagat tatgtatccc 1140
 tccaagaatg agtcgtgata tttttagct tgaatttgcg cgcaaaaaat tatttctggt 1200
 ttatcattaa aaaccaaagg ttctgaatgt ccaagctta accccagggg cccaggcttt 1260
 gcgccgtcca gggttcagga gtcgctggaa ggtttcacgt ttcaaccctg tcgatcccct 1320
 attctgtcgg ccttagcaag tcgctctaac taaaaaaat cgcgttgaca tcccgttacg 1380
 tatacttctg tgacaagtat atgaacctcc agcactcaat ccaatggcta aaattttctt 1440
 tgctttgccc acccttttgg ttcacctaa atgtggtcca agttttataa tgtggcccc 1500
 attttagcc atagccactt ttc 1523

<210> 2436
 <211> 5167
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2436

cccagcatga gagttcgcgg ccgcataata cgactcacta tagggatcta tgaaggcgtc 60
 gatatttgcg ctgtggaggc tgtggaagga tattaaggac cctgagccca cgatggctag 120
 ccttcctaga aacgaagaga atgggggtat atacattcca taaatatgat cccgtaccat 180
 cctttatata ttgcttcgag cattctctga tggggctatt ctctctcaa cactctcagt 240
 gcctaggtga aagttcgtcc ttgaccgaga aacaactaac gtcttatacc ctagtctctt 300
 atgtatgcat agccaagtag ttaatagaga gatttaggtt aagtagcctg atatatccac 360
 aatagcttga agatataatc tacatatctg ttctctgtca ctgaacatac ttggagtagt 420
 accacttaaa gatgcacagc gataacctct gtaatcattt taaatttgaa gtaaatcata 480
 acaactctc ctttcacctt atactcaatt cctcttatag gatattctagc ttccttgaag 540
 aacatcaata ttatatatat tccatacgta tgagggttca aatctgaacg tagttggata 600

aattcctcct cccagtagcg tgtagggaag tctaaagcac aattcagtaa gagttctctc 660
gtcaataata aaacgttttc cgtgcgtcaa gctattacat caaatccatc acaccgccac 720
atgatagcga gatttcaagc ggatcctctt gccgtaagag tagattactg ctggcactgg 780
taacaaacca aggcgacaga cccaagcaat ggattcccc atcccaacct tagtgtagca 840
tacattgaag gaccagcaag cggcaagaag gctccgacaa tggaccgtac cactgtattg 900
gccgctatgg ccgaggcggc atatatgcca aaagcgtcaa agaggtagcg ttgaatgggg 960
agaagggtgg caatcatccc acagccaacc cagcccagtc tgatgatggg catcatccaa 1020
tgaacccgca tctgggcgga ccagccgtac taaaagagac ctatcgggat caggaggctt 1080
cctggaatga gtggcggaag tcgaaattcg ggctctgcct ggccgttatt tcttgcaata 1140
agccggttct ggattttgtc ggagagagca ccaagcaag atataccaat gagggctccg 1200
acgccaatgc cgatggaaac gaatccggtg gcactttgcc agaaataata ggtggcttcg 1260
tataattcgg tgacggtggt gaagagtaag taggggtatc cagaaaccac tcctattatt 1320
gacaaacaat tgttacaatc gtgtcttacc caagattgga gagctactta cctgtatagc 1380
gagaacaagg cgacatttga ggtgaagagg agaagcttcg tcggtctggt tattgcttgg 1440
gtggaaacct tccttgagtc tggctttagg gcttgtgcag cgttcacctg ggatctagtc 1500
tcgtgtctga tgcgattcgc ttttcgtcgc aatagaactg gttcatagga ttcagatagg 1560
acagagaaaa caagaatgac cgcgatcccg gactacgatg gtaaactagt gagcttgggg 1620
cacaggagag gcggattgaa ggggatacga accacaatgg ccagcagcta gaaaatctaa 1680
cgccagccct gtgcttcaga gaggtatcca cctgcgatcg gcccacgac agggtaagt 1740
agggggccca gcccatagat ggacatggcg actccacgct cctgtcgagc aaacatatcc 1800
gcaacagagc ctgccccag tgtgaccgga ctgctcccag aaatcccggc aaacaggcga 1860
aagaccagca gcgcgccgat gttagggcg agagcaccgg cgatattaca gatcgtaaatt 1920
gtcaacgtgc ccacctgata gatgcgcagt cgaccgaaca tttcggagaa tggcgcgaga 1980
aacagcggtc cgatgaggtg gatggagaca acgaaggagg ctagagtcct gttggctgac 2040
tggaagtctc ccatcacgag cccttgtgcc ggtgcgtcaa tggacgaggt caagggagta 2100
aggaaggtaa gatacgagat aatgcccata ttccaccatt tttcttcct cgcaggttc 2160
gctggtcgcg caggatccat aggtccatcc cagcctacct cctcagtcaa tgtttctgat 2220

gccttttccg ccgaactccc ttcttggtcg tgcccgcgtgg gcgttttgtg cagctgggcg 2280
 ttttgtcgat ccgtgacagc tcttcctggt gatccatggt cctatccggg atctataaat 2340
 tctggcacat tagtcaggca aaatagcttc ggtgagtttg tttatcggag agacttactg 2400
 aggccatagc ggatgggttaa gggacttagg gctgtgttta gggggaaaca accggggaag 2460
 tagccatcga tgacattcca cgtgcggcct gttagtgtc actcgccctc ccctcttgct 2520
 ttaaaaatag ataacaaacc aaacagagag agacaaagaa agccacttgg gccgtaagaa 2580
 tttgtgaggt actgtgtatg aacctaacct gactacttgc ctattgtgca gtaatagagt 2640
 aatcctatga agcaacatga cttttgcgtg catagcacia atacgaagaa caatccagag 2700
 actgaggata ggaatagtac taagtaagaa tgaatggcct gggatatttc ctttaagaag 2760
 ctctcttaca cgaactgtaa ttccatacac cgtgtcccc cgattcagag tattgtttaa 2820
 ggggaatcgt tccatgagta ccagactcca accattccgg acaccagaat atoctaaggt 2880
 agaaatatga tcgaaggtag tacacaaatt accgttgagt ggcttcatat tttcaatata 2940
 ggtctcagta agatcctcca tggtcgcagt ctccgaccct tgagcaacca tgaacatgca 3000
 agccaaacac gctgttaagt gaacagggtc taggaattta gatgcacata ccagaccaca 3060
 tgatcgaatt cttgcatgcc ctagttatga atcagtaata aagccaaaga agaaaacaga 3120
 tgttcagcaa accaggaact ggtgaaccag aactaggag cgtactatga taagtctgct 3180
 cgtcggcccc atcaagagcg gtttctcgta gtgatcctga agtacgaca atctgggtcat 3240
 ctccgagaca tacgggcaa tattgcggat tgctccaggt gaggtgcttt tcacctcgag 3300
 tagtgcattg gatgacatct atggtgcgcg gcccggaag cccgagatgg acaaggttct 3360
 acaagggtcc tattgctcct cactctatcg tggcggtgga tggcgagctt catcgcttct 3420
 tgcgccgtct gcttgccagg gagttctcgg atgttaaatt gagagagcag gagccagtga 3480
 accaacgcag catcaatcta ctgatcgaga agctgcatga tgaagtcgca gctggaaaga 3540
 cacctgaaat gacggcaatg ttcaatctaa gtccatgtaa gctctctgcg tgactgaagc 3600
 gcacctaatc tgagggttgt tccagtatgc gacattcgac ctgatcgggg agcttgcat 3660
 cggcgagacc tatggatgga gaactggcgt taccaccct gggtgaaaat gattttctat 3720
 gtgatgaaac tgcgtgcctt gacgcatgct gttgggtact gttcatgggt cttccctatc 3780
 ctatgttggt cgtcctcagg ttttgcgcga ttaattcgct gtacacagga agtacaccac 3840

ctatgacaaa gtacagcgtc gaaaggaccg aaaaatccac tactgggaat tgaccaccaa 3900
cttgttcgat ccacagaccg ggctcgaacg ttatgagatc caccgctctt agcgcgacgc 3960
tatacttctt gactcagaac gaagatgcca agcgcaaggt gatcggcgaa acctgacgcg 4020
ctttccaaag ctgttgggga cattaaatcg atcagcgtga ctcaagatga agtacctgca 4080
cacgcgtgtg aatgagacgc tccagatctt ccctccgcgc tcagccgtat tccccgcgcg 4140
agtcctctta gggggtgatt ggatccttgg tggtaacaaa gtgggaagcg tgcactgctg 4200
catcagttgt tgccgctgga actttgtcga tccagacaag ttcattcctg aacgatggct 4260
tagtgcccc gcgtactaga acgacgatcg ccgcgccatg caggcgttta aatcctcaag 4320
cctgcatttc tcgtaatctc tccggctgaa gatgcgtctc gtcctggctc ggctgatctg 4380
cgagtttgat ttggagttag ctctggatc ggagtgatgg gaaggggctg tggctctcaa 4440
tgtctggggt acgaagccat tcaagatcaa ttcacccag tattatgctg aagtgaggag 4500
atagaaaaag ggcgaggcaa tttactgtt cattgacatg gtcttgtctt tacatcccag 4560
taatattgta tcatgtttgc tttgtgtgta ccgtatcaga aaccctaaat agtttctaag 4620
attacgtact gtagcgctag gatatgaacg atgtccgaat aacaggatag aagcttaatc 4680
gcaatgcctc gcctgacaag aatggaagga tacttggact tcaagaaagt atgaatcatt 4740
gcgaggagaga tcgctactct tgcgacatcc cggttcacca gccgttcgac tacagcatcg 4800
tgtacaccct ctggggtgtc gttttactac cattccagca atatcaaggt gccctgaag 4860
agttttaaag aatatatggt agcagtacat gatcgatcct gccaagagct cagattgcgc 4920
gagtggaaact ccttgcatta gagcaaggta tcgaaccact tattcctggg ttgttctaag 4980
tgtgtctgta tctgtccgca tagctagttc agtatagttt gcagattcat ctaatttgct 5040
ttgggcctgc ctagtaagca ttgcgttcga ggtatttatg gccacatcct tgtggctttg 5100
tgccagcagc gccatcaaca gcgctcagcc aggtccgatt gaccctgtt gcttttgctg 5160
aacgggg 5167

<210> 2437
<211> 2572
<212> DNA
<213> *Aspergillus nidulans*
<400> 2437

accgtcgcca ggcagtcgcg aggggtggcag tgggtgtctcg gtgcaatatg cacgccccctt 60
 cgcggaacgac tcgccgcacg acttgattct tgagattggg ggcgaaaaca cagttattga 120
 cctcgccacg atgcgccccaa catttttgaa ttccacacaa gcacgggtct cgagccttct 180
 tcaggtaatc cttgacagga agaacagcca ggaccggagc agcagctcag cggtagcagt 240
 aaccgcacat tcgatctgcg ctcaaatcga cgaggagaca gacctgacca tagacggcgc 300
 gcaacaggcc agcaaccacc aataccatat cccagacccg gcctcagcag ggccagcgcc 360
 aaaacgcaga cgggtaaaag tagaagggcc ggaggcggcg tcgcaatatg aagaacagga 420
 cgggagtagt aacggtttct gggttgtgcg caatggccag tggcgcatth caatacgccc 480
 tggggcaagt tcgggtgacg aggtgcagtt tgcgttcgtg ggtgttaagc tggatgttta 540
 tactagggag agagtacgga atcggaagca ggcatttttg gggtcctaata tggactgaga 600
 taaagatgca ttgtacctac gtatatacgc agcatatcga attataaata caccatggat 660
 aaaacatgtc attatctttg aagatattct ataggagaag agtgggtggtt taatcggaga 720
 atccctccca ttctcatcc tcattctcat tctcttgctc aatgctatcc tggctctcac 780
 tctcgttctc ggcatctacc attgaaccat catcatctcc ctccctcaca aaccccgcaa 840
 caaagaaccc gcctgtcccc tctcatccc caggccaaca tctcaaaca cccctaact 900
 cctcatccga caaattcacc tcaccaccct caatggcacc atccgcactc ggctcctctc 960
 gcttcacacc gcgatgaatc cacttcttca agccttcagg ctgctcatcc cgctgagaa 1020
 ctctccatcc tctccgcttc gcaatatcac tttccagtat ccgttgacg acggcctcgt 1080
 tctcgagaag atggattgag cacgtgctgt atgtcacctt cctagcggcg gggaaggcga 1140
 gtgcatgtgt gacgattcgg aactgaagggt ttgagagttt gaggaggcga tcttgagtta 1200
 tttcggaat gggagtgtcg ttttcggatg ttgacggcgt tgctgctgat gttaatgatg 1260
 aggggtgtgga ggggtggttg gaggaggatc cagatgagtc gttgcgcttg cgtttttacc 1320
 ttgggttttg ttcttcgac ctgatgctgg ggtgggtctc ccaggcgcag ggaggacgag 1380
 ctgggggaca tcgtcgcggc cgatgatgcc gctccctgag caggaagggt caagaaaaag 1440
 gcctgtgaca tccttaaagc gaggggtcttg cggggtcaag tgcgagaaag tcctgtcctt 1500
 gaaggacgct ggtaaagcta tctgcgtcat cgatagagac cattttcttg aggggtcttg 1560
 cccgatttta gtaggcaccc atggatatga tgcgggatga ctccgccttc ttcttggact 1620

tagctttgcg gagcaacgaa gccatatgcg tagtcttatt gcctggcgcg gcgcatccat 1680
 ctaccaaadc accttgccca tcccagtcac cgccaagcaa cagataggca gggaaacaag 1740
 atgccttata ttgcaggata atctctccat tcttgtagcg cggcgtagtc gagaactcaa 1800
 caccaggcgc aacagccaca aggtccggga tatgcgggtc taaccgcatt ctcttctgct 1860
 tatcgtctcc accaaccact agaccgtcca gtgactcgac attctcgaac gccgcaaagg 1920
 tggctctcaa ctgcgcctcc atcgttggtc gtacattggt gacccgaacc cagcgtggat 1980
 agaccgcgcc actactaccc ttggcccccga gcgcagctaa tttttctttc cgaacagcct 2040
 ccttcagtgc cggaattgtc gcgcaggcgc gccgcacgcg cgcttttgtg aattccccct 2100
 tcagtcgaat cttgtgcctt tcaactgctt gacggagcgg gtgggatgcg ggcgcggcga 2160
 tgccattctt tgcgaggaga tggctcgtga cgaggagaag agcaagcaat ggggtgagct 2220
 ggatcagata ttcttgggtca gtcagcagga ctctccatgg tggacatata cacaatcctg 2280
 atataccagg acagggcaat ggtgagggac aaccttgggt tcaagtttca gaattccagc 2340
 ctggctgatt acttccttga gcaggatgtc ccatttggct gcttcggtga tgagcgcgta 2400
 aacctgtgcg ggagaagctt taagggtgcg ggagttgtag agccgagact taaatgaacc 2460
 accagcagtg gagggcgctc tgagaattga cgcggcgctc tagtatagcg acatgtctcg 2520
 cctagagaat tgtgaccact tctgactgta aaaaagttcg gaggtcggaa ta 2572

<210> 2438
 <211> 1988
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2438

atctcagcgt tgactcggat aatcgaaggt tcgccggatt agagagaaga atagaggtgg 60
 aggatgttgc aaagaagagt ctgtttaggc gcgaacgcga gacgaggaaa gaagggaatg 120
 cgaaacgagg ttaggtgacg aactatataa cctcacttct gcttccgagg caggctaatt 180
 tcgcctctca gccgcaacag caaggcggca gagtgacctc cagttgtgag ataaaaatagg 240
 tatctcagca atagcagggg aagtaataag atcagcttct agcgtcaagg cggggggata 300
 gcgcggcagt gttggacgaa gaaagccaag atcgagagag aagcacgaga ggggcagaag 360
 aggggcgcgg gagggcaccg agcatcactc aatgtgttac cagaatgcat gaagccagca 420

aaagacgccg agccagccgc ttgccagcaa cccagacaca ggtaaagcga acgtggatga 480
gttttagaag ggaacatgc cagtgcagaa agcgagtatg catcacgtga gcgggcagat 540
aagcgccctt tatcgctcg agcccagga gcgtcatcag acaactcacc cccttcactt 600
gtcccttcca tctactaag atctgtcac tgtcatttgc cgttctttt cccatcgctg 660
ccgctgttcg gtccttgca ttctgtgtgc cgcgtatcgt ttgttttaga tccactcacc 720
tccacattcg cccggtatag tctccagtc tccgccttcc ccatcccatc gccaaatcgg 780
ctaagaacta acgacacttg cacttccgtt ccataggatg gtacgtaagg aatataccat 840
tttccattcc agggcccata tcttcatac cagttcgtag gttagctagt cagccctcca 900
tgtgttgact tcttgtccat ccttatctag tcggggaatt acgaccatcc tcccgttct 960
cgccgtgtcg tccgaggaag cagatccggc gatagatctt atcgaccaa cacgaaccgc 1020
ctgcagcacc tacgcaacct attgaatact gaacgcaaca gaaatacctc cgcgcgagca 1080
ctagagacac tcgaccaaga gctggaggag ttccgttccg aacgggagag agatcgatct 1140
tcctttgagc gcacccgagc agtcgtgcat cagcagattc ggagtatacg aggagagagc 1200
ggatctcggg aggatcctat ccatggtgcg agtcaagtt cagggaatcg gttgcagaga 1260
ctgcaagatc ttgatgcaat aagctatcgt ggttcaaggc ccagcaatcg acttggccga 1320
ggtaggggga gtcaagagtc tatccttgac cgttccgttc ctcttttaga aacgccgtcc 1380
gcaatgcctc tggagctggg tcacgatcat gaattggaca ggttgagagt caagcgcagg 1440
aagcttgatt cggatgataa tcgagaagga ctacaaaact taaggatatg tcaatttggc 1500
caagtcgtgc cggggactct gaaaatggag ttggccagtt gtgatggagg cacatatccg 1560
cccgtttgcg aaacgtcggg gccggagaac attcttcggg atgactcgtc cgtgtattgt 1620
acaaaatcag accgctgtaa tctgattcta aaactcgcg gggaggcacc gttctgtttg 1680
aggaagcttg ttatcaaagc gccaaagtcc ggctatgacg ctccgtatgt tcggcctctg 1740
atggttatcg ctgctttact aacctatgcc tctactagga ttcaagcagg gatggctctt 1800
atctctatgt cagctgatga acttctcgtc cgcaccgctc aatatcagat tcaatacgtc 1860
agttcccga gccgccgcg cgcgcgacgc agcggaatgc aaccttccga agaataattg 1920
aactcatatc gaactccgtt acaaactctt gagcgggcga ccttggccgg atttgactgc 1980
ccttctga 1988

<210> 2439
 <211> 1767
 <212> DNA
 <213> Aspergillus nidulans

<400> 2439

```

acggttgaga caacgcacca tgaaacgcct cgtttcogato ggctcccttc ttcgagagct 60
cgaagacgcc cagtcccagt gcagctccct acatgacaca acccgagcc gtatcaacga 120
cctccagcat taccttgaca ggcttatgta ctccaaaaac tcataactcct actcctcgac 180
gatgggatat ggcagctaca gtactcctgg acttgactca ggcgggtggtg ctgcattggg 240
tgttgggaaa gccgaggaag atgccatctc aaattttagg gctgagattc gaggtgtcaa 300
gggggctctg cttagtgcaa ggaactttcc ttcgggcagg agcgtgggtt tgaggtcttc 360
gtttgtgaga tgatgcattg gtagatggcc acggctatgg acaaggctgt gctcgtttta 420
tcatttttat actcccgact cgatgtctaa cgattacgcg tgtttctggg ttcaaacaca 480
gcctgggtata gtccgataac acaatagtat ctaattcgac gctgtctgcc gttatccttg 540
atthttgtcct agtagcattc ttatcgacga gtaggcattc catattctcc catctcatgc 600
agcaataata gggctattat ttgaatatcg caatattcca ctcgctgato tgtgcgccat 660
ataggggtga tgcccctcct catagcatat ttatttggtc gtgggtgagt atattacgtc 720
gacagtgtcg tttcatccgc gtaattcctc gggagcgcg atttttatat tgacgggatg 780
taaagctgcy gagccttaca caactgatgg cgacatgcta ccttcatttc aaatattcat 840
accttagcag cctggaccac cacactgcgt ccacccact aatcaagcca accatttatt 900
tctgcttata tcatgtagtg aaaaacgaga aaagcgaagc attaatataa cattgacaag 960
tgaagtagat atgtaaagaa aagatccggg caattattca ccagttgcc atcaatacat 1020
ttaccagaga atgcgaagaa tagccgcccc taatacatte ctcacgcatg gatactggca 1080
ctgggtataat tcactaatct aaggagtcac tttactcatg ctaatgagac gcttcacacc 1140
gacctgtaga tataagatta gcataagatg tttagcaaac gataggaaag tactatacca 1200
tccagttacc gcactcatca gtccgtgtcg tcatgatatc aatgtggatt gtacgagccg 1260
tctcgtagtc acgtgcctgg atggcgcggg cgagctgcac catgtcctga acggtattgg 1320
gcttgagaag gtcttcattg ttgaggtggt cgaagaggaa gtttagcctc cgctctgcgt 1380

```

catcgacctg agctttgaag gaggatgggg cccgagattt gacgcgctgc atgtcctcgg 1440
agaggatctc aaagataggg cgtgcctcgg cagggatgtg ggagcgggtca cccgggagcta 1500
tgaagatcag agatataact cgaataagga agtcaagtgc ttggactcac ggtatttttg 1560
aggcgcaggg ctggccttct ttacagaaga ggctgtgctt ggccgagatc cgcgctctg 1620
aggcgggtgg acttgctgga gtggcggctg catgggtggc ggctgtgctg gagcataagg 1680
gttggctgct agaggctgtg caggtggata aaagggcata gggagaagca gcagcctggg 1740
gagggggagg aacaggagcg cgcgcct 1767

<210> 2440
<211> 1153
<212> DNA
<213> *Aspergillus nidulans*

<400> 2440

aaacctcaat cccggtctag gccactggat aagaccatac cagcgacgtg ttctggctgc 60
ccggattgtc tgatcgatga cttcctgaca cgctgcagg tgtctacatg agcaagtaca 120
tccctccgaa agagtcttc ctcttcactt tcacggagcg gtgggaggag aatggactga 180
ccgagcacta ccgctgcaac atgagcccag acggcctgct ctgcagtgtc catgcttggt 240
ctctcctgcg cccatctatg tacaaattga tgtattgagt aggtgccgat taaatcgcca 300
tgtgtgatta gagacattcg agcaagctct ctaagcgcgt atcacactct cgactcgtca 360
aagtcagcag ctgacgtctc gcgcaaacac agtggcagag caggcgggct gcgacctctc 420
atggcaaacg tcaggatgga gagacgcagg tctctacacc tctggaacca ggttaatgat 480
tgctacaggt tttcctggcc ttgggcttct cgtgcttctt tctcaattga taggttgagt 540
acagaccttt tgagaatgtc gaagcgaatg accttgagg aatagacgta aacgcaggta 600
ccggttggtg ggtaattaac cacggtacgg gttctgactc ttggcccgtc actggcttta 660
tattgtctac aagaagcaga caaaaacagc catctccacc ctattgcaca tgtaagagag 720
ctgggttcgc ctcttactta ataggtttat ttctcaagat ctatataatg gctaagttga 780
atcttactct ttcacctccg ccaaggtagc gacagttgag agcaaaggct aattgggtgct 840
atggaagggt gcctaacgag tcaattgaag cgatagaag agaattggcat gcagaaacaa 900
gttggggcag actaggacta tcgtctatgc cccaaacccc agaactagcg acccctgcct 960

caacaatccc agccaaggat gatgcaatgc tattatggag atgaggcaaa gtttaagtta 1020
 cttgattgag tgcagcagcc aaggccatat ttaggcagtg cattgtatgc ccctatttgc 1080
 tgctgtcggg cgcgcacgcc atcccgttgt cggatttgct ctctcttgat ctaatctctt 1140
 gcaccgttgg agc 1153

<210> 2441
 <211> 3257
 <212> DNA
 <213> Aspergillus nidulans

<400> 2441

tctgccgggg agacggtagt ggttcgttat tcgtagagtt gctcgagacc cgggttgttt 60
 gggacgcttc cggccgggtcc attcccgggg atgtttccat tgcggaacac caacgaggca 120
 acggggaatt tcaaggaatt taagaagaca atagcggcaa gatcatggca ttccctgcaag 180
 caacgggggc agccgagtaa cgaaggacga acgaatcgag gcgaaaacga ggggacgata 240
 gacaagagcg agaaaagagc gtgggcgtaa cgaggtagc atgggaaacg gtgatgggaa 300
 tatgaaataa taaaagaaaa gcagtcagga gaacgagaat tagaattgct ctcgctgtcg 360
 tcgtcggagc ccagaccgtc gttaaattag tggttggtga gccacgcgta tccttaccgt 420
 ttcagctagt tcaggggccg atcggcagag agcaaggcgg aaatatcaat gtgacaagcg 480
 gcggtaattt gcgacagtta tccatccagg agataaaggt atgggatggt cgcaagcaat 540
 ctggtgtggt gtgggctgga gttggtgatg atgagaaagc aaggggaccg atgaagttac 600
 ggttgggagt ctaagcactg ttcagctgaa gtcgcgacta tcaaattaat ataattccgg 660
 cagatcaaag atactgaaga attatctgtg ttaaattggg ctgtcaactt tataacatgg 720
 tgaggtccta tttaaatgta caagaatcaa atcgcagtc taaaacacc gacaccaatg 780
 tacctcacia tataaacagt agtccaaaat gagcaatgaa gggaaatgag gatgccctgt 840
 ttatcagaaa cagcggcaga taatcactca aaatagaaat tcaggagaac aaatcataga 900
 atccaccag aaccagttc gggggatgca ctccaaaaca ggggcaagtc aactggtggt 960
 gtggtgcaga cgtggcatga atggcagtc gctattatcc tcccagtcgc cgaggatgcg 1020
 aagacttoga gtaaagacag tggcggaacg aggggtattat gatagagaaa atgagcgacg 1080
 aaagcgacga aagcgacgaa ctgggtataa cgcctaggac cgttttgtac agcaaaagaa 1140

aggccgtctc aaatcccggg ccatcggttg cgaaggcctt cagaccaccg ctggtagagt 1200
 acatcggaca gttgcttgac atgttccatg cctgggtactg actggccggg gagattcgcg 1260
 agctgtggct gtggattcgg ctcggtact gcagcagact gacgccgccg gtggcttttc 1320
 aggtgtgggt tgttctgtgc aagaaccaga cgaggccttt gtggggattc ggggtgtgga 1380
 ccctgtggga cgagacttga cagcttggga tgcgtgacct aagatccgtt agcacatgca 1440
 gtccagagaa ttaggggcag ttcgtttacc ttagcagttt ctcattagt gctcggagga 1500
 tgtggtatag gccttctgga tccaccattt ctaggtcact ccaagcctca gcaagacgag 1560
 aaatcgcttc ccgcttctct tgggtctccag tagttcccag aacctcctgg caagcgtgac 1620
 ctacagcctt gctgtatgct cgacgtccca gttgagcttc tttgctgttg gtttctgagt 1680
 atatagactt aggactcgca ttttcgtctc cggtaaagt gtatgaggag aatggatcct 1740
 cgcttggcga tttatcagac acgcgacgga attgacggac cgtggaaggg ctattgcca 1800
 atgtcaagtc cactcctagt ggttgcttaa caccgctgga ccgtcgcttc ggtcgccgca 1860
 gagacgggct gcggtcgggt gctggaatac ggccgacggc agtaccgttt gcgtacttct 1920
 gggttggtgg gctagagatg cgaagatttt ccaccatctc cgcagactca tcatatggag 1980
 ggtcatgaat gatggatccg ctgtctgaga catcagagtc ctctcgaaa ccatggtagg 2040
 tgctttgact gtgtcaacac ccagccgtca tcgtctgtga aatgtgtaat tgtattcctg 2100
 aatgagttag ctgcaggtt ttgcaacata tgaaagacac atacaaagat tccgcatagt 2160
 atttcacatt ccttgaaca ccacgtccac tgtcccagtc ctgcttcggg tgaataagct 2220
 cctgcagagc ctccgtcttc ccagcgttgc ggatgaactt gtgccttaga agttcctttg 2280
 cgctgggcct gcgttcggg tctttggtca agcactgcgc gataaagtct tttaaagcac 2340
 tgctgtagcc gtcaccctgt aaccgaggag ctggttcttt ggggatcagg aagagcacct 2400
 tcatcgggtg aatagcagca tgcggcgggt ctccattgat catctccata gcggtaatgc 2460
 ccagagacca gatatccgcc ttgtaatcgt acccagactg ttgaatcacc tctggtgcca 2520
 tccagaacgg agttccaacg aacgtattgc gttgagattt gatgttggtg agctgtgccg 2580
 caacgcaaaa gtccccagc ttcactttac cagtgtgaga aaggagaaca ttggccgctt 2640
 tgacgtcccg atgtattttg ctttactgt gcaggtaatc caaccaagt aacagctgtt 2700
 gacagacgat agcaacatgc gtttcgttaa aaacgcccgg ttttagctac atctcgttca 2760

gcccggcatct tcccaagcca gagtcgggtcg gttattacca agtcaagaca cgatccgccg 2820
cccagatact ccatcacaat ccacagttta tgtccccgga ggaagctagc atgataccga 2880
gtaacgtagg ggctcgcgca cgtcgccagg acggagatct cctgctgaat ctcttgata 2940
tcattcttcgc tcgactcgag atcgatctgg acgagcgtaa atcgtcaatt ggaatgcac 3000
agtaggcaag attcactcaa aactcacatg cttgatcgca acaatttccc cggtagactt 3060
gtcaatcgcc ttgtagacgg taccaaaact tccgcctatg cgacgaacgg ttagagaaa 3120
taattgggtcc aattgtgtcc tctccactca cttccaagct cctccatcat ctggtactgg 3180
ctcgccatgt tatcgcccat gggtcgcgac atatctgccg accctgaatt tttttggaat 3240
tgaagctttg gatggaa 3257

<210> 2442
<211> 3483
<212> DNA
<213> *Aspergillus nidulans*
<400> 2442

gttcaactcgc tggttttccc aagacaacaa attaaccocg tctcgggtgac ccgtcaagga 60
gggttcagta ccgagcgaaa cgttatttta tggcttgacc accgcgcagt caaggagact 120
gagctgatca atgctacagg gcacaagggt ctcaagtatg tcggcggcac catgtcgct 180
gagatggaaa tgcccaagat cctatggctc aagaaccaga tgccgccaga agtgtttgcc 240
gactgcaagt tctatgacct gggtgatgag ctaacacata ttgcgacggg cgaggagacg 300
agaagctact gtagtttgggt gtgtaagcag gggtatctgc cgagccaggt ggaagggagt 360
acgactgggt ggcaagggga ctttctagaa agcattggac ttggagagct tgctgcggat 420
gggtttgagc gtattggggg cgtgaatggg gaggtgagtc tctcaccoga tctatgcatg 480
gatgaacatg ttcgttaagg tagctttgct gatatcttcc agaccggcca gcacctcagc 540
gcaggcgagc gtgctgggag actctccgca cgcgcagcga aggagctcgg tctgccccct 600
gggattgccg tcggggctgg ggtgatcgat gcctatgcag ggtggattgg cactgtcggc 660
accaagatcg atggcggttg cgtagtgggc aatcacaaca gggcagacgc tttcaatcgt 720
ctcgccgcag tagcaggggac atcaacctgc cacatcgcca tgtcttcaa tccggttttc 780
gtccccggcg tatgggggtcc atatcgcgat accgtcttcc gtgggtgctg gatggccgaa 840

ggaggccagt ctgccacggg tcagctgctg aaacatgttc tcgacacca tcccgcacgc 900
 aaatctgcct ttgccgttgc tgctgaccgc gggttggata ttttttcgtt tctagacggc 960
 catctcgtcg cactagctgc gaaacagaac ctaccgtgta tcgccgctct cgcccgacac 1020
 ttctttcttct acggcgactt cttcgggaaac agatcacccc tggcgggaccc gaacatgacc 1080
 gggtcctgcg ttgggtctcac tgccgatacc tcgattgaca gcctgggcat acattactac 1140
 ggcacgctcg agttcatcgc actgcagacg agacaaatcg tcgagacgat gaacaaggct 1200
 gggcatgcta ttacctcgat ctttatgtct ggatcgcagt gtaagaatag gactctagtc 1260
 aaactcatcg ccacgggtgc aacatgcccg ttattgtccc gcgagccgcc acgtcgaggc 1320
 cgcggtgtgt catggagcag ccatgttggg cgtcaagggt tcttttctgg atgccccggg 1380
 gaagactgtg gacttgtggg atgtaattga acagacgagc aaaccggggg atgtctgtca 1440
 tccaacaacg gcggaatacg aaagggcact gcttgcgtca aagtatcaag tgtttctgga 1500
 ccaatgtaca cggcagcgcg agtatcgaga gatggtggac agggtagcct ttccgaatca 1560
 agtgtaggca tctatattcc acgacgtcgt gaaacgtgcc tgtctggccg agtacacccg 1620
 ggtactcgtg gataggtagg gtactacaat accctggagg agcatttctt cacctccac 1680
 ctgccaatcc tctttcttgt ctcaagtctca ccaggcaaag cctagttccc tctatttcat 1740
 catcaagcgg gctcatattg ccttcaatat ccgagatttc agttctttct tcgacagtct 1800
 agcctccact cactaagctg gcccgactac agtcaggttt cccgcgctaa atatttccgc 1860
 gggctcttct gctgggcttc atcaaaacct atgagcacca ctttgagctc agaagcattc 1920
 tcacttgtat gtcacagccc ctggtgagtt gaggtctctca acaccttctg gcttctcaaa 1980
 ccggccaagc aaggatctat ctgcgctgat gccaatcaag gaatatactc ttgagtacta 2040
 gcgctctctc ctccggagaa ctctcttcaa gctcaggtgc ctgagcttta ctgagcttgg 2100
 tttgggttgt caaaatatac gccatgcttc gaggtgcgtc taacacgtac cacagaaaac 2160
 aatctgaaag taagccatga tgggtcatga acgcaactca tcagtcggca gtgcgagcac 2220
 tgggcacctt tttagaggta catctccttt caggctctta agtccatgtt gaagctcgca 2280
 tgctgaggag cacagtgtac caaattgacc acggttggga accagcatcg aacggcactt 2340
 gtctggcgac gacgggttga gttccatatt tacgcgctt ccaattctac tacctatatt 2400
 tatagtatca tcatatgggc aggcctctac tgggcgcaaa caacctcacc gatatgtctt 2460

tgtcatcttc atcggtccga acctttaaca ctcttagtgc agtgggctat cagagtgcct 2520
 gtatgacgtc ttcgtccata gaggaatgac agacttagct gctagcaatc ctatcttggtg 2580
 gccttgagtc gatcacgctg ccaaacctcc aggggcatct cttgctcaaa ttcgtagaac 2640
 catttggcct ttccttaca cgttttcagg tcaaccagta cctgttaaga ttcttccgc 2700
 acaaatttca gcgtctgatg caggcgccga tggtaatata tacgggagga ccttatctag 2760
 gcatgtcaag atacgatacg gtcagatact ggcaaaattc acgcaacttt atgcattatg 2820
 tactggcact ggaccgtcta tcccaatatg ttatccctcc cttaaaccga ctatattgac 2880
 ccctagatat tcagactgcc ataacgccgt ggtcgtggca tgaccgaaaa cattgactct 2940
 agcactttcc aagagcagct acaaccaccg tcagttctct gccacaatt cagcctggac 3000
 tgaaatacat accaacagtg catttgctat cagtgtagta gccattgaca tagcaggtct 3060
 tgccatccca gttaatacgc tgccaggtgc taaacagcca ttagcatgtc atatccaacg 3120
 cattcaaaga taatagaccc agtaagctta ttaaattgtac gtaccagttg ccgttatagc 3180
 agtctccaga cttgtagcac ctaaactcgt agtacttgcc ggggatcaca gagtacgagg 3240
 ctggatagtc aaagccccgt ccggtgcggc agttgacctt ggaggaactc gagttgacga 3300
 tcttgcacac agtattggcg cgcttttcaa ggcccaaagc ttcaggggag atgtcgacgg 3360
 ggacaggggc ctcgaggggc tctgcctccg ccacggcccc tgccctcaggg gcaggcatgg 3420
 cgagggccag aaaggcgagg gcaagaactc cggcgacagt gaatttcatg gtgatcggat 3480
 tat 3483

<210> 2443
 <211> 2237
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2443

gcttgttcga gagcttttat gctccaggaa tgcgggagct gtgccatgct gtataactaag 60
 cacttgggaa gcgatatoca cgacgtcatc gggccgccc tgatgtcatt gttcttcaac 120
 caactttacc ccgagtaact tcatcaatgg cccaattggg ttcaaaaaag tgatcctctc 180
 tcgaagtttg accgtgagat tattgatccg ccactttcta cttcttcagt tgagattacg 240
 ctacaattca gggatatggg aatatacaca gtagtatctt ctgagtctgg ttgagtgtct 300

ggacatgctc tttagtaa at gaaacagtac ccttgattct agattcgatc ctttctgagc 360
tactctgtat ggcagctaag ctttaattcga ataagtctat cgcattcatg cgccgatcct 420
ccgttcagat catagcgctt ggcaaatgat accatgtaac tgtgacgaac ggtgggtcta 480
ggtcatagta tccagccatc caagccatta ttacataaac caagtcttat cttcatgtct 540
ttgcttcctt cgggcctcgt ctcttcttgg ccgtcgacc gtcattctct ctactaccct 600
ggccgttctc tgcagcctct tctgggtcag caccecgctt ggccgctttg cgcgtcccct 660
tgcccttcg cggggtggt aaagcagaca gatcctgaga gctaggatcg gtttccacat 720
caactagctc tgcgtcctga tcagctccag cctcccgtcg aaggcggcta aaagcctttt 780
ccatcctgct ctggccaccg gaccggacgc gtggtgcgaa tgctcctgct ccttgaggtc 840
cactgaagaa actggtgata ttactctggg tcccctcctg ttctctctga ttgatgtcac 900
gaatcacggg cagaggact tcactcagttc gttcctgact ccagccaata gtcgccatca 960
ggaagtctcg gattccatgt agatcaggca cgccccactg aaagggtgaa gggtcctctg 1020
ccgcttcggg ctgaggtaa gctgcatcga ctgcgcgctc cgggaaggta ggcggtagaa 1080
aaatcttcgt agcctgtttc ctgaactttt tgtagaaaagc cgcattggctg ctgttcgaca 1140
tatctgcccc tgtctgtacc tgcgtccacc agtcccggaa ttctcaagg ctggagaatt 1200
cggtcagaat ctccagcgt gtcactggtc ctatgccggg aattccttct gtatagtcgc 1260
tccaagaag atgtgcgaag ctaatcagtt tccgtcgatg gagagcatac tcttctcca 1320
gatccgcagt gagataacac tcaacgtatt tgctctggtt gaacataatt ttgtagactc 1380
gggtgccacc gaacaggaag atatcactgt catccgtgat aatgccgtcc acaagtcta 1440
acgagaccag ttccgcgcat tgtggcctcc gcctccatgg gcgctgtgat atacggtagt 1500
ccgaacaatc tcaaaagctg ctgacactct gtaatcatga tttgcgtaac ctgcgcggcg 1560
tctctgoggt ctttcttctg ctgcgagcgc agctgtttga gttcttggtc gtagtcgaat 1620
gtgccttcac tatgtggggc tgagttcaag gttgctgcaa acctaacatg ttctcgtctt 1680
cggcagcgag ctgtctcatg agctcttcgt cttccggatc cgagaagcct tcacgtcga 1740
tatcaacagc ttgagcgagc ccaacctcat gaagcgcact gggcacttgc tgtattggaa 1800
catcttcgaa ttctggcgat aatcgtccag tcttctcgcc atcaccgacg tgttcttcg 1860
ctggcaggtg cactcttca aactctagt atcgttcctt ttctgcagcg gggacggctt 1920

ccaccggttg cacagtgcg ttttcaaatt ccggagaact agaccgcacg gattcctcac 1980
 cgtcagtctg caccgattcg gctacgtctc catcctttgc aactttggct tcaagagcta 2040
 cagaggctct gtgatccggc gactctgggt ttgggtggctc gggagggtgt tgaatctctt 2100
 tcagttcagc tgggtggggc ggcgcagttt ccttatcagc ctcaggcgct gggtaagat 2160
 cgatgacctt gctctcgggg aatttgtcac gtctattaac taggtgatcg atgattanca 2220
 aaaataaatg gcctggt 2237

<210> 2444
 <211> 1858
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2444

atcgcaacac ggaatttggg aaaacgatgc aggagacatt aagctgttaa aggacgctgt 60
 tgcactgggtg gttttcgggc cgtatgagcc ttggctgctg ccgcagaccg agaggttctt 120
 tcctctcgct gagcaggggt gattcacggg gacgaagggt tttgagaagc tgacggagaa 180
 gctcttgttt gagaatgatc ctgggggtatg tgtctattga ctattgaaag agcatattgc 240
 taacaggctg aaggatgaga gattgcgaag aacagtcttt ggttacgagc ttcgatggaa 300
 ggatgaatta cgatagacat gataccttag attcgcttgg ctggatagac atcgtcaatt 360
 acataaatat tccctcccgt ctgacttgac catttcgaag tgctgttaaa tatgtcacgg 420
 ataaaccacg tgcgcagatt agacatcaga tagatagaag gaatgacctc atattattca 480
 aatctctgcc agttcagttg gcaaagtgca agagcctcta taaatcacac ggaaggcggt 540
 caaacatcaa aactccgcca tccccgctca aaagttacag caaatatcc cagcccctca 600
 ttcaaaatat tcatcagcaa tcatgccagt acgtcgcaac ccaataagat ccacactcat 660
 caatactaac aaagtgcctt tttttctcag ctcatagttt taacggctac cctgctcggg 720
 cctcagctac ccgccaaca acttgcaacg cgccttgaag aaatccaacc caactagtcg 780
 ccaacgcgat aatccctcct tcgaaatcga aatacaagat ccacattgtc tcaacgcacg 840
 ataatgtcaa ctaccgcgg acagtatacg acaccgcgcg cacagagaag gaggcgcgcg 900
 gagttgcata tacaagggt aaacgcagtg tgggaagaga tagttttgtg attctagatg 960
 gaatgaacta tatcaagggg taccgatacc aactttggtg tgaggcaaag gcgttgggta 1020

caacgtgctg tgttgtatgc tcccgctttt cccaatttcg atatgagggt ggtcaaagtg 1080
 ctgacggctt cttgctaggt ccacgttggg acgccggttg atcaatgtat tgcgatcaac 1140
 gaagcgcgac tgcggaaaaa gaacgcctcc cgaccggacg gctccgcgaa agagagtaga 1200
 gacgagaacc caaagccagc cactaacctt tcctcctcac ccgactccac ctcatccaca 1260
 gaaagcaaag atgaaagcga cccctaccct ccggacctcc tcaacaacct catcttccgc 1320
 tacgaagaac cttccatgaa cagtcgttgg gacaagcctc tcttcacggt cccctacacc 1380
 gacgctgagc caccaatcgc cgaaatctgg accgcgctga ccggcatccc gcaccagaa 1440
 acacaggaga aagaaaacac aatatcagaa ctgcgagcct ccctaacctc aacaacaatc 1500
 tccccttctt ccgcgcgcag tacaacaacg acaaccccag gggcgtcacg aggcggactc 1560
 tccagtagac cgcgcgtcgc gataaagccg caccaggcca ccgtcgcccc cgcaacagcg 1620
 gactcctcag cctctacaa tatggaaaaa cgcacgtcag caatcgttca agcaatccgt 1680
 tcctttccgc tcgccaacct ctccgcaaaa gctgcctcgc catcctccaa aacacacaca 1740
 gcctccgccc ttgacaacga agatttcacc cgccaagaag aaggaatctg catccccgtt 1800
 ccagactcct caacagccgg tattegtacc ggcacacatc gcctcgggca ggttaccg 1858

<210> 2445
 <211> 468
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2445

tgacattcgc catactacaa ggggaacgta ctcttgcgtg aagacattgc cagcaacgaa 60
 acacgccagc aggtcgtctg ttccaatcag tccgcacgta cctacgataa agagctaaaa 120
 agggtcagtc tcctcctgtg ggctcgtgac gtagttactt accgcaagag caatggcaaa 180
 gacaaggaag ctctctcggt ccacgtagtg cttctcttcc gccagtgaa gcaattccct 240
 agaaaccag ccaacagtga ctccgtagcc aacactcagc aaaatcgtgt aggcccaagt 300
 ctcataaaac cacaaccca tggctttccc tgcacctcca ctgaaaccct cgccatccat 360
 gccaatatac tggatgaggt agagggcaaa gaaaagaaac ggatagccaa gcccgtcatt 420
 cgcccccgac tcagcaatga tgatgcgctg aacggctgag gaacattt 468

<210> 2446
 <211> 754
 <212> DNA
 <213> Aspergillus nidulans

<400> 2446

```

aaactcctgc caatattcga ctatgtagcg ggcgaccgag ccctcctccc gcgccgaagc   60
atacatcagc ggcttcaaag ccaagggcac cgaaaatcaa caagagagtt gtcaaagaag  120
atgttttcag tgccgtaaac catcaccgaa gcatgggacc accaagtttc caccatgagc  180
attacgacgt aaacactgga ttggacgaag acgagtcgat cgagcaggca accctagagt  240
cttcatctat gatagccgat gaagacatga tctcaatgtc ccaaaatggg ccataactcg  300
caagaaaacg caagcgcgga atcaacgaag tagctgccat gtcgcttagc gagcaggaac  360
acattctcta tggagatcaa cttctagact atttcatgac tgcgggagag caccagaggc  420
aacgcgcatt ccacctcccc agcctccgcg taacttccag gtggatcgcc cgattgccaa  480
ttcaggtaat ccggccttgc attgggcatg cgcaatgggt gcccttgaaa ttgtcaaaga  540
tttgctgcca aggggaccaa atatgaaagc cctgtctatt catgaagaga cccactggg  600
ccggcttggt ctttttcgaa caactatgag aagaggacgt ttccagcact gttagacctg  660
cttctagaca cgatctccct cacggattgg tttggtgcta cattgttcca aaacataacg  720
ctagcgacga aaagcaaggg ataatggaaa agct                                     754

```

<210> 2447
 <211> 1949
 <212> DNA
 <213> Aspergillus nidulans

<400> 2447

```

ggcggatatga gcttcgcaag acttgtgaca catctgctg gccctatcta caagattctt   60
ggagtgatca agacagattc aagtttcaaa aggacataga aggaacgtat gacaggatca  120
ggatgcagat cgcgcaacta aaacagaaat cccgggaact tatttatctg gtaactcaaa  180
ccctcactct tatgcctacc ttgggagcta ataatttggc caggaattta gcctgacatc  240
aatcgccgag gctcagaagt ctacatccat gaatcgagc atgaagcgcc ttagttggat  300
tactgtaaga ccgccctctg gttcatcttg cttecgctttc taatagagcc gacagtttgt  360
gtttctcccg ctgatgtttg ttgcggtatt atctcaccgt aggcggcttt caattgatat  420

```


gagctgactt tcggtccaga ctatTTTTtg aatgaacgtg gatcttcttg agtctaattcc 480
tgcttggtgg ttatacatgt tcttcgcact cggcaccgct gctgtgacga tttctgtgtg 540
gatactcttc aagaggaacc caaaggatatg gtgtgacttg aaaaccatga tcgaatctcg 600
gctgacattt ggtgctttta gttagatagc gtagaaagcc actttcaatg gttactccgc 660
aagcaaaaac ttcgggatga agagttaggt attgcggaga ggagaaggag aaccaggcaa 720
ttcccagggt ctgggaaaaa gcggtcatga gcatctccag ctatgccgct ctgggtgtac 780
aaaagcagga taaaccgaaa taaatgcact taaagctacc aggcacctct tgtgtatgcc 840
gcgagataga gcgttggtcg agctaggctc ccgctgcatt gacgactgat tcttgagatt 900
aggcgatatt tgtagtcaga atattgtggc ttattgaaac gggaagttga acagaaggtc 960
aggggaagat atgcttggtta taagctatac ccttctatct gtgcaagggt tgttgtgaag 1020
gagaatggtg tagttagtgt gtgcaggtag aattagggag cacgttaagc aagtgtgtgc 1080
ctgtgcaagg cctttaatta gccatgttct taagaaggat atcttccaca aggaacttat 1140
aataagtccg tgaaggtaag tatcctctct agaagtaata tatgggccag agcggaacgc 1200
ctagtttatg ctataggcat cgaattatta atcttgatat agtataccgc cacgtctata 1260
tacagctagc aagttaagac aagagccgca cggatggaaa tcaacttctg acagtagact 1320
cattacttac attgattacc gacacttctt ctgttgctg tcaattctat ttcgatgggt 1380
cggtaagtct tcaactccct cccttataat actggcctgc tgcgctggga tcaagccgct 1440
taccgcgggc aatccgatat gacgcattgc ttggagcatc atcagccaca tcacgatgct 1500
atcaccagga ccttaagggg cccctgggc ccagggccca ttcgagaacg ttcgactgc 1560
gggcgcctcc acatcggtgc cggattgccg aaacatcccc agtgatctat ctggactcca 1620
gactgcccg cttacgggt ctcttttccc ctcttctgct tcaattacgg tccatagatt 1680
ttctgcacca tataaatata ttttagtcac gaatatcaag cagtcgcgct cgcctgaaca 1740
tctcattcag cactcattgg cgggtgaatc aacgcgaaac cagcttggac aactgtgggt 1800
acaaatatgg gccgatgacc tggagacatg catggcctcc gacagaggtc tcagatgcag 1860
ctccagctga tatgcggtgt ggaagacacg aggtgcctgc tgtcaaaggg gcgcatgcct 1920
agtcacgttg ttgcttgctt acctgtcga 1949

<210> 2448
 <211> 1842
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2448

```

cattgattag ctgtacaatg ggaggtgacc tacatagcag ctctgttggc caagctgcgg 60
agagcagagg gcaggcggcc ccgagtcctgt gaaagaagca ttgtcgtggg tccgataaca 120
gctgactgtt tttgggaata cggaccacgc caggagctta ttagggagaa gaaaacaaga 180
aaactctcgg agttcgaagc gagcaaagag tcagaaaaga agacaggaag tgccggacat 240
ctgaagttct ccgcaggctc gcagcgaagt cggggccgga gttggccatc acttccccgg 300
tggccaatca cccccgatg ttagtaagag gatccacaca gagcttatgg cttgttttagg 360
gtcgatctta tatatgctag actatgctgg actctagcgt atagggctat atatacttga 420
atgtcagagg agttataatt ctaagggtat aacatctgat ctagccaagc ctcataaagc 480
attcggcatt ctgcgccatc tggtaatcat gcatgcgtca tacgtagcat aaacacagga 540
aacaagtaaa aaagaaaagt cagagcaaaa gaagtaagtt acagaaagaa gacagagaga 600
ccagctcagg gcacttcttt atcgccctgc ttcaaccgc caggcacgtc aatggcgctc 660
ttcacccact ccatggccgc gatctcttca aggctcttgc gttttgtgtt tcgtttcagg 720
agcgactcaa cacactcccg cgcgccttca agaccacggc ctttctcggg atccactca 780
cgtcgtctgt ctgctaccg gtaccaggac cattcgcacc gtgctatacg gtgaggagtt 840
cgggctcgga gtttcgcagg atcgccctcg gttccaggga gggcgtcgaa aggaagtctg 900
ctctccatca tcgcatacag caaaactcca agcgcccagc cgtcggtgga ggggccatcg 960
tactgctggc ccatcagaat ctctggtgct gcgtagtcct cgcttccgca gggggtttgg 1020
agaagagggc tctcaggagg ttcaggtata cgtcgtgaga ggcccaggtc gctcaaggtc 1080
acaactgcac ggtcataagt acgccaatcg gtaatctttt gcagagcttc tttgggaaga 1140
ttgacgagaa cgtctggtag ccatcagtc gctttgttct agcaggaagg cgcggggagc 1200
ttactctcga gtttgagatc acgatgcact acataatgct cgtgcaaata gcgtacagca 1260
gccaccagct cggcaaaaat tcgtcggatg agccccggag tcaggggtct ggtattgttc 1320
gagacgactt cgaacaagtc gccgcctggg cagtagtcaa gaaccaggag agcgcgtttt 1380
tcgtcgtctg caaaagcctt gagttgtaca agggatggat gattcaaaga cttgaggatt 1440

```

tcgacctcac gtttcagggg cacctccagt cgctcctcat cggctccacc cgctggcccg 1500
 tgttcaatga tctttattgc aactagcttc tgggtcgagg atacggcgtc agagtgacca 1560
 tgatcagagt ccgccccttc cggttcgaca cgaacagcca acgataacctg gctgaaagta 1620
 ccatgaccga gttgtcggag tttgcgatac agtcgggggtt gctgggtccg aatggagcgc 1680
 accgaatagt actcctccgt accatgcgcg tcggaatgat ggatgacgac aggttcattt 1740
 tcgcttacac cgaaccacg tgttcgcgga ggcaaggcg ggcaaccgt aggtaaagca 1800
 attcctcgat ggatcgcgag atattgctcc cgatgcaggt tg 1842

<210> 2449
 <211> 1856
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2449
 cgagaagaat cttatcctga tcgggtccta gctataatga gaagttgagg agctacaaaa 60
 atggattggc agaagataga cgacacgctg agaagtgtga cctctgcata aaacaatatt 120
 acatgggaaa aatctggctt atggaacaac tcaaggagaa ctacgacgat gaagacatcg 180
 aaaagttctc tcgcatgcta gacgagtgtg atattaaacg aataacgagg aacctggcga 240
 ctgcgacggc taccttaaga gcattaccag cggatcagat tgggtgcat gtgcttgacc 300
 gagcgctact actgtctatt tttgagactc tgagttgcga cgctatgctg cgcaatgaca 360
 gcttgttgac ggaacacttc gacgagcctt tcaggttgat tcagacaaaa cgtactctca 420
 aggtttcaga ttacatccca gctgtcaccg gggtttctctt tagtacaaat catagtcgca 480
 gtcactgggc cgttcattct tggatgcggt accagcgagc tctactgcg gcggagtttg 540
 actgggcaat caaagaggga ctcttgatg cacttagggc agcatctcag cagccggtac 600
 agatagctgc cattcagcga ctttggcgtg gcatgcagtt cattgccaaa agattggaca 660
 aggaacaaat aacacacaac ttacgtgctt tggaaatcga cccctgtcgc ctgtctgtcg 720
 aacacctcgc gttccaaaca gctagtctgc gatggactct caacaccatt cagatctttc 780
 tagaaaagac tcctggagat ttctgggatg cgatgcaaac aatatcgcca caggcaattg 840
 ttgaggttgt tttctataac cccaactcg agtccttctt catggaagct accgaaggtc 900
 aggcataatga gaaattggct atgaaggata tgctctcatg ggtcaaccg tttatgtcgt 960

cgttgaaagg gccgcaccaa cctacagcat gcaggctcgt agtctatcaa ctcatcgtatc 1020
 gactgcagga tacacgtttt ccaaacttag cgaggtagca ctgctttgag gtcggtttgg 1080
 ttagcctgct ccatacgctt cgcagtttta ccgaccatga atcgtcaaga gaatcagtag 1140
 cacgtgtcgt tctctctgag acattaggag ttgtgagcga atacattaac acaatcctga 1200
 agcctccgca gttcaatgtc gagcaggggc gacagcgtgc aataaaatca ctctgcatgg 1260
 atgtcattcg caacacatta gctcttgagt gtcagtctct gaagagtgat tatgaagtta 1320
 tctcaagca tggttccctc cagcatgggtg tgagcacata ttcctcttct atttgggatg 1380
 ccgttatcat gcacctccat gagaatgatt tagctctttc gacatccgcc cttctaggaa 1440
 ttctaccgct ggtcgggtcta gagaaattct ccttgaaaga ggggacaaag ccggaaaaga 1500
 cacactttaa cactatatac ggtcatctta ctacatctc gtgccagatc attgaaaggt 1560
 tggccgattt caaaccagaa catcttgatg aacttttcaa gagtcaggat actggcagtg 1620
 ctcttggtgc tactctcttc gcagcggacc acaataccta tcaagccgct gtagacctca 1680
 tcaagaatgt tagcggccag tctgctcgga gagacgcgat ctcccacttg ctacagtctt 1740
 tcttcactac cacgttgtag gggctcagct ggtccttccg acggatttct aatatgaaga 1800
 cgtttgcctc ggcaccgaga atgatacaca ccggtactga tattgtggat cataga 1856

<210> 2450
 <211> 1378
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2450

cttccagatt ctggcaggct ataccggcg aaatttgagt cagtattttt ttc t 60
 ggcgataatt tttttttatc taaccaatct cttctcgcac aggaccggc a 120
 ccgacatgac tggtagctga tgccgcaaac gccgtcaggc ccca gga tccgctatgt 180
 gattgactac tactctgggc cccagagacc gaccggagag cctgttttct accttgacat 240
 tcggcctgct ttggattcgc ccaccgccgc tgccgaacga ctgctgagat ggggatctga 300
 cgtctgggat cgcgcaagcg gaggcgctgt ccgtgacaat gacaaaaaat aacgaaaatc 360
 gcaccgtctg accagtgtgc acggtgctc aggaactaaa tacactggga gctggatagc 420
 tcttcttggg ttcaatggtc ccgaagtagc ctttcagtc gccgttggaa ttgcattct 480

ccactcttga cgccgggaat atacgaaaaa catggacatc tgactagcta ctgtttatat 540
 taaaagggttc cctcgtgttt cgcatttggc attaacattg tccacttccc ggctgcgatg 600
 gttttatcgg catatgtggt tggagtcgag gttccagttt gtggtgcttc ttaattagtc 660
 gaagcgggttc attaccttca tatatgtata atagatgtac gatataccat tagcttcatc 720
 tcgcatcttc gagcctaatt ctatggcgtg tataggggta tgggggctgt gcttgccgtg 780
 tggattgggg agtcaccaa atctattaca gagtacctgt aaaccgttaa atgcaattat 840
 tagcactttg ttatcaattc gcatcgtttg ggcattgaac caagtgatca tggcccgcga 900
 caccactaac caactgtaga tcctttacac agcaatcacc tgccaatca tactaaacgg 960
 cgacacccaa gacagagccc ccctgccaaa caagttcgct gttctcaatg gatcctcagc 1020
 cgtcccgcag acttgactca aactagctag ttcccgcagg tcttctcaa cttattcagt 1080
 ccgaacatcc tcgtcatgac ggcatgtgag agaccagacc aggccagcc acccatgaac 1140
 aaccagataa tccagctttt gttcccctcc caaatccagc tctttcgccc cttggcccaa 1200
 gggcagagcc aacgccacgg ggcaaacccc gataaaactt ggtccaccac cctcttggca 1260
 taagcagagt gaggcattgg ttcgtcctgg ctgtgtgtga cccgaccagg atactggtct 1320
 tcaatcggag catagatcga gttgggtgcc acaatgcgct gtgtgcgtgc aatgcgtg 1378

<210> 2451
 <211> 2387
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2451

aaccaagctg tagccgcctc ttgttcgac atttcttggc actgtctcaa cgcaaactg 60
 cagctgcgga cgagcttgca ctgttctgg acgatccgca tttaaactgt ccaggtgcag 120
 ggaattatct tcgactagct gagcgttctt cgtctacaat ggtccattc caaacacggc 180
 ctgcgcagtt tcacctcatt atacgagcct tggaacttgg ggttgcttct ccggaagaga 240
 tcggtgcgat catagcccgc tggtcagatt ggagaaaatc ctgttcggat tctcaaaaag 300
 ccaaacgcaa gctgttaaaa atatatcgcg cgatgtggga cgccattggc aagtgtgctg 360
 tttatggaca tcgagatatg gaccagtctc ttgttcagac ttggcttggg gtctgcttag 420
 aagagggcac tgtgggctat cttcgactag ccacgagtat tttattggct accgaatatg 480

ggatgtcatt atgcagttca tggctgccc agttegtcgc tagattactt cgcgactcca 540
 actattcact cccgggcgct gacagggacg tcatcataga aagcttaaag cccttcgata 600
 tcgacatcat ctgcaattcg ctgatttgcg gcactgaggt tttaatctct tcccagaaca 660
 cgcgccttct cagaagatgg gggaagtgc tagctaagct tcatgatgca tctagaatta 720
 ccttgtctaa agcctgggtt caaatacgag agcagcctga ttcattggcg aagcgtcaac 780
 tgattttgca gcgcttttgg atgtgcaca caatgaggag attctcccag agacgtgctt 840
 cccaagtac taatcagtc accaagcgtc tatatagact ttacgagtc tcaagaagag 900
 ttccgagaag aaatggccaa atcaaaatcg acctctggac cagcctagtc cagcacatat 960
 ctgctttgaa gatacctttc aacctggaag caatggccga cgacctgca actggaaagc 1020
 ccatgaccaa cactatgagg aaacgcctcc gacagttcca aaatgaacca ctatctttct 1080
 ccgacttatt cgcaaataca caaacttaca acgcctcccg ccacctcttc ttcaacaatt 1140
 tcgacaacca aatccgcaa gtcgacgtcg caagccccga cttccgcctc tggggcattc 1200
 aaatcgccag aaccggcaac tcccagcca tctggtctgt cctccgtctt ctgcgcgccc 1260
 atacccccct caagattgcc ttatctagag catggccact tccggcccc gcagatggag 1320
 ttattgtccg ctacaacca cgtcccaggt cagcaggaac gccggacccc cacgatgcgt 1380
 tggacatggt ccattctcta gctgcttctt ttgctgtgc aaaacaactt tcgccccagc 1440
 gggcgatcg gcttgctcgt tggctttacc tctttcttct cagacacggt gcgcctattc 1500
 agacgcctat tgcgcgcgct ttgtatcag cgggtgttgt gagatttcgc caggagaagg 1560
 ggtatatctc tccaattcag tatgactata tttggggtat tgtggagcag acggaggggc 1620
 gggaaatgt gcgggctttg agatctcgaa cactgtacga atgagccagt gtgaagggtc 1680
 acagaatttc agttgtttgt atcatataga gggagcgaca cttattggct ctcgatatcc 1740
 tacatttcta tataaatttg gacggtaact acgcttgaat agagacatta tgtacttgat 1800
 aacagtttcc catggtcatt caatagtagg gaagttcttg cgttactcca ttagaaaagg 1860
 ttcgctcgat tatcaaagt cagctctatc taggggtcca cttccatcaa attaggggtc 1920
 ccagagatct tcttaacggg cacatatttc ctgagatcct ccttggaana cactttttcg 1980
 ttcaagtatg cgggaatgcc cttggggaag ccggaggtcc ttttcttttg accaccttgg 2040
 tgggcctatg ttgttccgag aagtagcgtg tcttattctt ttaataacca acccttgcac 2100

tgtttccaga accagtcggt aaaatccgc cttgatgggt ctaccccagg ggatggcttc 2160
 cttttgtaaa attgggtttcc gttaatctaa caacattttg gtgggggtcct ttctctttcc 2220
 atagggggct tgtttactgc gccttaacgg gaagcctatc tggggccccc cactccctt 2280
 gcccatcccc tttggaaagg tttattatgc acttctcctg ggccgctaaa gattaattct 2340
 tttatgtctc atatttttca tctccctcac tacctcctta aacttat 2387

<210> 2452
 <211> 1600
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2452

tctccttgat tttctctggt tgaggcatga gatcccaaat cttgatggag ttaagcatct 60
 cggcggcctt cttccagtca ccggcagcaa ggaacttagc actcataatg acgccatcac 120
 ggggtgttctc tgcagggcca gtgaagacct ggcgctcatt gtagtcgagc atgcggcgga 180
 aggtcttgga aatgacgcga cgtttcattt cgggagacga tgaggtttgg gccatcagag 240
 gaacctcgag gaacatacta gaagtgaggt agatgcactc gagcagctcg aggttgatgt 300
 gcatgtggaa ggggagttgg cgttggcgct cgagacgctc ctgttcaggg gagacggtgg 360
 agtaacgctg caggatgata ccctgggcga gaagctcctt ttggcgaccg tgccgcaaatt 420
 ttccgagagg gtgttctgag cctcgtaaatt gagaccagcg cggaaagcac acaaaccaat 480
 ctgaaccaac gtctgttga agaggatctg agagctcacg tcgaaattgg caatgttctc 540
 ggacaagtgg gacatgagca tcaggctcgc agcacggtag tactggtcgt ggagagcaag 600
 gaagtagatc tgggcgagca tagcacgcgc tcgaaggata ccgtcgctgt tcctgaacag 660
 gtagttgcaa agcgtctgca cgaggggtctg ggcatcactg ttgccgcgag ttgtgataga 720
 ggtctccagc tcggagggaa gggccttata ggtgcctctt tccagaattg taataacctg 780
 ggaaggcttg aagtagatat gctcgagtct cctcatcacc actcggttaa gactatcctg 840
 gcgtagttcc gtcttttcca gctttgtgag gccttcaacg tagatctggg tccgcacaag 900
 gttggtatac agctgtttct catcacttag gcgttcaatg tactcggcgg tgtgggggtc 960
 aatatgttgt agagacctcg tgagctcatc atccagtctc tcaacgtaag aaacgatact 1020
 gccagggata tagaaagtct cgccagcagc aacctgaggc tgcttctcat cgtcctccca 1080

ttctctggca ccttcaactga caacatagtt ggcctccttc tcgagaacgg aaagcaggggt 1140
 agacaattct tgctcagctg ccttccattg ctgcacgctc atgtacgcag cggtagatgt 1200
 ggtagaaagg tcgaaacgtg tggagatgag agtgaggtag acacggatgc gctggtaagg 1260
 cgtctggggc acctccagga gcttctccat ggtcttaatc tgctcgagac ggtcgggtatt 1320
 cttcttttct cgcgactcga cgataacacg cagatgcttc agaatactct cgggcgtgta 1380
 ctgaaggggtc tttcctcgga caacggtctc aaaaccatcg tcgtctccag caacagcgac 1440
 aggcgcctcg acgcgctcca acttgctcag ccgaggggca gcgatggcag gcttcttctc 1500
 ttctcttcca tcgtctcca ttagctatc cttgtccgct cgatatttct caatctgcgc 1560
 acgatattcc ttgttgttct tcttgatctt ctgcttgatg 1600

<210> 2453
 <211> 1873
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2453

attgttaaag gtgtagagag catgttccga gcataagcaa gcggcattgt gtcgcccctt 60
 ctcaaggatt tgccacatg cggggttttg tttctgggc tggcgcgttc gccacgggtg 120
 acagcgggga gggagattgg cgggccacga tactgatgat cggagcggtc tgcccttgaa 180
 caggcggatc cagattccta gactgtagtc aatattcaaa attcttaaga acgagagaag 240
 gcattactac cgtatctgtc gacgcgtatt cgcggcatcg tcacggtcga gagaagacag 300
 aaaaagtgtc gccttgtcac agagacatgg gcttggcgcc aaggaaacggc tgagagcagc 360
 cctatgtggg aggagtggag agaattgagg ggtcggcatg gcggtatgat caagtggaat 420
 caagcataaa tatatgaatg gaccgggaa taccatctcg agggcgggtt tagtttaccg 480
 gtctagcgca gatggggtga atgttatgga agggaggcgg tatagacaag atatacttct 540
 gcccgctcga acagtaacgt atataataga agagatccca atcataacag atacttatct 600
 ctttctctgc ggctacaccg tgtatatgat gccagtcgac cccttgagac actgtctaag 660
 gctaagaata ctaaaatgtt gaaaactcca gtcgctagct agcgtgtaat cagttctatg 720
 ctacagatgc acgttttcag catcccaatc tccaccttca tcacccacgc cacacaagat 780
 tcaaggaatc aaccgcccc aatgatcaacct cttcaccacc aggcagttga ctgaggacct 840

ctacggggct ctccagcttc agatggaccc tcgtctcttg atcaccggcg gcctcccact 900
ggacacttgc aagattatct ttgcccaagg ctaccttggc agagacactt tcaactcagcc 960
tcaacctagg cttgaagcgg attttcgcac accccggctt gacgggcgtt agaccgacca 1020
gctcggcaca gtactcgtag atcggcacgc tccccacgc atggcagtc gagcgttggc 1080
ggacgtcgtc ctcttccac gtagtgagat tctccgctaa catcttgcgg tacgggttcc 1140
aggcctcgtt tctccaaaag gattcgtaca tctcgtctcc ggctgcggag aaggcacgca 1200
gcgcgtagaa gcgcatcatg tagctgcac tggagaatcg ttcgtccgcg aacgactgct 1260
tgagcagtcg ggagcattcg tctggaagag cggctccgga gaggatggcg aacacttgag 1320
tgtgtgcga gtatgcacg tcacctgata gatcggccgt ggagtctgtg aaataatgcc 1380
cgctcgtagca atggcgccgg actgcctct gcaacgagac cgcgcgcgcc tcatattccg 1440
cagcgtaacc aggccttccg agatcccgta ctaacttcgc tgttctctgt aggacgtatg 1500
catacagaag actgaaataa gtatgccgat ttgatcttct gccggacgtc ggcactccct 1560
tatctgggtg ctctgtctgt gcacccag tagtgacca gtcaacgtac tgcatacat 1620
cttcgggaag tccgctgacg agaccgagct gatccacatt gctctcaaag aattcgagga 1680
caccgtcgat cctcggtagg aacgaacgcg tgtacgtct gtccccaag aagaggaaat 1740
ggctctgaac ttgcaggatc cagtacagag agaagccgc tataatttgc gggacgtgcg 1800
aggggaaccg cgactgcgtg agcccctcag atgttatcga cgctgcatag tttgtgattg 1860
cctgccgcct tta 1873

<210> 2454
<211> 1571
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 2454

ggctctatacg gaggaagaag accgattcct tcttgtcatg ttagacaagt atggcgttga 60
aggcgaaggc tgtacgaaaa gattcgcgag gaagtccgcg agtcccctct cttccgcttt 120
gattggttct tctcagccg gactcctgtg gaaattggcc gccgctgtac gacgtcctc 180
aacacaatcg ccaaagagtt cgaaccggac ggcaagaatg gtgatggaaa gggacgcggc 240

cgcgaccgag aggacgacga acttgacaat gaagacgacg ttccagctaa gaagaagacc 300
 aagggcgccg tggtaagtga tgtttgtcta aagttgtttc gctcatgttc aactaataaa 360
 caaatagaac aagcaagtca aagccgtcaa gggcagcaaa ggaaactccg cctccacgtc 420
 tcgagcctct tcagccaacc ctcccaagtc gcgcgggcga aagaagtga atccactcc 480
 agcgtgagag cacagtgcgc taagcactca atcaactacc ttagcataac ataacatcta 540
 tcttgtacta ttgtatggtg attttggcga aatttgtaga ggcattgatga aagaccaaga 600
 gcctggagtg tttgttctgg tcctgggtcc gtcctggatg gtggtttgcg ttggcttgtt 660
 attatgaata tcggttgccg cggttgactac ggtagaaag tcaactggcta ctttaatacta 720
 cttattttca gttcttgata attggggcta ccaactagct tgttttcgta tgggtttttc 780
 ggagtccaat cggttcggcc taatgtcacg gaatactatc ataacaattt tattgaatat 840
 acatgagcgt tgaaacctaa atattcattt cgcctaaata tcacactaga tgatgataat 900
 acagaactca tgagccaaaa attagggtcg cctgaagaga gccactgtgc ctactaaccg 960
 gtttagtaat agaacaatgt acattgatga tttggcatat atacgtaaca atttgatcca 1020
 gaaaccctg tgagaagatc cccaacaatt ggtacacatt agtcatatgt cgatagaggt 1080
 gaaaccaact gaatcatgat tttagggagc gacgccgact gtccactcca acttccgagg 1140
 taaccaaac tcacatcgac taattcatag tttggagcgc cgttcaatga tcttcatcac 1200
 gaagtatgcc actgtgacaa aaagagggtta gtgcgtgtcc atcatttgca gatcaaacac 1260
 caacgattat ccaggaatt ggagtaggag acgaaaagag aatattagag actagctagt 1320
 ggtgggtata tatagccgta gatattacaa tcatatatgg tatcaaatca agcagaggta 1380
 tgtatgtcaa ggagagaacc aggagcgaag aacgcatata gccaaaattt atgactcacc 1440
 agcagcaacg acaggagccc ttacagcacc ggccttagct gaaccccgcn cagtgtgagg 1500
 atatatcgaa cccatctaga tggacctacn gcagaacgtc aaagtcgggg cggaaacctc 1560
 gccgcttgac t 1571

<210> 2455
 <211> 913
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2455

taatatcgag attctgaaag gggctctccg gcaactggccg cccgagggag acagcggttt 60
 taccggctg tggaatgtac agaggagact gggaattagt cctttctgga atagatcgaa 120
 taactacttc gtgcggggac gcatgcagtg gcatgcagag gcatccaagc gacgaatcct 180
 gagtgcagat ggctggagaa ttcgcgccct ggatggagtc ttgagcttgc attgcaacgg 240
 agtatgctag tggatatccct tttgatggag gacttcttca gtctttgaat gattagtaat 300
 cctacgcctc tagattcgac tggctctgtgc cacattagtg gtggccagta ttggtaggta 360
 cgtgatattg gattctgaga ttgagctgaa gctgttgaga agcctggaaa ttagtttgcc 420
 gctcaggaaa gataggtagt atgcatcttt gggatagcaa ttgtattttc tgctcgtatc 480
 attgacaggc tttgtctgaa ttgtcgactg cggggttgag tcttgcattg aaggttcatc 540
 tgataaagtg atagtacacg agatcgccac ttccgcattg ggctgtcaat caaacctcga 600
 cctatccatg acaataaccg tcaatccttc acaatcccga caatgaaccg tccacattcc 660
 ctatgtttcc atcgccattc gtccttgccc tgcgctccca tcatgctaata cgggtccagc 720
 catggcgcca tccggtgggg atcctcogtt ctctcggctg gagatttagt caaaagacca 780
 aaatattttg ccccagggt tcccttaata atcgtgaatt tttcgccctc ctttctgttt 840
 cacatatccg cgagatttcc atatagcgat gctagcaccg tgcactcttt ccaatacctt 900
 tctacccttg tgt 913

<210> 2456
 <211> 1742
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2456

aattctaaat tgataatacc atttactcaa cgacatctgt atcattatct ctgtcctctc 60
 gcattgattc caaacaatat gtttagtata tggaccagcagc tcagcaggtg ctgatttccg 120
 gggtaggatt cccaatcaac tcgattccat caccgtcgcg tgggggtggga tctggggaag 180
 tccacgctcc taggacattc gaataagaaa ctggtgatta atatcccaaa gtcatatcag 240
 tttctagata tcgaaggggt aacggagctg gtaccctatt atccgcatgc agatgcttga 300
 ctagcccatc tgcttggtgt agtcagtagt actatggagt agcccgggtt tgcagtacta 360
 gcgtttcgtg ccttacagta ggccatgagg tgggcatgc attttgccga acatcgaata 420

ttttcaaccc agcttgattc tcgaaactgc gaggttactc cgtagtatac agagttggaa 480
 tggactgagg ccaaagatag aaaataaaag aggcgtagcg taatctaaaa acgtggcgat 540
 acagacactg tggttttgtc tctcaacaat gctgcgcctt tttcctgaaa caaagaatgg 600
 atcgaaaagg tggctgccaa aatggaccga aaatagcgaa aatagcgggc aggaacgggt 660
 ggcggtaatt ttcactgtaa gttaccggca agaggcaaaa aaagcaggcg caagtgattt 720
 aaatggtecc ccacccacag tactctgttc ctctctctc ttctccatcc ctccgtcttc 780
 tcgctctctg agtctttata aaccccatth catctccat tcaactctct ctgctattc 840
 ggaaccagca gactattttg tgttgtgcgc atttgtccat cgttgaccgt acatccacca 900
 ctttttagca cttccacaca tattcaaaat ggtgagtcac tattctgtca tgcccttttc 960
 tcgtggacaa ttgctaacct atattgtcca gactgactca actaatgtct ccaatacggg 1020
 gaatgtgcgt gtttaccacg atcgacttga ggactttatg tctcgatagt cgtactctgt 1080
 actaatttta cctgcagctt atgaagtaca tgagcctcga ccagcgaggg tcggtcatgg 1140
 ctgagtacat ttggatcgac gccacggcg gtactcgaag taagacaaag gtatgcacct 1200
 gattegctct gcttccccga atcggcgacg gaaacggact gcgctttttg tatacgtctg 1260
 ccaagcagat aaaacatgat gcgcacgggt gccgcctgca tatacgcgtt ccacgtgact 1320
 ttttttgtct tggttccaaa aactaactct acctgcagac tctttctaag gcccttcta 1380
 gcgttgatga gctccccgaa tggaatttcg acggttcac aacagctcag gccccgggtg 1440
 acaactcaga tgtctacctt cgccctgtcg ctatgtaccc cgatcctttc cgtcgcggcg 1500
 ataacatcct cgttctctgg agacatgtga ctctgatgga agccccaaca ggttaactac 1560
 cgtcacgact gccccgtttg atggaacgca tgccaagaag agttttgttt gtcttgacaa 1620
 aaacaccctt tggccttagg ttggcttagg tggccaaggc gggtcccggc ccaggaccgc 1680
 tctgggggcg tcccgaaggg ttagccgaac tttgggccct cgctgtttt cccgttaaaa 1740
 tt 1742

<210> 2457
 <211> 696
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2457

cacccttgca catgaacttc ctgtgatcga aacaccaatc gggtagtttg actttatgtg 60
agaacaagac acagccagtc atgacgtgaa caagtcgaaa ttctgattga atagtccgta 120
atcgcttctt cgcctcttcg ccatccgata aggatttgac aatctcgaca cgccagtaat 180
cgtttgcatc gccaggaaaa ccttcgtatc catatgccga gacttcgaat tgccaatcga 240
catcagtcac tggaggacgc tcgttatgtg aatgaacct gcggtgggtc atcaaattgt 300
gtagcctgat gactgcacca tcttcgatat agtttgctgt gagattatcc caagcaaaag 360
gaccggggat ttctgctcca ttggcgtcga gaggtgagt ctggttctcg gcgatgaaaa 420
ggttattgtc atctttatga gggtaaaggg tgatctgctg ctgcttgctt ccggtgggg 480
acatatgact gtgagagtgc aaatatccgc cttgcgtgtt atggtggcga atactaagac 540
gagaaccgaa gacaacgtct gcgggaacgg ctgccatgcc tttgaattg agagtagcct 600
gaaactcgga ggacatgaaa ccgtcgccct ctcccgatt gaccaagcac cggaagtga 660
ttgcaaakat agagcaatag aacgctaggg ggatca 696

<210> 2458
<211> 810
<212> DNA
<213> *Aspergillus nidulans*
<400> 2458

gactcataag agtgtggaga tttcaaggga gaagaggga tatagaaatg tacagaagga 60
cgacagttag gtactaggaa tgcaaaaaac gagcgggtta ttgaggttaa ggagtaacaa 120
taagggaata cgaacaaggt gttatataaa aagtgaagtt tagaggaggg ttaccgagtt 180
gcaagaggat tgggccagct tgacgacgag agtattgtcg tgcataagat aggttttcgaa 240
gggtcgggtc ctagtaggtc gttttttcaa tgtggtcaaa aggccagctg tgaataatac 300
ggaaagcatt attacgcca gccaggtcat tttggatcgg ggcggccttt tgagggggca 360
acctacaggt ggtcatgggt tgcaagggtt accatggcca cagttagcac gcgaggggta 420
gacgagcaca gccgatgtga tcagctatat ggagcgtcgt cccagaaga gtccatgcag 480
cgtctttgac cgtgtttgag ggcataaatg agccgaacga gagtctgcac ggggcaaaga 540
ttgttccgaa acatgaagtt atccgccacc aggcaccgca ttgccgtcc ccgatacttc 600
gccgacaggc tacgaatgtt ctgccaggt gtcgggtcac ggcctaagtt cctgagcagg 660

gggttgctgt catctaattgc agtaacggaa aggctaagag tgccgtagag cagagcgacc 720
caggacaaac ttaaaagatc accggatcct gtttgaactc ttcataatctg gcgtgaaagg 780
tgggatcgtg aagaacgtgg aaaagcggcc 810

<210> 2459
<211> 531
<212> DNA
<213> *Aspergillus nidulans*

<400> 2459

atgaatgaga catgtcttgt cgtcgatcat atcccgcggc gccgattcat tggagcatag 60
cctggaaaca catagcggca cgatagttaa ttttttgggt gtgggtgcag ctaagataga 120
gagaaaagtc tcttgctgac aaggttcgta gccacatata gcatgtcaat cagctagctg 180
ttcggcaata gtatgccaca gcaatgccga cctgattttg atgactttac gacggcgtcg 240
catcagttta aaacaaaaga aatcaccttt ggagagttct agaattgccca gttacctaac 300
caatcgttgt tgacaatggc acgtgcctga tgttggctgc gggctaagggt tgggatgcag 360
cttagcctaa ccaggcgcag aaatagcgct tggccaggag cgacggggcc gggtagggc 420
ctttgtctcg aggatccaaa ctccaagacg agtcaagcgt tgggtgtgtg ttgggtgttg 480
tgtttagctt gacgcgctga cagcccgtgg tgtacttatt tgacatcgga c 531

<210> 2460
<211> 1482
<212> DNA
<213> *Aspergillus nidulans*

<400> 2460

aaaattcagt cgataagttg ctgccgcgtg ggggcataaa tcaaaggccc atttgatgtc 60
caagccagcg gcttcagcgc cgcacgagac cccaccgcga ccacagaatc cgtcaccgaa 120
gggtatacttc cgctgcgcct tctgttttaa tattgtatcc tgaaagtcac tgatcatc 180
taacacaatc accggcgtct cagcttcctc tttgctgccg aaaggagcgg tttccccccg 240
ccaaccatgg cgcaagcttg ccgagggcgc gcggaaccgc gcatcggctt cctcgaatgt 300
caggtattca attgaagtag tctctttctg aataaccctc ttcaagcggc agaataggcc 360
atcaggatta ttattcttct gacagtcttg accaatggga caaacgttgc tgaagtgtac 420

tgagacaaaa cgtcgaacga accagagagg aatctccgca gtttcatcgg caacccaaat 480
 cagctcattg cgccattggg gaaggtatth gtctgggtgg tctttgaatt tgagcaaccg 540
 gcggccggtc aatattatat tgcctttcaa tgcttgccgt atagagcaaa ttcggaagaa 600
 tgcgccatcg tggagctcga cggaattgcc cggcttgtag acaattccgt cagcatcaca 660
 gacctcttct agcagctgcc ctccggaag ctccggcgag agaggactgg aagcacacgc 720
 ggaagcaagc cagtcctcgc gcagtacctc gaaacactcg tcggttatgt attcgccatc 780
 atgcgtcgtc tcatcctcag taagatcaat aaattccctg gttgctgtgt cagagtcttc 840
 gcgcaaaaag tacaaccgat ctgggtcgtg gtcgattgtg aactgctgg cgtcgctagc 900
 gtcatcgaca atcacactgg gacggtagaa attgtgcatg tcgagagagc aagaaggcaa 960
 cgagaggcga gtgaggaatg tatacagcaa aagttcacag acagtgaag aagaacaaaa 1020
 ggtaggttaa atataggctg actgtctcat gaaatacagt ctcagagaag ataactctgag 1080
 acaagatggc cttagagaat atagacgcag gggagtagac caatatacga ggagaaaagg 1140
 ctggtcagta ggtagtgaag gtgttgaaac aggcgggctg cggaatagag aagagagtct 1200
 tatatgagat tacggacttg gagcaagagg gttttgagac atcaatacga aatgaataaa 1260
 acattcattg tttgactaga tggaatattt gatcaaacga ggaaacgaat actgcagatt 1320
 gcaggttttg ctggaagcca ggcttagcag ataaaacatc tgcatacaac cggtcatttt 1380
 ctaagcacta tgctcaacaa agaaagaaga gtaacatctg accccaaggt tctacgctga 1440
 tcagatgtct ttcccgactg agtataagtg aagccccata tc 1482

<210> 2461
 <211> 1313
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2461

gacgctttta catttttagc atttgtcac catccaggaa ttagtattgc ttaaattgat 60
 tgcaatatct tactgttatg ttccaactgt atggctacgt gctacatgaa acaaacaccg 120
 aaccacttca gtaccatccg ccgctccaaa aatcctggac atcaagtttc atttctgctt 180
 aattcttttt caaaccccat tcattgccac ttaaataget tctctttggg acttgtcccc 240
 caccaagtca acttgaagct ggacaacaat cttgcgatta gacttggccg ccaatatata 300

tctagctctg ccaaaatgga acaggcaacg gccgaacaat cataacttcat ggaccaggca 360
 tttgaaatgg tgctggactg cgttctcact tcatgtatta gaacaatact gaccctcgag 420
 caggctcgaa aagcgctcga tacagggtgaa actcctgtag gctgcgttct ggtgtacgag 480
 aacgaaatag ttggtcgtgg gatgaacgac accaacagat caatgaacgt ggggtccatta 540
 tatatTTTTT ttcattagac acctcgaagt tcggaatata ctacttcaaa tatcaatcct 600
 tctggTTTTt tttctagcag ggaacaactt ttgaactagg caacgatcta ttgaaacttg 660
 ccctctgaca tgtcagcata gggaacaaga cacgccgaat tccttgcaat ccaggaaatg 720
 cttcgcacat acccgaaatc tgcattacgc tcgacggacc tatatgtgac cgttgagcct 780
 tgcgtcatgt gtgccgcggc tcttcgcaa tatcgaatac ggcgtgtgta ttatggttgt 840
 gggaatgaga gatttgagg aactggaagc atcctgtcct tacattccga gtttgttgcc 900
 cattcatgaa gtactgttag cttttcagat gctgacctgc ttcagttctg ccattgatec 960
 gccttaccct gtccatggtg ggctgcagcg caaagaagcc attatgcttt taaggcgctt 1020
 ttacattcaa gaaaatgaaa agggatatggt gattatatgc gttgctatac tcaaagaaac 1080
 tgctgctgac cttgacagct cccaagcctc gtccaagaa acaccgagag ctgaatacca 1140
 aatttgagga tgatgccgac ttttgacacc acatcatgag aaacaaaaaa ctgcagtact 1200
 actgagcgag taatgacctt gacaacttaa ttatacaatt gttgtagctg gcttgctaac 1260
 atacattatc gaaggagatg gcttcacggt cagtgcgcg attgacaaga tat 1313

<210> 2462
 <211> 794
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2462

tttgctggca atccttctga tcgttgagga tgacatggca ctcgtcgatg acaatgcggt 60
 cgagccgtcg catctgccgt tggcggttca ggaacgtgtg gaaatccggg ttctcagtcg 120
 actcaggcgt cacaagcacg atcgctgcct cgtcaggggg ccggcggtc tcccacgaca 180
 cgcacgagat gcccagggcc tgacagcgca tcatcaggtc cgcgcgcagc gacagcaggg 240
 gcaccaccat gattgtgcat cccctgggg ccgcatacgc aggcaacatg aacagcatgc 300
 tcttgccact gcctgtgggc atgattgcaa ctacagggtt ggcaccgtcc tggatgcct 360

tcagcgctgg tgccctgcacc ccgcgcaact gcagcgcggg ccgtcctgtc atgcgctgca 420
atgcctgcgc catgtctgtc tgggccagct gctgttgctg ttgctcctga tggtcgacag 480
cctgtctctc ccacgggtta gcgcgcttgc ccagcaccgt gttgactggt agcgggtctg 540
gaaaccccag aaagcgatgc cagtcagtgc tcgacgctcg aaaccgcagc cggcgcgctcg 600
tcgtgctgcc agcgagcttg ctgctcttgc gccatacac catcgctgcc acatggggcg 660
agtgccttgc ctgctcgctc gcgatattgc ccatctcacc gagatcctcg tctgcctcca 720
gggcggccat cgcctctcgc gctcggcctg gatgttgttt gggaacacgc tcgacgcgcg 780
caggaatcga cggc 794

<210> 2463
<211> 1514
<212> DNA
<213> *Aspergillus nidulans*

<400> 2463
tattatcttt tctgggactc accctagggt gaaggttccg cagcaatttg tccgcaaagg 60
cgtgtctcgc aacccgcctg cgccaacaac gcctcaaat aaggcggaca agaaggaggt 120
ttcgcttcc aaggctcgt ctcaccatat tgcgtctaca gtgaagcctg tcggctcccc 180
gagaacaaat ttcacaaatg gccctcga tacaacggcc tcccgatatc tcccaatcc 240
tgccctcgaa attgatccga tcttcttga aaagtcagaa gacttagtga gggcagagct 300
gcaactgcag agacaaagag ttgaaaggga gatacgggaa caagttgagc tgaagagaca 360
ggagtcaaaa cagaaagtat ccatacagga cgcgaccct gattttgacg tctctgaagt 420
tctcacacgg gcgcatgaaa tagtcaaacc ctccccagca cctgagactg cagcgcttag 480
tgactctatt gacgagaact cttctactc tagcagggcc ccagactccc cgcagcacgg 540
tgaccataag tcgtcttcgg cgtcatcgtc tgtacctggg gagcttggca ctggggccat 600
cggaagaaga tactcagatg agttgcatcg gcttgaagcc ctcaaccgtc ccgactcgga 660
tcagtcaatg caagatactt actccattgc agagccccga ccttcgtctc aaaggcagcc 720
gcactactcg gaaacgtaca ggacacacat gcgccaaccg gctgagccgt cggatgaacc 780
tgaatactcc cctccagctc ctggagtggc gccaatggaa agggtagaga cttacgaacc 840
ccaagagcc gttccgaacg gccctaaacg ccaggtagtt gatccacgag accggtacga 900

tagacgggtcg atctctccgg cagatggagt acgagttgta cggaatcata tcacatcccc 960
 cgcagctccc cagccgtcta gggctcctccc tctcgccatt gccaaagggtc catctgttaa 1020
 ccagcatcat gaatcgcgct cagagtatga gccagagcgc cggggcagcc ctgagggtgcc 1080
 cgctcaactt ccagtcctta gaaagcgtag gcgattacat gatgacaggc cgggtgtataa 1140
 aactcaaggt ggtgggttcgg ttaaaccctt catcaaagag gagcctgttt cccctcctcc 1200
 ttttgagat acgccacctt tttaccgacc acgtgctcag gaagggcctg tttacattga 1260
 tgtcccttca ccccgctata cgccagtggg tgaccgacgg gagccgggcy ttaagaactt 1320
 caggatatgg aatggaacct tacgatgagg ctcttggcga tcagggtgata ccccgtagag 1380
 ctttacggct ggctgctcag cggccaatgc ggatgaccag tactgataga gtgcgagttt 1440
 gacaagcgcy atagcctgat gggggccgaa tatctgagca caggccctac cttgtcgaac 1500
 ggccgggttac atgt 1514

<210> 2464
 <211> 1927
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2464

ccgcctgccg ccggcgggca ttccactgcc ctgggggata ctactcttgt ttcgagaatg 60
 gcgtggagtc ttgccgcttt tacgtgcctg cgcttgcgc cccaacgctg ccgttgcac 120
 tatataagcc cggcctccct ccctogaacg accacgcact cttctcttcc acttttccct 180
 ttccctcttc ccgtcccacg gcgcccagtg cactgcccc cctttttttt ttctcaagat 240
 gccgcgttat ccggacacgc tccttttcca gcacggcgcc atctccacct tcctcgcttc 300
 gcccccttca actacggcgt cgaggacggg ttatttggac gattgagacg tgaagtccct 360
 gtgaccatta cttcgattgg ttgatgagcc catccacctt cttttattct gtccagtcac 420
 tgactcttgt gacttggggg cctttcgcg gcggttcagc aaccttggag tcttctggcc 480
 gacactgcat gtcagcccg tttatcttcc cctcgcgccg ttttcgaatt tccttctacc 540
 tcgatgcagt cttcaatatg aggaacctgg ctactgctt gccatgggct tccgagatcc 600
 gacatgggga gggcagtttc ttgatcgctc agctaccacc cctgtcccgc agcctgccgg 660
 tgccgctcgg gtgaacaggg tcacatttcc cccctccacg gccatattcc ggacccact 720

gggatctgat cacatatacct tgccttggtc caccaaccaa tggcaaaatt gccgcatccg 780
 tttcatttcc gtgtcttggg catgcgacgc ttggaattgc agtgaagaga tgcgattggg 840
 gccgggcacc agatcttggg ttcagcccag cgtacgcagg tgagcttagg cgcgtcagcg 900
 gaccgatcat gatcttgccg gcaaggggat tttgccttgc cgcttctgcc gatgctggac 960
 agtaacggac ccagggggag atataagggg acgattgggg cccacgagac tttcgggcat 1020
 ctcacgttga ttcttcaca gctgcccctt cctcctccaa ttccgttctt tctctcgtcc 1080
 ttcaaatcgc atctctgccg ccgtgttata cctccaaaac taccocgatt cccataatat 1140
 gcttcttgca tttcagataa ataatttcaa gccatggacc ccccttcccg cgaaaccgtg 1200
 tccaccacac agaacactca atgcgtgctc cccacaaact tcatatcctc ctaaccctga 1260
 gccctgtcat gttctacttc caggcacttt gccgcctccc aaacatcacc ttccggcgcg 1320
 accaccggcc gaagtctgcg tgcattgtag tgccaacacc cagctggagt cagagacatt 1380
 cgggcgtagt accgcgtctc gacagagttc tgtaccccat gttcctgctc cggatctgat 1440
 ccgcccctgc tctcctcagg acgagactag aaccctacc aagccgcctg gattccagga 1500
 agatgacgca gcggctaattg tcccgctccc gagtacatct agctcgaccg atagtctaga 1560
 ggacttcttc aggatgccag actcgcccca agacaacatc cccattgatc cggtaatctt 1620
 tgccaatctc gggccatggg agagtacga cctccagcta catgcccccc cagcagacgg 1680
 cataacaaat ccggagacaa cctgcctgta tctgaacct ccggccattc tcggcagtcc 1740
 aactagccgt tttgaagtgc ctggcgaaag ggatggtagt gataatggcg gtattcaggg 1800
 aagtcgttat ggctgccaac aaatgaaccc tccctcgccc ggcaccggac cagaccaatc 1860
 ttctcctgat agccatggga agcaccatat taagcgaaaa acacgaaaat cagacggcgg 1920
 aattcgc 1927

<210> 2465
 <211> 1086
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2465

gctccctgtg ccgcaatctg agggggggaa ggctcgaaag atcgctatcc cgcgcgctac 60
 agcggcgaga acgactttcc agcggcgctg gtcagcgaga gcctgcgagc catgtcggca 120

gcgaaaggta aaatgcgacg cggcgcggcc agtatgtcag aaatgccgcg agcatggatt 180
 ggaatgttcg tatatggata taaaacggat ccgggatcag aaacagttgg gtctactgaa 240
 tgagaaagtt gagcgatacg agaagttggt gaaacagcta gagacggagg ttgatccaac 300
 aactgcaaga ataatcagaa ggactttatc ggtgctgat ccgagtacat ttaatggcaa 360
 aactaatgaa gtaggtttct gggcagccct cgtcagatga tggaggggga gaaaatgata 420
 gtgacgccga ttcgaccaca tcgcaaggat ctttgaaga tatagacttg gtcaaagagg 480
 atttgaatcg cagtgcacaa acggttgcag ttggattctt cgggaagaat tccgagattg 540
 cgtggatgca gaagcttgag gatgtatcag accaacgaga gcacggcctg tcgaacggag 600
 agaagcctac tagcaaagat atcccatca attcgatgag taccatcttg atgacctctc 660
 cattccattt cccgacacgg tcaacccta cgcagtgccg gggaaggaat tggctgataa 720
 gtacttcaat gcgtacatgg agtcggtaca tccatcattt accgttggtc ggaagcgaac 780
 tttcagggcg cagtacgaac agttctataa gaagaaacat tttcgtccgc cgcggaagtg 840
 gttggctgtg ctgaacatga ttttggcgtt gggctgtcgg tactgtaggc tgactagcaa 900
 ggttgtggca ggtgagaggg atacggacga cacggtgttt ctgaatcgtg ctagaatact 960
 gtgtctgagc gggaatgtgc tgttcgatca tgacgatccc caccagatcc aaataatcct 1020
 ctagttgcgg tctatcttgt tgcgtttatt caggtnnncg agtatgacat gcgcccncctg 1080
 atgcaa 1086

<210> 2466
 <211> 1340
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2466

gtagttagtc aactcaacga catcaaagga cccaatgggc tctgtttaa tgattgaaaa 60
 ggattggcag ctttcattgc agcagatgct tgtcaccttg accatcaatt atcacaagtc 120
 tgtataacat caacttcgga gggcacgctt cagtccttgc atagggtag tctatggaaa 180
 tccttctgta tagtcagcgt acagaaaaca aaatacattg tgttacgtgt tggagtagta 240
 ttataactga aagaggtaat ccacaggcag ctctggcag ctttgaaaca ttgtctaact 300
 tgggtctctt ctagatactc cagcacgccg cgaggaaaac atcctgctat ccttgtagct 360

cctgctttga gctaatacgt ggtcttagtt gttatctagt actctgtgct ctggattcgc 420
tatcgaatat ggctcacaca tttgcagacc cacttaaaga cctcgagatc gctattgtaa 480
atztatgccg cttatgtagt gttgaaaaca tgcaaggggt gctatggtat cttgaagtac 540
atggcagagg tattatcagc atctgaacaa tatcaaccaa gcaagttatg aagatgagca 600
tctaccaata tccattttta taaaatgatg tttccattgc tatacgtgcc atgtgggctg 660
tttgaatttg aaagaatata cttgtgtaaa gcccataca aagcaaccaa agaaatcaaa 720
gcactttatg tgcattgcta tataactgct atgaaatata gcagtagcta agctgggttag 780
cgatacgaga ccttgagatc tttcattatg atgtacatca gactaccata ggagatacca 840
actaatagaa agcaccagaa ttgacacagt gagctctcga ccattccaga tgtcttcaca 900
aggagacctc tacaacatct ccgagacgag aagcagggtca ggcctctttc aataagcaat 960
cagcaggagt acgctcagcc aggagacgag gtgtccataa tgtctagaaa acaaccattc 1020
atggcgccctg cgaacggcga taacgaggac tcgctgcggt ctctatccat ccgcagacgg 1080
ggcagagacg gtcgctcatt atcgcgagac gaatcgaaca tccatccagc attccgcgac 1140
aaaccctact ttagtccgtc ctcgtcgcac cagcagaccg gagccgagtc actaggccag 1200
ggcggaacag agacgacgat atcagactta ggcacgaact cgcggaaatg cagctcaata 1260
gattcactgt gcagcgagtg tcgtaatgtc ctaaaagcca tccggcctaa cgtgagtgac 1320
aagtacctcg agtgcccacc 1340

<210> 2467
<211> 1602
<212> DNA
<213> *Aspergillus nidulans*

<400> 2467

agaagataca gggcagtttc agtgccaata acataattta ttctgtgttg aatgatcgcc 60
ctagaccocgg ccaggccatc cgtaccctct tgaacctagc cattgggcta ggccacgacc 120
gaagatztat cgtttcgatg agtcaagatc atttttccac cacttcacgg gacggtcaga 180
tggctctggat ctacaacgta agacgttatt ctgcggggta gattagagaa aactgagggg 240
cgagaggcga ctttgcctct gatagggtgt tcgcgccgat ggctgtcaca cagatgcggt 300
tctgaatcat gatcttttaa aataggacta tactttatga atgctcagga ctatgtcagg 360

atgcgttcgg agtcttccct ctagagaagc aacgacaaaag caatatcatg gttgctagaa 420
 tgcaatgcat ttctgcatta ggccagtctc aaaatacatc ttatcgagga agccacataa 480
 ttaccccaca aaataccaca gtctgtcaat aaccttggtg agtggaacga tgatttgcg 540
 caggggtgat cttgactttt cctctgggtc gaccactggg agaacgatgc gatatcgagc 600
 caccatcag gcgactcagc ccgcagacgg tcaggagatt ccaaccatga tctcgaaaaa 660
 aaacatggcg attgctgtca gcccatccgg cgaccataag catatgcaaa gaccatttgt 720
 agacgccc ataaattgaa cagtgtcaag agcacttctt ccacactatt tgaatcaaaa 780
 accaggcgta aaaaaaaaaa tcaactgtcaa aatcaccatt atctaataatg acgaacacgc 840
 atgacttttc ccgcgatccc aacaatgtcc aagcctggct tgttggtagc ggtattgctt 900
 cgctcactgc agcagtgcac ctgatcaggg aagccaaagt ccccgggccc aatgtccatc 960
 tcatagatac gcacaaggga accggcggag ggatgagcat gcagggaacc gaagacagcg 1020
 gttatttcct cccttatgaa tgcacaccgc actttcatgg cagctgtgtc gagcggctct 1080
 tagcactaat accgagccca gaaaactctg aaaaatctat cttgcaggct gttcacgata 1140
 gggaggccgg tggccgctcg acagtggcgg caaatgtgac taggacctac gactatggct 1200
 acatataccc gttcgaagcc agcactaatc gccatggaaa ccttgctgaa ggtctatttg 1260
 tggctggagg cattggcggg tctcaaaaag atcccaggaa gcatcatact ctgccggcaa 1320
 ggttcgtcac caaaggcctc tcagggccgg aggtgtctca tcacaagggc gttcagattg 1380
 ggataactca gcggatggca cttgttggtg ttttgctaga acacgagagt gcaatagata 1440
 gcaaaagcat caaggatatt tttgatgcag cgtttttcga aactgagttc tggatgctct 1500
 ggtcgacgac gtgagttctc caatcatcac atctctacc attttcactt gataatgatg 1560
 aaccttctga caaaaaccta ctgcagatt tgggcttcac ac 1602

<210> 2468
 <211> 1108
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2468

ttactttgtg gatacgatga accatctgta ggtttgaacc atcacaagggt gggctaattg 60
 ctaacagcta cagtctggac tttgcaaaaa tcaacaacct cgcttccatt aatcagactg 120

cctcgtcagt caccagtcta cttacctcgt tcgaccttga cgtcctgatt gaggaagtag 180
ttagcagtgt cttttccgga atgtgccatg cggccattgc gttaacgcct ccggagagtc 240
ctagcaaccc cgacactgcc tacaacacagg gtgtgtctgt tgtcttacga ttcgagaacc 300
aagatcgggtg gaaggtgaca tccatgaccg gggcatggcg acgaattgtc atgaatatct 360
ttggaaatgc acttaaatat acagacagtg gttttgttga aatctcgggtg tcgctgctgg 420
atccgccagt gaaaaccgac ccagattctg ccgttgacaca cttgcgcttc actgataccg 480
gggtgtggaat gtctcaggaa ttctgagga ataagctgta ttgcgctttc gcgcaagagg 540
acgccctagc cgaaggtgct ggccttggtc tgagcattgt gaagcaactt gtctcttttt 600
tcaaggggtc aatagacgtg aagagcgaga ttgatgttgg aactcaagtt gatatccaaa 660
tccccgtcca actggcccc gatgatttctg ctacaggtgc atttggtccg gaattaggca 720
tgggttttgcg ggaaaccaca ttctctctca tcggccttga tgcgtaccct gaactttgcg 780
aagagcctac tggaagcttg agctcagaag cgaagcgaag aatttgctta cagagcttct 840
ttaccaacct actttccggg aagcccaatt ggaagatctc ctcgacagcc acgttggccg 900
aggcagacgg cgagattgca attgtcagcg aagcctctct gaaacaactg ttcgtagacg 960
aggcactgcg tcgtcgtgcg gagaaaaatc agacctagtt tggatgccat tgtgatggct 1020
agccgtatct aaacgccgaa ggaccagggc gggcccaagg tagctcgtct atacgacggc 1080
cgggacacga ttacagcggg gccattag 1108

<210> 2469
<211> 2669
<212> DNA
<213> *Aspergillus nidulans*

<400> 2469

cagatgcgcg actcagccgc tggcaggcaa gacgtttact ctgtttgcaa agaagtggac 60
ctacttggcc tacgtggcta tctttgaggc gggcagcttg gtatctgcat tagcgccctc 120
gtccgcagtt ttcatagttg gtcgagccat agctgggtgc ggggcatctg gtatcttcgc 180
tggcggcctt gtcacacctga ctaccgtgat cccctccac aagcgcgcta tttggactgg 240
cacaatgaac gcgacattcg tcgtggctag tgtcattggc cctgtagttg gcggtactct 300
aacgcaacat gttacatggc gctgggtgctt ctacatcaat ctcccgattg gaggcttctc 360

tattgcggtc ttcatgctat tctttcacat caagccggca gcaacggaga atgcacgccc 420
actgcagaag ctcaagaagc tagacggcat cggattcatc cttttcgccg gtgcagttac 480
gatgctcctt ttggccctgc agctcggggg aacaagtgct cagtatgcat gggactcatc 540
tcagattatc ggaatgttcg ccggctgtgg tgctacaatg gcagtattcg tggcctggca 600
ggccacctc caggattcgg cactgatacc acctaggctg tttgtcaatc gtaacgcccc 660
gcttatcttc gcgtctgcgg tcttctcaaa cgggcctttt caatgcattg tttactggct 720
gccaatatgg ttccaggctg tgcttgaagt atccccgaca gcgagtggag tcaggtatct 780
ccccactgtc attgcagacg ttgtgacatc aatctttggt tctgcactcg tcacatactg 840
ggggtggtgg aacccttcc tgacatttgg aatggcgatg atctctctcg gcggcgggct 900
tctgtcaacc attcaccctg gtatctcaaa cggtcattgg ataggctatc agattctggc 960
tggaatcggg tactccctcg ccgtcaacat ggtcagtcta ctgctgtac taactagtaa 1020
ctttgattct gatgtcacac ttattaggct catatcggcg tccaagcttc actaccacc 1080
agcctcgttc ccctcggcgc aacgactctc ttatttgtga tctcagcgag ctgtgcaata 1140
ttccttgcac ccagccaagc tatttttcaa gcgcgactca aaaccatcct tgtgggagct 1200
gtgtccaag atacaataga ccgaatccta gccgtggcg ccaccaacat ccggtccgtg 1260
gtcgcccg acgaccaggt cttgggtcttg gatgcctaca gtaaaacat aaaccaaata 1320
tttgaagct atgctgacac tgaactctct gtacttgctg tgcattgtcc ttgctgctgt 1380
tgtcctgggc aactcgagct gacgttaccg tattagtatc tcccggcagg gccgcggcg 1440
ttgtcgttta tgtttgtctg tgcgacgagg tggatctcag tcaaaaaggc agtgtcgaag 1500
gagacatcta gtgcttagat aagtctttg tggattttct ttggtctcct ccattgccacc 1560
ttctactacc gaatctcgag cactagtact gagagcttta agaaagcgaa cttgaatctg 1620
ggcgtagat agaagatgga agacagattt tagtgccatc atatctgctt agcagtgtgc 1680
tatcggtcgt ttactactta ctgcaggggc ggttcgtagt ctcttttctg tacctatcgt 1740
acattgttta aggtgggtgt atccgatatg ccaaattgat ataccacga tgccaacgct 1800
gagtatgatg agctgcgctc acttaaagcc acagtgaat atcttcocaga ctggaaattc 1860
tatactctt catctaagag catcttaaaa gtgctacaaa aactactgag ttgcgagcgc 1920
agggactgca taacttaagc gaactgccac cgacgcaccc ataatatccc actacacgct 1980

tacttcccct cctctctttt cgcctgcctt gacatcaatt cctcatattc cttcatgttt 2040
gataccccct tcggcattcc gttcggcatc agcccctgtt cgtccatcag ccgatctctc 2100
gtacgcatcg cctcacgcca cgactcgcgc atttccatgc ggcgctgcc a ggcctggaca 2160
ttcgggtacg gcgcaagagg gtcttcgccc tcaggcgtca gaagcaccat gttgacgcgg 2220
gcattccagg ggaggaaggc caaatcagcg aacgtgcatt tatcgccgac gagccagttg 2280
cggccttcta gtgctgtgtt gagcacgccg aggatgcgat gaacttcatt ctcgtaaccg 2340
tcaattgcgg aaggaagttt ttcagcatgc aagacgttga acctaggtag gtagaacagt 2400
tgttagcggg tgcgcttgtg ttgtctgctg cgtgctgggt acatgaagaa gtagtaggta 2460
gacactaggg tgagagatga aagtcaacac gcaatcttac catccggcct gtccgaaata 2520
aggtcctgc ccgctcatct ggaaatggag ccaactgattc agaaggtgtt ttccttcaag 2580
gaggtgtagg ttagcttttt ctccgtgtcg tacacacctc gagatactgg aggattgccc 2640
ggattccaca ggggtcaaac agtgtttgg 2669

<210> 2470
<211> 2110
<212> DNA
<213> *Aspergillus nidulans*
<400> 2470

tcagccgatt gtatggacca agaccacagt aggtcttacc aacgaccca acacaaagca 60
tcgtcgctac catctaccgg aatcagcagt cgtcccaact gaagaaattc aaccaaacac 120
agtaaagtac tatgtaagga gaactcacag catcagcagg ttcccgcca tcaggataat 180
atccgtgcca tgcctactgc aaatcgcgct ctactcgcg acggcacccc tctttccatc 240
atgagcctct gcagatcgct catatttatg ggcgagagt taacgatcgt acgagtccaa 300
cgggtgacgga aggacactgg gcacgtggaa aacgaccagc actagacaga gcgtggtaca 360
gacggataac ctcaaaaggc gcgataacga cagcgatggc gacggcgaca tcgttgaacc 420
tgaattgcgc gtctggttct ggagtgaaaa tgaaacttgc agctcgttgt caagactcgg 480
gagaagcggc tggttgcacc attatagctt aagattagca ttgcttgggt ctccaaacaa 540
agcgggcatt aaagtaacag taacagccgc gcgaggetga ttttgtgcc gttcgtacct 600
gtttctccac atcctgagcg ttgccgtcat acccctgcag ttgcatcgcc ttttactgga 660

cagcctcgtc ttctactggc cttgcaaggt gacgagccag ataaggaaga aggatgggga 720
taaaaaactg gagcgaaaga cggccatttt ggagaataat ctgcatcgcc tcgaagactc 780
tgacagacac tcgtggacat tgataagcaa agggcaagcg acaatgtgag tggttgataa 840
ggcccgcaaa ctagcactcg agtcgctgcg tgaccgtctc caatcttgag gaccgccgat 900
acgagatctg ggttcctggt gcaaggcaga taagaccacc atcagcatca ctaaccgttt 960
ccctcaacct cagggtggtca agattggacc cgacagactc gacctgtcat cctgaggggtc 1020
acgggtcggg gtcactgtag atccccccgc atagtgcagt ctacgctata ctgtagtac 1080
tcagagtgtg cagtcattac gtacaacaaa ccgtcctcgt taccttaacc ccatctcact 1140
cttctccttc tgtctctccc cgcatatgg caccgtatag gcaactgcct gcctcgccca 1200
ctggaccgtc tcctgcaaaa cctcaggtac ctctcctgt ggcccagcc ccgtcgcaac 1260
caggcgggca cccaggttc ccacatacca cttattacta agaagatgca tcccaacgcc 1320
gtagtgaag aatagaatcc gcgctatcca gtctccctcc tgcagtcgcg ccataaattc 1380
cttgctgatg tggatcgga acgccagaat tccgccttga ttctcccgcc gcggccattc 1440
cttgaccatt tcttgacgcy tgtcccaggt gctgaggtat atcgctttgt gcggggactc 1500
tgtcgaatct attgagctgc ggagatgatt gaggacttg agcaggtccc tgtgcggttc 1560
agaaatttgt cgcgaggtgt agagttctag gttgatgcga acttaccgtt gtaactgctc 1620
tagaccaggg tcttctcgcg cgctgcacgt attgtcagca atgccggtca ggtgcagtgc 1680
agtgttgaag caaaactcac tcctctacct gcccctgttt cagaagcacc actctccgtt 1740
tatagataaa ccacgccttg atctcctctg gctgctccac gctgtctagc tgctcaaaga 1800
ggaacgcgca tccggttaagt agccggttga tttccagcac ttgcagaagc ggatcgaacg 1860
tatcccggtt ttgcgacaca cacgggtacg caaatgcaca gagcatgatg aagatcgagc 1920
aatgaacgc cggccccaga gtctcgggcy caaggtcggc cagcaccga ctaaaggctg 1980
agcatgcacg actctggtac ttgagtcaa tctcgagcca tttgctatcg ccaagctcga 2040
ggaacgccag gtgcagggct gcaaatgcga gcaaatgtc cagcgagaag ggattttag 2100
ttgcgaggcg 2110

<210> 2471
<211> 878

<212> DNA
<213> Aspergillus nidulans

<400> 2471

atattgtcgg aatgttttcg tcaatctttt acaacggttc tttcttgtgg tatcccaaac 60
attatagaaa ctacccttac taaccaatcg tactgagcag gagtttccga ttggaactaa 120
aagcaccggc ggccgagtta gtggattcgc cagtttatgg cgaacttatg acaccattcg 180
aagatcattc agcacagaca agaaccaag agacatttgt caggattcat taggaactac 240
gaactcgaac ctacagacacg atgttgccgc tgcttacgag attctagctg ccgttgacga 300
tcaagcacgc aatgcaatac tggggactgc tgcgatcgct tcgatcgctg aaaagctccc 360
tttcgagagt tctccaacta gaggatttgt gactcaccgg ctcgatcggc tcgttgccga 420
cggccttggg ttgctgttgg aacacggatg cgcttcaga gaccatgcac tgcttgacta 480
cgtaccgaga ctacgtactg acgcctcaga tttagctcga gcgtctcaa ggtcctgcat 540
ctaaaagggc gaattgacgg tgtacgcagc attcatacac agtcggcgaa atgctgcgac 600
tatgatctgt cataattgta ggccgaacata cgttggccag ggataggagc aggtgacgga 660
tgagagcagt ctcaatgcgg gttagaacaa gaaacgttgt aggctgagta ctcccagta 720
taggagaaat cgagccttga ctctgtcgag atatctagaa tctcctcgga gcgacgatgc 780
caagccagag gcgccgtcac gtcacgtacg aaacagacgc aggaaacaag ggcccactat 840
gatgtctttc ttccaggcag cccaccagc gagtgctt 878

<210> 2472
<211> 1480
<212> DNA
<213> Aspergillus nidulans

<400> 2472

aacacatttc ctatggacga ccgggggtcc tgacgcaaga ggcaaaatca ctcgttaccc 60
gggctttatg cgttgctgtg atatcgacaa gtgagggagt ttccctggca catggggtaa 120
tccaatctat tgtggcctca aatccagcca ctgaactccc tcatttagta acttcccagt 180
acctacaggc cgactccctg ccccggtcca gcataacaat ctctcagat ccagttccaa 240
acatgaacat ggccgctttg gtgatcttca caagcggtag cactggacca cccaagggcg 300
ccgtccagcg aagaagctac atcacctctg ccgccgagga cgtggcggat cactaccgac 360

tcacggaatc ggatacagtt ctgcacatgt taccagttca ccatgcgacc gggatagggg 420
 tgacgtttct tccgtttttg gtggttgggg gatgcattga gtttcgcagt ggaggatttg 480
 acccggaatg gacgtgggag cggtttagac aaaacgcaa cccaactggg gccaaaggcgt 540
 tgagtgtgtt ctctggcgtg cctacgatat atacgcgtct taagcggtag ttcgaaatac 600
 acatttcccc tttaccgagc atagagcaag agcagtatat tgccgggggtc aggagaataa 660
 ggggtctttct atgtgggact tcggcgctcc caagaccaat ccaagaattc tggacgagaa 720
 tcttagacgg aaagatgata ttgacacggt atgggtgggac agaattccat actactctga 780
 aagctgatct cgatgggtca tcaccggcaa acagcgtcgg aagggtgtct ccggggggttg 840
 atttgagggtt atcagatgaa ggagagatct tgggtgaaggg gcccaatatg ttttccaagt 900
 acctccatga tacaacgca acatcaaagg cacatgacaa ggatgggtat ttttaagacag 960
 gtgatatcgc atcctgcatg ggggagagct actttattca ggggcgggct tcgcttgaca 1020
 ttatcaagag tggcgggtac aaaatctcgg ctcttgatat tgagcgggag atactaggcc 1080
 ttgattatgt ctctgagggtg atgattgtcg gcgtcgagga cgaggagttt gggcaacggg 1140
 ttgcggccgt tgttacgcta aaagatgaac acagagcaag cgggttgtct ctagagaagc 1200
 tgagggggga tctaaggggg gtgctagcgg gttataagat gccgactgtc ttgagggtag 1260
 cggggggcga gattcccaa ggagcgacgg gaaaggtaga gaagaagggtg ctggggccaa 1320
 gatatttccc tgatggatgg cgagggttgg aggagggtgca agtctgggat ccacaaaaga 1380
 tgcagcctaa gtcgaagtta taattggtat attgtcaatt gctcagtga tgagttttat 1440
 aagagttatt ggtagtaaca tagagtccga gtattatcct 1480

<210> 2473
 <211> 1747
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2473

tcaaggtcgt gaacaagcga gaagagtacc gagtctacag gaaacctatt ccctagaac 60
 tcttggtaat accccaaatg gacgaggtca tcccaaagcc tggcattgcg aagaggccat 120
 cgtcagggtt acttgccaac aagactgctg cgaatccacc ggccgcgaaa gataccctac 180
 cgataacttt caggcatctt ggtaaagggtg gatacgagca gacgctatat gcctcatcct 240

cacaacaacg aaagaagttc ctggagctag tggacgagca acagacaaag ctccgagaac 300
gcaacagtaa cttctacaac aaaaacatca tttgcgaaaa attcttcaat tcagtgaaca 360
gggtgaactg ccttgtccca attggtatga atcggtgcga ccctgcttag atattagcta 420
actcgatgct gaagatggtg gtccgaaact tgtatatggc acagatagct gcatatacgt 480
gtcggaccga aaccacggg accagtcgc gaagccaaga aaagtgctag atgtcagtca 540
agtgactcag attgacacgc tggaggagta tcagctactc ttggttcttg cgaataagac 600
tttgtactct tatccgatgg atgctcttga ggtcaccgaa gccaaaaccc agcggctaag 660
agaccgaaga agatccaggg tcatgcgaac ttcttcaa at ccggaatcgg tcttggacgt 720
cacctggtgt gttcagtcaa gacttcggct ctctcaacga ccatcaaagt atatgagccc 780
atggacaatc tagccaaggg taagaagaag tctactgtca gcaagatgtt ccagagcggg 840
caagatacct taaaaccgtt caaggttagt ttagcccca catcagtcct gatttctgag 900
ctaatcaatc tacaggaatt ctacatcccg gcagaatcat cgtcgatcca ttacctccga 960
tcaacccttt gcgttggttg tgctcgtggc ttcgaggttg tcagtctgga aacgacagag 1020
actcaatctc ttctggacca agcagacaca tctctggact ttgtcgcacg caaagagaac 1080
gtaaaacca ttcatatcga acggttgaat ggagaattcc tactgaacta cagcgacttt 1140
tcattcttcg ttaaccgcaa tggttggcgt gcgcgggcg attggaagat ctctctggaa 1200
gggaatccca attcttttgc actctcattg ccttacatac tagcatttga accgaacttt 1260
atcgagttca gacacatcga cacgagcgaa ctgatccata tcatgactgg aaagaatatt 1320
cgcatgctac attcttccac acgagaggta tgctcgatct tctccctttg aaaagacggg 1380
ttactaacgg cacagattct ttacgcctat gaggatgatt caggcgaaga tgttgtggct 1440
agcttggatt tctggaagca caagccgctg gcacagcatt aggcttctgc acagaactgg 1500
cgcttgcttt tgatcgcttt ttagaccaga ttctatttct gtcattgaa gaagcatttc 1560
gactccatct ctccactt ctttttcttc ttactcatt tgcttcttt ttgagctgcc 1620
tcaaagattt tctaatacct cgacgtttat ttggtccgtc ccagatcgag cctgctttgc 1680
tctcaaatta tcttccgttg gccatttact tccatcgtgc tgtgtacaat gaagcgcaaa 1740
taccatg 1747

<210> 2474
 <211> 1452
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2474

```
gcctaagcat gccaccatt ccttcggcag aatcatcgtc cttgaggccc ttttcttcca 60
gccacgaggc ccacttattc atgttgggca caaagtagct gacgagggta ggttcttcga 120
acttgtcacg acgcaccagc gtcacgttct ctcttacaag agggtgacgg gagagatggg 180
tatcgatttc acccagctca atacggaaac cacgcatctt cacctgggtca tcggcacgac 240
cagagcactc gacgtctccg gaaggagtgt atcgaccaag gtcaccgctt cggtagagac 300
ggtccttggg tccaacatag aactctctcc agggctcatt cgcaccctgc gactctgcgg 360
catctttctc gaccacgtc ttaggggtcaa caaaccagtt cgtaagggaac ttcttctgggt 420
tcagttccgg tgaaccaagg tatccttccg caagtccagc tgcacgaacg taaatctcac 480
ccacttcgcc aatagcgcag atgcccgtag gtcgaagcg gttgacgacc agcatctgca 540
cgtcgagcat tccccgacc gccgggataa cgtccttcat ggtgtccagg taccacccgt 600
tgctcgagta gctggggatt tcgaagtagc tgacagcacg ctgtgtctcg gtcgttccgt 660
acatgttgac aatgttgaca ttcggggcca gcccttgcaa tgagcggcaa tctctcttga 720
tcaagatata ttcgacgaag aaagcgtggg gaagggtagg gaactgggca gaggcgcctt 780
caacgaggat ttgaccata gcaggtgtaa ggtgagtgc agtggcaccg taatcccgc 840
tccattcagc aagcttttcg ttctgaatat cttcgcgtgc cggaaccaga agttgggcac 900
cgaggaacag aggagtaaaa atatctctct gaatcgggtc gtgagcgatc ccgctaagca 960
tggtaaattt gtcgttggga gtaagcttga atgtttcaga catccatggg aaatagtacg 1020
ccaaatagaa gtgacgacct ttgacaccct tgtgtctacc ctcgagacct gtagttaacc 1080
atagattttg agtagagtta ggactcacta caactccac tctcttggac tataattgta 1140
tcttgtttag cttgtacctt cctcggcctt agtcttgaat cctgcccaat tagctacacc 1200
ccttacgtct caactctcca ttgtcatagc tgctctcttt ttctcaatte cttgtaatct 1260
ctctacacat catttccatt atattataaa atgtattgca tattaactat gtattctact 1320
gtcgctttat acccttggtc tactcttatt gttgtatctc ttcattccac attgcatttc 1380
tattgtaaca tgtatatact tctctcagtc gtccatttgt tcttgagtta tcacttctct 1440
```

tgctctatac ct

1452

<210> 2475
<211> 1570
<212> DNA
<213> Aspergillus nidulans

<400> 2475

cagggtgttca gttataagac gagtgatgag cctggcagtg cgtgcgagaa attgtcgagg 60
cacttgaagg gtattcaaaa aggcgacgag aaggatacgt ttggtgggct gaagagagtt 120
gaggaggtga ctgtctagta tatagtatat ttctttcaca accacgtctt aagctctggt 180
attgctttca aaatcggtag catagtcatt tcaagatcgc ggcaaggagt ttgacaccaa 240
tctagatttc cgctttactt tataaccccc taacatttat atcgtctaag gatattcagt 300
ttcttcatat atttgcagca cctactgaaa taatgataac aagttcgaag agaaattgca 360
gaggatatcc catgccatga actaaccaaa taacactagc agaaacactc catcacggcc 420
tcacctcatt cccacgattg tcataccacg tcctctgggt ctctccctga tatccatgcc 480
ctccaggagc cgcccgcgaa gtccgagcgg agccctctc ctgcgcactc agcagatcaa 540
cgccaatgct tccatgcttt ctctctctc tcctctcctt ctctccctct ttctctgcaa 600
tcttggcctc cttcttctct ctcttctctt gcttcttctc cttccgactc acccttggga 660
actcgtatc gggccccacc aacactctcc ccgcatgcgc cacgttcaat atagccaagc 720
aaataaaaat ggggtccgca tcccatacat actcaaacca ctcgttccga agcgtgggt 780
tatcgatatt cgttccgtcc gcatactgcg ccaaccgaaa gatgatacgc accgtgatca 840
ggaacagcga ggcataaatg gcgtaaaaca gccaccgcca cggcatcgac cctctaccga 900
ccttctcggc atctaaagt ccatgccgct ccatctcgcc catcttccgc tgcaggtgga 960
tgaacagccc ggtgaaaatc aagatgaata gtcctgcac gccaatacca cccatgtaga 1020
tatgcacccc gcgcatgatc gtctcctgcg atgcctctgt gtccgtcgtg aatgccgcgc 1080
caacaagctg gatgatgaag gccaggatct ccagccagac gaatatgtgt ccgaagcggt 1140
ttgcaccgat gccgccgaga cggccgctgg ggaggaagaa gtagatgagg cggccgagcg 1200
tcatgtagag gaaggcggtta acccagattg gagcgaggag aaagaaaatt gtgaagggag 1260
tggtgtaggc gtcgctgctt tggttttttg cgaagagga cgcataatg aaggcgatga 1320

gttcccatag tgagctcatg attacaaccc aagcatagcg ctgaatccgt tagcttttct 1380
tcattgtctt tttccttate tcttcttttt tgtttttctc ttttatttgt cttcagtaca 1440
atgtggacgt accttcttaa acatgattgc ctgaacaata tggatgatcg tcgtaaggcc 1500
gaacaacact gaaaacaaga ccggcgccgc aaagctggcg tcgtacatgt ggaaattgcc 1560
acacccgagc 1570

<210> 2476
<211> 1266
<212> DNA
<213> *Aspergillus nidulans*

<400> 2476

gactattgat ctttcctttg cgtacgccac agcacggggc cttgactctt atgatgaccc 60
agagcttctt gcgctccttg tggcaattgc atatatgaat gccgttgaag gacctctttg 120
ggttgcggtt cgcggaagg gactggcgta tggtagact ttcgcctaca acatagatac 180
gggtttcgtc aactttgacg tttaccgatc gcccaatgcc cacaaggcct tcgagtcaag 240
caaggatatt gtacaagcac atctttcttg ggaggcccc tttgaccgt tgatgtttga 300
gggcgcaatc agcagcattg tggtcacttt cgcaaatgaa caagtaacca ccgccaatgc 360
agctcagga agcttcattc gtcagggttg gcgctccttg ccaagtgatt acaaggagag 420
aatcctccgg gaggtccgtg ataccagcgt tgaggatgtc aagagagcac tgcgcgagat 480
aatccttctt cttttctcat ctgacacggc gaacattgtg attacgtgca caactgtgct 540
tcgagaggta tacttgtttt tcttatggga tttgaaaatc agattactga cttcacaat 600
agacgataga gagtggcttc aaggaatccg gtttctctcc aaaggtccag ccgctcaagg 660
aatttgagga cgactatgga ctcaaagtcg gagacggcag cgatgcagac gacgacgatg 720
atgacgatga cgacgatgat gatgatgagg aggaaggtga ggaagacgag tcagaatcgg 780
aggaggaatc tgacaataac gatgacgagt gatactattg taacacggag cgaggctgga 840
tggtacggtc taagactaag gactgtcgtc tgtatagagc aaaactatct cagtagaggt 900
gcacgtctag acgagctcat ctggagtgc tgtgatttcc accagtttgt cagatatagt 960
cgtcagttta taaaccacg tcgccggcca atcggttctc atggcataca cattgctgac 1020
acgaaacata aaactggtat aagtagcaat cttcatcgtg tgtgggttct atatcgacat 1080

atgttacaaa aagctcaaaa tgagaagccc tcgtctcctc taggattaca aaggacttgt 1140
 catatcactg accacgaaag acgcgtgtcg gtgaccatga ccgcctcaaa ccataaatat 1200
 acaaaccgac aatcctatag tctaaggcac aaggctcaat agaaaagcga atgaagagaa 1260
 gggaaa 1266

<210> 2477
 <211> 2209
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2477

ccggcgcaag aaacatcagc agcaccgggg cgaacaacat gcagtacagt aacatacaaa 60
 cgagaatatg ccggccagta tgagcaatat gcaaggcacc accaatatgc ctggtagtgg 120
 gggtcaccct catatatgcc agagtatgtc tggccaggag aggggaatgct ggttacgaac 180
 ccgatgttga aggggtgtcaa tctgaacacc gagggcgaca tggcgagggga ggagggcaaa 240
 gatgcgggata tgggggatgc gagggcgagaa ctgatttaca actgggaaag cctacatata 300
 agtaacaaag ggacacatgg agacttgaca gattcgtagt agaatttaga ctcatccaga 360
 atcctctttt ggcaattgta ggttaatctc gaagatttga taatggataa gaagcctagt 420
 gtaagccatg atatttaata gtagacgtaa aagggtattga gacatcaatg cgggtatttg 480
 acagctatat taaaaactag tgttgagaga gaaaacatgg gcacgaaaac caaccggggc 540
 tgttctgggt tcagtctttg ggacgaatat tccagccatg gtcacgccc cccacattca 600
 cttgtagggc tagaatcgag gtctatttca ggtgtgatct aatccgcaat tctagactcc 660
 ttgacatcac ccttacctcc tattttcaga gattgtggag gtataagatg gagcccgatc 720
 tccccttcaa gcatgaaggt agtcacaccc caatataacc aaagggctct caccgtctca 780
 aagtcctcgg atacctggga gtcattcgtg cttcattatt acttattata ataaccgatc 840
 gagtccttct caggatgtcc gactaccggc cgaatacggc atatgcccag cgacatatct 900
 acaccaatcc gtgggttgcgt aaaaagacat ctctgagcca gagccagaca cttactgttg 960
 atgccgatct tgatgccgac gccgatgccg acgccgatgc agacgcagaa tctgaatctg 1020
 aagagcagtc tgtctctggg acatctgcat ccaagggaga caaggtgggg gaggacctcg 1080
 acttcgatga tgtgaacaca ggcgaggctg atgatgactt tgggtcaagg tagagggat 1140

ataaatttca ctggtataaa tgaaagatcg aggttcaacc tgtataggca gagtcctaaa 1200
 tcgatcaggc gaagagtata gcctgtctcg cttatcagga ggggtcatcc ggattacaga 1260
 acctcttcaa accatagaat gagtcttaac cataacaaga ttgagttacg agtcctgttt 1320
 ctgacaacga tgtccgttag agctacgacc taggccgca gaaaaagccc tgcgacgccg 1380
 gcctaagtga aaagtccggt gacgagctcc tgacatcggt ttgccttttg acatcaagggt 1440
 tacctgtatc agccaacgta ataggccgta ttattgatag tagagtgaca gaccaaataca 1500
 tatatctagg ctctaggcat tcctctctct atcctgcgac tgaagatata tatgacatga 1560
 tatatagcgc ccgcctttgt ctaaatacat atatcatcac ctgaaaaata gtgttattct 1620
 ccagtattca ctctatcacc agagtcactc aatggatcag gacgagctag acctttccga 1680
 ccacactgca aggtccaaca gattcgagaa ataccatttt aaaccacccg catcgctaaa 1740
 tccaggacac ggccaagtca gcaacattca aaatagcagc agtgacggcc tccaagaatc 1800
 ctattactct ggaaacattc agggcagcga tccacgagcg agcaacatgc aaggccaccg 1860
 ccaacctcag actacggccc agggacggta tttctcagca tctccagctg aggagattga 1920
 tgactttgat gatgaatacg acccagagag tctagatata ggagctggcg gaaatggaag 1980
 tgggtatgagg gagtggagtg agagggatta agtagctagt ctagactggt ttggataaaa 2040
 gcgtaattaa tcatggtgct tcattctatg ggtttccatt tatgatgagc gtattattca 2100
 aagattttag agccgtgagg caggtagaaa ccgtaaaaga gggcttgata atcctagggt 2160
 tatatggcta gagccatggg caaagactgt cagataactg tccctgggt 2209

<210> 2478
 <211> 1362
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2478

atctatgcca aagtaccatg gttcccataa atcatggtac gacaaatgaa gaaccacagga 60
 cggcgatacc ggcttgaact ctttccagct cgagtaagac taggccacag aatgattggg 120
 cgcttggtgt attggcaaag ttgaaggcga tagttgtgct ttggcctctt cttttcatcc 180
 ctctgctggt gtagccgtgg gaagaactcg acataccata cgatggttgg tcgaatacgt 240
 gatagctggt tgccgtcact gggacaaaca aaggagaacc cgctacgta accttcttca 300

atcaccacaa agcaaaccctc tggaatcaaa ggccggaaaag ggcttccgcc ccccggtcat 360
 tgggtgctttc attccagatt catggaacgc cgttcgttgt gagcttattt gtcaacgtga 420
 gcgccaacgc caaactcacg cactgacttg cggctgtcaa tagacagggg cgcagactcg 480
 gatagggtaa gctcgagcgc agaacaaact cagacaaaga acctgcaagc gtgggtcaact 540
 tgagcttttg cagtttctgg aggtgaagaa ttggatctag ggctgggttc tttgttgacc 600
 acgggatcac agattcggtg tgcaccaaag caccaagtag agttatgagt atcgagctat 660
 tgaatgcaga tgatttgtca gctcgaaact tggcttaacg ggcaatccgc ctccatgtga 720
 gcgtcagttg tcacaaacct gaggtcctat ggagcagaaa tcgatagctt ggttgagctt 780
 tgggctctcc accggtcctg gaagtctggg acgaccttgc ccggtgccct tttgccctca 840
 gcactggaga gcagtgaaga gaggcgcgct caaggctggt agcacgaaac ccggtcatac 900
 tcgggctcct ccagatccct attcgtgaca gatcgggggc tatgatgctt atggaaccat 960
 caatgtggtg ttgactcgac agacagcaag gtaagaataa aggtcacata attatgcaca 1020
 taatagtgtc gtacgggtcac ggtcacgtat tactaccgtc gtaaaaagta aaacacgcac 1080
 gttaaacgcc tcaggcaccc aggctatgcg gcgggcacac cacggccgag cgatcgggaa 1140
 ccacagagct gaaggtcccc gaacgggcag attgaagccg atcgggaggc atccaatcac 1200
 aaccatgcaa ttaaaggccg gagtttctcg acgtcgcaac caaggccaag ggttcggctc 1260
 agtacgacct gcagttcatc gcgaggatgg aattggcaac gtaatggccg ccgccggttc 1320
 aactgcaga ctttcagctg ctagtgttac ggcttttgtc tg 1362

<210> 2479
 <211> 3704
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2479

gaccaaattt ttgccccag cttgctggat aatcgtgaat ttctcgccct ccccttctgt 60
 tttcacatat ccggcgagat ttctcatcat agcagtgca tagcacgct gccactcctt 120
 ttcccaaata ccttttctac ccctttgctg cttccgcaat ggccggcaac acccccgcg 180
 ttccgttatc ggcgacctc ccgccgtga taatgggcac cgcgacctc aactcgcagt 240
 acaacgaaga cccctacgcc cttccgacga cggaactggt gcaccgcgcg ttccgcagtg 300

gcgttcgtgc ttctgatact tctccctact atggccccgc agaagacctc ctcgcccgcg 360
 ccctggccac agacttcgta cagtcgaatt ttccccgaag ttcgatcac cttctcacca 420
 aggtcggacg gatcgccggc tcgtcgtttg attattctcc gaaatgggtc agaaaaagcg 480
 ttgccaggag tctgcgtcgt cttcacactg agtacctgga cgtagtatac tgccatgatg 540
 ttgaatctgc ctctccgaga gaggtctctg cggcattgctg cgagtagcgc cggattcgtg 600
 atgcagaggg tacgattcgc tacgtgggta tctccgggta cccagttgat gtgctgtgtg 660
 acctgaccga attggtgttg cgcgagaccg gcgaccgct tgatgtagtc atgtcttacg 720
 ccaactttac cctgcaaac acacgacttc tgacgcaggg tctaccccgct cttgtcgcag 780
 ctggtgtgga cgttgtcccg aacgcattcc ctctcggcat gggctctattg cgaagaaagg 840
 gcgtgccaat tggcagtatg ggcgatttcc acccagcacc aaatggcctt cggacagcca 900
 tccgcaacgc cgcagagtgg gcagataccc aaggcgaaaa gattgaagtt attgcaatcc 960
 gcttcgcgct cgagtcttgg ctgcgcgacg gtgcaaaggc aggcgctctc ggtccccctc 1020
 tcgcgcgcag ccctgactca gacccgagct tctctccgc tgcaaactg ggcacaggcg 1080
 aacgtttggg cgtgagtgtc atgggcgtca gtaacattga ggaattaacc gagactcttc 1140
 gtgtttggca tagtattgtc gacggcctcg agaacaaaga cgacgacgct gaggatcttg 1200
 aactggtggc aaatgcatcc actgtccctt ctgcaccag cgcaccagcc atcctcacac 1260
 cctccgatgg tatcatcaca gaccgctgt ggtcccgca gcgcgcgac cgtatcctat 1320
 atcttgcaaa ggagatccag tctatcctct cccctatgtg ggtggattat acatggccca 1380
 gccctggtcc agacttcgta aataccttac cagccgacca tattgccgca ctgaatgagc 1440
 aaccagagaa accggacaaa aacaatgcta tgatgacccc tcccttggtat gcgcaacggg 1500
 agatcgagat acccgcgac aatgttccgt cactatgagt tttaacgatt tatctcatgt 1560
 ttatagagca tttggcgggt tcgatttctt cacggttaag tcatcgaaca caaaacccta 1620
 tccagagcca agatatttta tgtttaatac ccaattgtat caggttcagc cgtgtcaggt 1680
 tcttctatta tttctagtta aatagctacc ctaccttgg acgcagaatg ccggtcaaaa 1740
 cgtcccgac aagtcgcgct gcagcccatg cgtaaggata atttcgttga taccagttca 1800
 cactacatct gtattagcct tttccaggaa ctgaatacga taatgggact tacaacgtcg 1860
 tctcccaac aatccgcgga tgagtcgccc acgaaccacc gaggattata ttatgctttc 1920

cgtcgaagaa gtcggctagg aagagaataa gtcagtgaat gatgcagacg agtgtgccta 1980
 gaaggaaaac taacaagtat agcctgggta aatctccatg gctttgaacc catcatgggg 2040
 ctccaaaggt gacgaagtcc actcccaaac gccgccgagc tctgcgtggc cagccagttt 2100
 atcgccattc tggatcacgg gcatgggatg ccagttcttg aaaccgacat tgcaagtcgt 2160
 gaggtcgaga aaaacaggtg gagaggatgc ggatgcagag ggcgggagga cgggttgggc 2220
 tgtagaagga gcaattttga cgggtgccgtt tctaagatgc ggtttgtggt agccgttttt 2280
 gagtccgttg ctagctgcat ccgcgagacc gtctgtaaga gttttcttta gacgagctga 2340
 gtgtgcatag atgcttttgg cctcctcgaa cgtcggcagg cggcaattca tccatgaagc 2400
 gtattgttga agctcgtcgt aggatgcaat gactggccag tctgagcta gctcaagtgg 2460
 aacggggccg aagaccgtgc gaacagagaa gtcagttaga aaatcctcag ttgcggtgct 2520
 accgttcgca actccatctg cttgattggt cataatccag gaggcaggcc acctgtgaat 2580
 ttggttcttc tgaaggtagc gggcatattc accattggta acgggcctcc cttgcgcttc 2640
 aaatggttgt accgttacat tgcgcttagg tatttcgtta tccaaccga atgttgacgt 2700
 tggcatcaag tcctctgaag agtcaagccc tatagatagg gtttgttctg gtatagcgaa 2760
 ccattcgctc ggcttcgcat tttctcttgc gtcaagaaat atcttcttga aatccggcgc 2820
 ctggataccc ggcggaggaa ggactctctc actctggatc agcatgtaga ggaaggtctc 2880
 caagtgcatt gcctcgtgct caaacccgat ccaaagggtc tcaccagcg ttctgttctt 2940
 ggacaggccg ggtatctcga gtgtggatcg tatcctgttt ctgaccggt cttggtaatc 3000
 taggatttct gaacgagatg gccactcgtc cggaatttca ctgtgagaat ggacttttc 3060
 cggatcgtca acgtcggggt cgatgccgcg ctcaaatac agttgatatg atttagggtc 3120
 tgtaggcttg ccacccaaag cacgggtcaa gtgaatatct gaaagcttga gtaagcaata 3180
 gccaattga agtccgtctg cgatagaact taccagcgaa cgtgggaata tgtcctaggt 3240
 aaaatatcag ggaatttcgt agtttaatcg gctttgaaag cagctcttct tgtgggatca 3300
 ttgctttggt gactatatcc catgcgggtc actgtgcctg aaaatcttcc agactgggaa 3360
 taggaccagc agcatactgg gagggccgca acggtaagtc taaagctgcc ggctgcagga 3420
 gatgtaaatc tgttcccatg agttaatatg gttttgttac atgatcatat gtacgtacgg 3480
 tagtcctcgg aaccgcttcc aaactcagcg gcttctatca ggccagcgtc gtgccacagc 3540

ttctcgctg cttgacaccc gtacttgaaa gcctcctcga agatgatctt ttcaccaggc 3600
 ctgagcagca catcacagaa ggacacgtcc ttccttggtg catagaatgc ctgggtgcaaa 3660
 ccataaacgg catcgtattc ggtaacaact tcccattcat gggt 3704

<210> 2480
 <211> 1237
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2480

cagtgccgat gatgagaact ggaacgtcca tggatgatatt tgagaggaca agacgcaata 60
 atcttgact gctgatgctt ttgacgatgt gtgcgttggc gtcgattgca aataaaaaca 120
 gaggaanaag ctatccctgt cttccgacga cgagacttta tttagcaatg aaaccactca 180
 tatgataaaa tttcatttgt atgctcacct ttctttgctt tggtagcatt gacctacca 240
 ccagattgga ccatcgaatg ccacattatc cggtagggag ggggaagatg ctgtgatcat 300
 cttgttgctg agaataaat tgtgacatca aggggagctt acccggttga gtggatggat 360
 agcctgcgct tataagtccc tgcattctgt gagaatagag gtggaaagt attcgaatcc 420
 cacagctgcc gccaacatga tcttcgctca acttccaacc cttacagcac aggttgttca 480
 ttttatgcag agtcgtcttt tgctctgtat cactgccttt gtcgtattat gcattattca 540
 caccgtaagt tcacatcaac gtcttccaaa gtggttcatt ctgacttggc ttttagtttc 600
 tttatgcctt cctgctgtct cctgtcagac atgtccctgg gccatgggtg gtcgtgtgt 660
 caagaattcc tctctgttac gccacatggc agcgacgtcg atcaagatac gcctcagacc 720
 tgettcgcaa atatggctgt cttgtggtca ttgccccgga ccagattcac acgagcgacg 780
 agactgcgat gaagacaatc tacgcaaagt cctccatcaa gacgcgtttc tacgccggca 840
 tggggtcctg gaaaggcgta aagtcaacct ttggctttgt ggactaccgc agcgtgcac 900
 caaccgcaa taatcttatt caatgtttcc aaaatcgga tctcgacact cttgttgata 960
 gcatggcttg ccatatcact gagttctgag acatgctcaa gcctaaaagt gtccaacaca 1020
 aagccgttga tggagtcgtg attttccgcc tgctggcctt ggacattgtc accgatattc 1080
 tctgggttga gaaagacact ttgctatcga aagcttcgat cagcgctgtg gttcctcgtc 1140
 gttcatgcgt cagctcttgg atgctctaaa agcttaattc tgggttgaca cccacgtcgt 1200

tcttaggtct cgaacagcgt aattggaggc gatgacc

1237

<210> 2481
<211> 796
<212> DNA
<213> Aspergillus nidulans

<400> 2481

tttccgccac cgtttgattc gcaaaacagt cgatcattag ttcattggga attaattgat 60
cttcttttga tgcaggaaat cttacagctg ttgcttggct ctgagacca atgactcgcg 120
gattttttgca atttgcacac aactcggggc cccgaagtcg gcctgatccg atgggatttt 180
ttcgactttt cgggtgtgcca agttgtagta gtcattgctc accatcacat attcaaccac 240
ctaattaagc cggattgctt gagagagcat tgcctacgac gtctctcttc ttcaagaaca 300
tttctccga ttccaaaaca gtttgttcag caattgactt gtgtcgcatt ctgcttcggt 360
tattcggggc cctccgactt ttgagtctcc gattctttgg cttgttttcc ccgcaataat 420
gttttcaaaa tcgttcgtca ttcggacccc ctgctcgtcc gcaaatttg gccctggatt 480
cgatgtcatc ggtcttgcac tgtccctcta cctcgagcta caggtgacca tcgactcttc 540
caggacgtcg tcgcagcagc cactcaattg tgtcatcacg tacgatgac aaagcaacag 600
ctccgagaag atcagcctgg acccgagggt taatctgac acacgcgtag cctgtacgta 660
cttagatgcc atgaccaaag agctttcccc gttgagaccc gggttcatat tgtaaattccc 720
atcccgtgg gtcggggact aggttcgtca ggaaccgtg tggttgccgg tgttatgctg 780
gggaatgaag taggtc 796

<210> 2482
<211> 2144
<212> DNA
<213> Aspergillus nidulans

<400> 2482

ggccacggac ctgcgtccga ccctttgcgc cggctttgcc gtaacttgct tttccgcttg 60
tgcttgatcc tgttctcatt gccagaacct gacgcggatg ttgaagttga ggctgccagc 120
gaggccact tgctcttcgc agcaacatgc caccacagca cgctcaagaa acaattcaac 180
gtcttcaccc accccccgc aacgccgacg acttcatccc ccgcaataga gacgagccag 240

ccccaaacct caacgctaga gaccctcacc tcagccgccca agtgcgatcat accggctctt 300
atatacggca tgagtgttcc cacatgggtct tttacgtcat gttgcgggag tgcacggagg 360
agcttaagca gatttgccgc gactgaggca ttggagtcta ggatgagggg aaggagagac 420
ggtaggatca cacttactgg ttgcgggggt gggagggtgg taggttggct ggtgagagtc 480
gttggttaggt gtgcaaggga gtcgcggcgc tgagagtctg attttgagga gaggcctaaat 540
tgggggtggc tgaactgggt tgtttgcgga tggggccgct aggggttagag aatgttggtc 600
agggttattg cttttgatca ttagtacacg ccctaagatg aggggtgatgt ttgtgactgg 660
agtaggcgag agctagacag cagctaggca ttagcatta tgccgtacta tgctcttcca 720
cctgtccagt acagtcgatc cagcccgat atgggaaaga gcctcagaag gcgagcatac 780
ctttcgactt gaaacttgta tctgtaaaat tgtcaggctt ggcctttgcc ttgccgacct 840
tcaactttgg tttctgcggt gcgttagaaa cgagttccat agatgggtaa cacaacgtac 900
ctggaagtcc ttctgtttct cttcttttct ctgggtgctg gcgcccattt tggctagctt 960
ttctgagtat ttctgttagc taaaatccac aaactccgca gattcacgta taatagacca 1020
atataatggg tatggagctg attgttctat taaagcgta ttgaattttg tgttggtagg 1080
tcaatgattt cttcagtctg agatgccgga aatttttata ctgtcacgtg acccacatga 1140
ctaagcatct gccgccagtc ctacaaaact acacagtact attgattcag aggatgatcg 1200
atacataaac atcataatct attagactaa agcaaggaga tgcgcacttc tgcccggcct 1260
gacctcgaat gcaacaacaa acataacaca tgaacacaaa acaaaaaaag cagacagacg 1320
aaggccaggt accggacaga cgcggttgta tcaagcaaaa atcacaagtc aagcacaaaa 1380
catagacgtg acgatcctga caaacgttgc atatctcgaa tcgtcagtca gattaagacg 1440
taaataagac ccgaagaacc gaagacaaag acgaagaccg agaaccgtag accgtagacc 1500
gtagaccata gacgaaaccg aaccgaaagc gcgtcactcg taaccatcaa ttagcatcgt 1560
gaagccattt gaccggctgt cccgctcgat caccaaacgc ctgctccagc gagaaacca 1620
gctcagtggg agtcatcagg tctatgtcgt ataaaatata atcgcaaaag aaaagggtta 1680
ggaaagagat cacacacgtg agttggcccc tttagaagcc tacaaactca tcgtcaacca 1740
ctcccattec tggcttgccg cctgaccagc agcgatactg tggttggctg ggttgacggc 1800
cgctggaggc atagccggcg ccaatggaac aaccttggat cgtccaccgg acgaggtact 1860

ggacgggctt tccgccatat caacatcaga ggcccttttcc agcctacgct gacgttttagg 1920
 agccacctgt accgcaccac aaccgttggt tgtgcccgga gacgtagtcg ccgctgagct 1980
 agatttaggc ggggcagccg caataggaac gactccagag cctcggcccg agctaccg 2040
 cattgctggg ggagactcgg atgtcgtatt gctttgggcc cggctcgagg taggcgccat 2100
 agtagtgccc tgctgagccg agttcctgcg ggctgacttt tgga 2144

<210> 2483
 <211> 2123
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2483

ctcttactgt ctttcgactc ctgtcacgag ttcttcgccca ccctgggtca ttcaaacc 60
 gagctcaaca tcctcgaagt cggggctgca ctgggagtcg cacggcgcg tttctggact 120
 atctgcacgc gccagatgga agtcggatgt acgcgcggtta cacattcact gatgtctctg 180
 ctgggtttct agcagcagcc aaggagcagt ttctcgcgata cgatacaatg gaatacgtg 240
 tgctcaatat cagtcaggat cccgcgcaac aagggtttga gctgagcagt tacgatctaa 300
 tcctgcctc caatgtaata ctggtcctgt ggtatgcggt tatgtaccct gttaatcata 360
 taattcctag gtcgtccatg caacaccag tctgagctgc tcctggcca acctcaagtc 420
 ccttcttgcc cctggtggcc gcttgcctc tccaggagata accgaggta cgtctcattc 480
 atccccggag cgtttcttag agttctaagt ttgacactgc aaaagaatgt atattggctg 540
 agtacatatt cgtatgttaa acttcttcag ctttctctt gtttatgctg atgtgatgta 600
 gggctctgctg cccgggtggt gggtaggcga acacgaccag cgaatcgaga gaccgtacgt 660
 actagtcgat cgctggagag aggaactcac aggagtgggt ttcaacggca tcgactttgc 720
 catccacgaa caaaacagcc cggtcgtgaa tctggtagcg acctaccca cgacccgct 780
 gggagcaaat gctgtaagcc tactcgtaca ggagccgca tgccagtggg tattagatgt 840
 tgagaagatc ttccaaaagc aagggtataa agtcgagata tactcactag accaaccgcc 900
 accggctgaa ggagaggtg tatccctcct tgacgcctcg ggaccattcc tattcaatat 960
 gacggagggg gatttccagc agttgaagaa ctctatactc agtgccctcg ttaagcacat 1020

cctctgggtt agcaaatgt cgcagtttac ttcaagcgat cctcgatacg ggctaatacca 1080
 cggattttctg cgagccttac atttcgaatg tcattctgaa ggcaagagct tctcaacatt 1140
 tgacattgaa gaattcgacg aacggtccat ccatagtctg ttgaagggtcc acgatcattg 1200
 gcgccgggca gcaccgtctg aggagtctag aagagacgaa tatgcccttg tcgacggcgt 1260
 tgtccagggtc agcagggttcg aggcaaccga tattgagaaa gagcttcaaa tccccgtgga 1320
 agatacggct cctagaaggc tttgcattga aaccactggt ctcataaatt ccttgtattg 1380
 gaagcaagac caacacatta tgcctggaaa ggggtgaagtt cggatcagag tcgcatatgt 1440
 tggattaaat ttcaaggcaa gtcctcagac atccatggcg atgctaattg gctgacacaa 1500
 atcaaggaca ttatcacgc cctaggacta attgctctc ctgaccagct agggctggag 1560
 ggcagcgggg tggtcgagag tgttggcact ggtgttacca atgtcagcaa gggagatagg 1620
 gtcattttct tgggccagg gtgttttgca acccacgtta ctgtgccagc tgcaaaagct 1680
 ataccactcc caggcaattg gtcgctggag gagggggcaa cgtcgccgat tgtctctttg 1740
 acggcggctc agtgtctctt acgactagga aatctacgac gagggcaggt aggttgatat 1800
 gctatggccg atgtatagag ttctgacacg ctgggtcagt ctgtattgat ccacgctgcg 1860
 gccggaggcg ttggaattgc ggctattagg atctgcaaag gtgtgggagc gaaggtagag 1920
 attttttctg aagcgtcgtc aattcacact gacagacaat agatctacac aacggttggc 1980
 aacgacgaga aagcacagta ttggtcgac acattcggtt tcccacgtgc gcacatcttt 2040
 cattcccgca atgcatcatt ctatgatgac ctcatgctg aaaccggctc ccngggggcg 2100
 natatcgttc tcagctctct cag 2123

<210> 2484
 <211> 1460
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2484

tcctggagct ggttcttgac tttttctgag gtgcatcaag aacaatacgc cgtcactatc 60
 taggccttgc aggagcagcg aacaggcctg ggaatagagc gaaagggtct cattaccgac 120
 tgagagtgac cttggcacag acacaaaatt gtcggtggtc cctggacact ttcgactctg 180
 ttgagaattc gcatctgaca gggtaggcct ccggcttcgt gaagcagggt tatgtgccgc 240

ttcattgcgc gaggtcttcg gactcggagg actatccgat cgagtcgtat ccgatagaga 300
 gagtcgcgcg atatacgaact cgctcgaggg aacaccgttg gcagttctgt ccggctttct 360
 gaatgtccag tccgtcgcctc taagccgcgt ttgatccttg acaaactctca acaacgcate 420
 gagctgccgt tgggccttga ggccatcttg cagtgccag aaaccatcag agccctcgac 480
 agactcgggc gagagtagag attccatata aaatctgcaa gcgtttgccca cagcctttct 540
 atgatgtttc ctgggcgtct gataaaggga ttggtggcat ttcacgcgac cgtgggggtga 600
 ggaggggaag cttgtgctat gatcattcat cggcactgtg attgtagatt atagcatcgc 660
 aaattgagga attttcagcg aggcaatgtg cacaatcgac tccgcatcgc ctggcaagtc 720
 taaatagtcc cggaacatc agacgatatg gaaccatggc acaagccgcg aggcggaaga 780
 gggtcagac catgcaccat ggtttaaact tgatgtcgat tctcaatgaa atctggttca 840
 ccagtcaaaa tacagcattg ccatcgccac ggcaaaggag ctcttgaggc tacttgcgcc 900
 tggctcccg aggccgccta ttggttcttg gtggaataa tattgagtat tatcaagatc 960
 gttggagaat catcgttgac aggtaaacat tctatcactg tgaggagatg gagtccaatt 1020
 gacatgattg ctgggtgctt gaatcaagat agtggatgat ggcacgaggg ggtcagcgac 1080
 tttcccttat cggctccgtg actttcattg gtgtggagta tatttccagc tcttcgattt 1140
 cgtcaacatt tggctctggct cgagtttatt cttgatatat aatcaaccgg ggaaggatgat 1200
 tggccttggtt gcctgttaac caaaagtcaa atagcagaac gttgacgcag aggatatgcc 1260
 tacacccgag ctgccgccgt ccttgcagta ggctcttctc agaaatgctt aacgcctata 1320
 gaaccacatg cttgagtcaa tcaatcctct tgaaatagaa tttctgacta gcgggtggttg 1380
 caccactatc actatcgatg tggttatact aatgtggagt tgtcagactc aagactccaa 1440
 gcacttagga atccatccaa 1460

<210> 2485
 <211> 1954
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2485

tgtaggcgga ggtggagatg gaggtgatga tcgcacacgc gtggaatccg agttgacgcc 60
 gaccgggcgt cgagagtgtc gcgtcccgcc gaccgcgctt cggattaatc ggttccggtc 120

ttccggtaca ccgccttttc ctcgtagctc agtcacccac tgctgatcaa ctacatcgta 180
 tgattcgagt attcattatt tgattgatca ttcatctaatt ttatttaatt attcagttca 240
 aaattggcgc agctcgcatg attttgtctc agctctgtct gatatacttca tctgtagagt 300
 actctgcacc ggccactgcg atactttgac tcgaccttga atccacatgt gttgctacta 360
 atatgatcac gtgcaaggga caccatgtgc cccatcccaa tggcatgac gcactctgcc 420
 cgcgcaacct cacggaggca gaccaggtac aacgtgtcgg tctcccgta agcactacaa 480
 tcagcaacat tctgcgcttt accgtcgccc gttccatcag gaacgaatcg cttcggcagg 540
 ggtatgcggc tttggctctg ctccagcacg tgatctgggt tctcaatata ttgaacatgc 600
 ctctaagccg aaaagggcta acccctttgg agaggtaggt tctgactaat atactgggtg 660
 ccgcaatatc tgtcttggca aggcctcacg aagaaaggcg ccggtcgaca atgccgtata 720
 cgaatctcta ccggcgagcg catagccccg gtagatgggt gccagctctc cggtcgcga 780
 tgctcatgac tgtcgcgcct gcggtttcct tctttcgccc ctgcgcggg atggcaggca 840
 gtttataccg taccagactt gcctaccaac gttatagact ggcttccttg ttcggtcgag 900
 aggatgttct cgtagtatag gtgtctcagt acggaattgt ccgtaaactg cacgagatcc 960
 aatagagatt cacacgccgt cgtcattttt ctctataca cattcacagt atggaattga 1020
 agaaagcagg actggcaaac gttgctatga aacctctgcc tcggcgccct cgatcaccag 1080
 ccgcttggca tgagctcggg gtcagtagcg cgtcgataat gttcacctcc agaggcccag 1140
 tggagtgcag ccggtcgggtg catagtacga tatagtcttc gccaggagaa gcgagtgcag 1200
 taagccgcct tcaggccaga gctgatcgtg gtgatacttt gggctcttcaa tgtacccgcc 1260
 ggcgttgcta gtcgcggtag gtggcgagc gccgaaatcc aggttgaacg ggtcgcctcg 1320
 ttcggcgctg gatcctgcgt gcgcacagga tattgggtccc tatcccgcca actttttgaa 1380
 actacccggt accgtcagta tagacgagga caaaccttca gcttaggata cagccctttt 1440
 gcgtcgtgac gccgacaggc tccaaatcca ggtactggat ccggttcgaa aatgacaacg 1500
 ccgtgatcga gtcgcggtag ccccggtaaa ttaaaccgca ccgtaactac ccgcatttgc 1560
 agccccggac gatcgcctctc ttttgttgcg tccgcttgta gggggctttg gaaggagtcg 1620
 ccttctgata cgtcttgaca gcatgttgta gaagtatcgt tggatgaaggc gatagctgca 1680
 cgatccggct ggtgaagact gaaatgacaa ctctgtcata ggtatgcctt tctcataagg 1740

gtgcagccag attaaatata tacgcagggc ctcatctcgc tagcgcgtgtg ctgcaggtgc 1800
ctacccggat tcttccaata caacccaaat gacgaccttt ttcagcctca tcccctgctg 1860
aacctcaacc ccggatctca gcttggcgag agagtacaat cagttttgcg gaggatcagc 1920
cgggctgtta aggccgcgac aaaagccatg gcga 1954

<210> 2486
<211> 1108
<212> DNA
<213> *Aspergillus nidulans*

<400> 2486

gcaacctcaa atatagggct tgttccgggc tagccttacc gtactaggtt agtacctaac 60
tgatttttag taaagccgtc tgctgactgt ttaacgttcg attgcatgcc aattaccatg 120
ttcccgtcc cgcgcccagg cgtcgaaccc aatagagcag ttctggcgac ctctgtaaga 180
cagctgagta tgggcgcaga gcagactgtg gccagatcca cgagaacggc tgcctgattg 240
actactagat gattgaaagc attgcgtgtc gtgatgtacg gtctccaaaa ggtcgaaagc 300
agaatctggc aagatattca ggactcctat cgtgaagtat atggaattac attcaagaga 360
aagggcgatc aatctgtcct gatcacaacg tcatgaagat attaaaaaca ttggccagtt 420
catcgagaga aaccttctcc gtgcagtcgt agagatctcg tcttcgctga ctttcacccc 480
cgaaagcctg ggtaaccgtt ccaaaggggg atttcgtgga cggcccgtag cgccttgctg 540
taaagccttc tgtcacagtt gctcgagtga tagcgggcca aggagcctgc ccgtggcaga 600
atttgaaaaa gtcttcagca aacgcagttc caactgcttg ctgttctgcc gacaagaact 660
cgcggaatt ctggaagagg tacgaaacgt cgagaatgtg gtttggttcg cttttccact 720
gtccttccca tgggtttccc tcgttgaagt agtaaagcga cgcgtttcct ttccatcctt 780
gcgcgaatga cagaacaggg gtgaagaaca agacgtcatt gatatagttc agaacggcag 840
ggtaagcgtc atcatcgctg gcactttcat cagtaatgcc gtacgatttc aggattttcg 900
tcgaccacgg ccggttgaga ctggagcgcg gtcttcagag ccataatgaa ctttctggcg 960
cacccaatct tggatatcgg gaataagaat gcgatgatgc ttgcctagaa cgtgattaag 1020
tcagatttgg tacatatatg atgcacttac atccatctga gaatctccaa tcatgaggtc 1080
gatgcaccag ttcttccctt ttgggacg 1108

<210> 2487
 <211> 983
 <212> DNA
 <213> Aspergillus nidulans

<400> 2487

```

gtgacctgct tgaagggacg gtccattgag aggggttccc cacagcaaca aatggaattc   60
agggtctcca tatcacggcg gccagatcca ttccaagcac aagggttgta acatgtctgc  120
tttgcaatat cttggccacc attccactgg tgtgggggag gaaaataaag cattaggggtg  180
agctcattgt taaaagaatc aggaccaatg gaccctgttg tcgaacccca tcttagcata  240
aaacgccgca tataccaaaa agcactcgag tgtatattgt gtttcgtgca gcggaaaacc  300
tagggcatga gccgatgaag cgtgaagtaa aacagatcta gcccgtaca tctgccacca  360
cgccgagact ccaagatcaa agcatttacc cgcaaaggaa cctctctcta tatccgtccg  420
aagaagccat aaaggacgac gcgagagaag aaacggaagc aaacagggtg tgtataacta  480
aaggataaaa aggcggttat cgggagaaaa ggagaaaaat acgacgtggc ggcattctagg  540
atgccctggg gaaacagttg caacatcagc ggtatatctg cattccaatt cccgaaccgt  600
actgggctcg gtacacagaa atgataaggg gtatcggcaa tgcgccccat ccaggaaacc  660
aagctcatcc accacgctaa agaagagaaa aaaaaaaaaa gagtctcaaa ccatgggcac  720
atcatacatg caatcctgac atagtgagga tcatgaaggt aatatcagac atcataccag  780
cataacaata taaacagaca tgaatggaac gaaggaaaaa agatacacat tttccaaagc  840
cagccacca gaagaaatca aaaagacgat cgcgcaaaac tcagccatct tcatccgagg  900
gaccgccgga ctctgcctcg ctttcgtcgg cattgttact ggctttcttg gcgccgtct  960
ttgctttctt cgcagagtta ggg                                     983
  
```

<210> 2488
 <211> 2453
 <212> DNA
 <213> Aspergillus nidulans

<400> 2488

```

tctagtgcct tctgttatag agtatatcct acctatgcta gagacagggc cattgcacaa   60
gacacgtaaa ttagtttctc tatcaaggat gaaaccgctt ttgaagacca aaaatgtaca  120
  
```

tatacaacta taaaccgggc aggacctggg aattgagaca aagattctag gtaggaggta 180

tatccaagat gaggttctaa atctttatca cattcgtttt caggcgtggc gaatagggtg 240

aggagttagt tgagggtggc ggtggcttag aaccgcaa at cccagccaat ctgaggacct 300

aacttgggaa gagactcggc aacactttca acgtctttat cacctctacc actaacagta 360

agaacgatgt ccttaccctt tcccatggc ttggcaagct cgatagcacc ccaa atggcg 420

tgcgaggact caagagctgg gatgat acct tctgtctgag ccatgggtgcg gaaccagaga 480

gagcctgggc gtccgtagcg gcaataaagt gcgcgcggc gctgtctttc caattgctga 540

gctcggggcc aacgccggga tagtcaagac cagcggaa at ggagtgcgc tcagagacct 600

ggcgtgctc gtcttgagg atgtagggtgc ggacaccgtg aagaacaccc ttgctaccgc 660

cggagagggg ggcgaggtag cgatttgtgt cgataccgtc accaccggct tcgacaccaa 720

gaagcttgac gctagtatcc ttggagaatg ggtagaagct gccgacagcg ttgctaccac 780

caccaacaca ggcgacgac gcgtcaggca actttcca at ctgttcttgc agttgctggt 840

tggtctcttc accgataact gactggaa ag tgcgcacgat cgttggaat ggatgaggac 900

cgatagcaga gccgatgat tagtgggtcg tatcaaggct aacaaccac gcacgcaa ag 960

cctcgttcac agcgtcacgc agagttcgac tgcttgcac aacggcgacc acggacgcgc 1020

caaggcgctt catacgaaa acattcaggg cctgacgac cacatcctct gcacccatgt 1080

agacaacaca cttcatgcca aacttagcgc aaacagtcgc agtggcaaca cctgttgac 1140

ctgcaccagt ctctgcgat attcttgtct ttccgagtct tcgagcaagc aga atctgac 1200

ccagagcatt gttgatcttg tgactaccgg tgtggttgag atcctcacgc ttcagccaga 1260

tattggcacc tcccatgc tcagtcagac gggttgcgag gtgaaggcta ctggggcgtc 1320

ccatgtaagg atagtatgag cgatattcct cccaaa atga agggtccttg agggcgctat 1380

cgaagcctcg ctccaactcg gccagaca at ccatcaaaga ctcggggaca tactgtccac 1440

cgaattcgcc gaaacgtgca ggtgttgcg tagaacttcc accaccgttc agagcctcaa 1500

gttggctctc aagaccagga cccgaaggcg tatccttctc cgta atgaca tcagtaggct 1560

gtgacatagg aggggtttcg atcttcaaaa caggctccag cacgttcacc tcacgagtca 1620

acgtcccga ggtatccctt tctagtttgc ggccagtaac actagaca ag tactcctccg 1680

ctttttgagc cgctgacct gcaggggctt ctccaaga ac ggtgataatc tggctaccga 1740

tgacgacacc ttcagaaatc tcctgaacag aaaggaagtg ctgcggggtg ctgacaccga 1800
 aaccaagcgc tggtggcacg ttcccggacc atttgtggac acgagcgagc agttcgggga 1860
 tgttcgagct aaggggtccg gtagcaccgg tcacacccat tcttgagacg acgtagatga 1920
 aggaatcggc aatcttgcaa aggagtttca tgcgagactc ggaggtagcg ggagcgatta 1980
 gtgggacata agaaagacta ccacaatatt agtgttattg aatgtgcaaa gcgtcgaagt 2040
 gagtaggcat accctgtact ggtgcaaaga tctctgaagc gaacggcctc ctctggggga 2100
 agatcgacca tgatgaaacc attgacgcca acctccttgc agtcccggag catacgttct 2160
 tcgccatagc tgagcatggg gttatagtat cccatcagca taataggagc cttgaggcct 2220
 cgattcctcg cggaggactc atctccagta ctgtcgagac cgtgacacca ttggcaagag 2280
 ccttagtggt agcttttttg atggtcggtc catcagcaat aggatcggtg aatggaacac 2340
 ccagttcaat aatatctatc caatcatgtc aacatcgta gttccttgtc tgtagaaagc 2400
 gacacccgac aactgagtct caaagagtca attgaagttt tgagaagaag tac 2453

<210> 2489
 <211> 842
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2489

gatctctttt tctactcttg cgctatgttg tcggagaggc ttcagttgtc tctctcgag 60
 ttgtattttt agatttaaga cttcctcctg gatgctggga atcgaatgtg aactgagttt 120
 aggaggccaa aaatattttg tctcggccaa cgtttaggtc tttgtagttg ccacaacaa 180
 acgaaggac cctgtccctt tctcgtata tccagaattg ccaattatat ttgctccata 240
 ccaatatgag atacaagtac acggagaggc tgaaacgcaa tcgagcggca caatgagacg 300
 gttgtcaaaa tacctacatt caccgactgt ggctagcttc acagaacaga cagaaacaat 360
 aagccaggta agaagcctca cctcaaacca aggagaaaat ggcacattgc aagatggaac 420
 catctgcata accaaaatct aacatacggg ttcggtgata gataagagac ctcttgcggt 480
 tcgcatcaa cgccagccga tacctaagcc atgaaatagt gtagggaaaa aaaaagtaaa 540
 atatgtaaaa tcagcagtac aatgatgac gagaaggaga atatgatttc gactgcaaaa 600
 tgttcatagc tccaagcctt gcttctattt cttcttagat ggcaactcaag atctgcattc 660

gtaatatggt tgggtgcttgc tcatgtactg tgcgtcgaac ccggcttggt cggctgattg 720
 agtgtagccg ctggggcatt tggcgaggca gataatatgg actccggtag ttcaactggg 780
 gtgcattctt ctgcctcatc gtgaactttc ttgagcggtt cgattattgc ttacagtagc 840
 cg 842

<210> 2490
 <211> 4413
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2490

gctacatatg ctcccgccat tgatcgattc tttaagacta gatggttctc agaaaaggcg 60
 ttgagctacc ttctagcgaa cgcccagcta atggccgaat attccgcatt aatcgaagca 120
 tttaccggca atctgagtga tctaacgtc cttgcgcggt tggagagctt cgaggcatcg 180
 gttgtctgga gcacaatgac attatgtcgc catgtgatga atgtatcaag tggaagccaa 240
 ccagattatg atctcttagc cacctccaaa cgactggacg ttatagaagc catgatcacc 300
 ggtgaccacc tggactctaa tccgcttgcg caatttccaa ccaggcaacc cgccgccaat 360
 ccgccctcat taccgatca actcatgcag cgccagctag acttctggag tgcaatcggg 420
 cactttttga ctctacatga caacgaggcc agcgccgcga aagaaattga tgacacgctc 480
 ggccgttgcc gcacgctcct ggatacgtac gaaaatcgag acgtcatcta ttcaatcgca 540
 atcgcgcgcc atctaggcca acggtgggccc gacttcccgc acagcttccc gcagcctatt 600
 accacgaacg agaaagacgc cggggccaag ctttatgtcg ctcagaaatt ccttgaacag 660
 gaagctgggg gcaagggcac gacgcaggtc ataaagcgcc tgtgcggcat ggtcgtccgc 720
 tcctggatatg tttcgcggga atgaaggcat ctttgccgta tgttctctcc gttgtgacga 780
 atcttcttac ttgtaatatg agaaaattgg tgtgctggca ggtttctgtg ttacgaccgt 840
 ttactagacc atgttcattt gactgtctgg cattttttgt ggtatgcttt gccgtggagt 900
 tcgctcatat atcccgctc gacgttctcc cgcgtttatt tggtcgattt atcagggaga 960
 tgtcctattc acggacaagg agtttttttt tttttttttt ccccatcatt tctgcagctg 1020
 ggcaaggcag cacaatggcg tttggctggt atttagatag cttcattttt cttccacata 1080
 ttttaaccga ctcatTTTTT gatgtgccgg gaatgtgagt cggttcatct agccaattct 1140

atatacatcg aaaccgcttg atacataat agttctttag tggatctcgc ttaaccaa 1200
cacgttaatc tccaactaca aatcagcctg ctcggggaca ggggtcttca acttgcccgt 1260
ctccaaggcc attcgacat tctcaatagc ccattcctcc atcgagttt gcgtctgcat 1320
tcgagttaac ttctgaccaa tgcataatgca tattggcagg aatgagagga acatacctca 1380
acagtccaag taccatgtg cggcacaagc aaaacattcg gattctccac aagaccaggg 1440
tgaatttttag gttcgtctc gaagacatcc aagccggccg agtagacctt cccattgtcg 1500
agggccttga caagggcgtc ttcgtccata acggcaccac gagccgtgtt aacgatcacg 1560
acaccgtcct tcatctgggt gaattgctcg gtgctgatga tgtggcgggt attttctac 1620
gcacacccat cagtttacca gtccagagtc aacatgacga gagggaagga ataaggagc 1680
cacattcaac ggcaaattca aactaatcac gtcggattgt ttcaagagct cctcaaacga 1740
aacgtatttc gcgccccctg cgagttcagc actcagttcg cggcgggttat gatagattac 1800
tttcatgccg aacgactctg ccttgcgctt caggttgctg cctattccac ccatgcctag 1860
gatgccgagg actttattct cagggctcgt gccaaaggcg gcggtgttaa ggccacgcca 1920
gtgacctgg cgagggcggt gcatgcctgc gttgaaattc cggagtgcgc cgatgatcaa 1980
gaacatgttt acgtctgcgg ttgcgtcgtc gaccgctgta gggacgttgg agactcgtaa 2040
cggaggattg cgcgctgtgc aggttgtgt ggagatttgg tcatagccg gcctgcatt 2100
cctatatcag tatctgcccc caaagaagga agcgggaaga aattaccgca atgcgctaga 2160
tataaccagc agaaggaag agcgttgacg agttcctcat cgaagagacc ggtgatggag 2220
acggagtcga aggtgcggta cgcgacaacg acgcgctcca gagcgccaga tttgcattcg 2280
gcaataaagt cggcgcggtt cgtggccttg ggagtgacta ggtctgcgag ggaggagagc 2340
gagttccagg ttgagtgggc gctgagaggg ttagttgctg ggccggggct gatagagggg 2400
cgcgttggag tatccatact gcacaatgct gccgaggagt agaacaatta gcttagaaga 2460
catctttag agagtcttg gtatacctat aatgatatta ggacagaaag tggttcaata 2520
gggctgcgtg aggcagggaa tggggatcta taacgggtacc tgaggagggg taatgcgggg 2580
tcacttgcgg cccagcagg ttgacttgag gcggctgggg atatataaag cctaaagaga 2640
ttctccacga ttgaaggcct caaaggaagg actgtctaga gaagaaagga aatgcgatgg 2700
aagaagaaa agagagagag gaaagtgtga gttggagaag aatccccac gttgtgcccc 2760

acctttatca actcaggctc cgtctcgcgt tatctctttc cgaaggaata actgtggagt 2820
 tttagagacg acaggcgaaa acagccagga aatttgtagt cccgatgtaa acattaatct 2880
 atcgggcata gtgactattg aagcgcagtg gccaaaccgt tccctcagcc atgggggtgc 2940
 acctcgggct ttctccgagc ctcttctcta gcatattcac agcgctaccg agctgcgcta 3000
 gacagtgatc tatggccgta ctcggtggtg ttctctttgt cctatctgtg gaattgcgca 3060
 gtgttgtagg ggcttgcccc ggttggtctac cttgggctct gccatgggtg tttccattgt 3120
 agaagcagta ggctacacct caggagcgtt ctgggctgat gcaagagcct tctcggagga 3180
 ctatccgga aaaatgacgg atatgcaaga gaaaagaaga tatagagtgg tgcctacaga 3240
 gcgtgaatca gtttacgaag tttggagcag aatatggccg ctgtaaaccg taaagagatc 3300
 agcgagatgt aggtgctgct gaaagatttg cagagaagag gcatatgcgt ccatgaggaa 3360
 ggtcacacca agcttggtatg ctcaagaaaa ccctgctcaa ggctgttggg cgataaatat 3420
 cacgtctgct gaggcatagt actacgaact gcagcaacc cctgtgtccac tgctgtagga 3480
 atgacaggaa tctcaagtat cataagtagc gccagtaagc ggcaaactat attgtttcag 3540
 agagggcctg tattcaggct ggaacgggtt atttccagtt cttactggaa tacagagctc 3600
 agccctcaac aagcaccctc gtccagtcaa acttctctca ccggctcttg aaccgcgcaa 3660
 ctgcgccgtc tctctctcgt gtccagcgtc cctgtttctt aatcacctcg gggccaacat 3720
 ctaacatgcc tccaatgacc tcgcgcgcaa agagatcgcc tttcggccac cgattggcat 3780
 cttcaacaat atggcccaat ccgccgtcaa gctggaacca aacgtggaag tagggcattt 3840
 ccttggaag ggagcggcgg aaggcgtttc ggccgagacc ctgcttggaac ttggtgagcg 3900
 tatcgatgag cttgcggtgt tgcgtccact cctcatcaga agagagtatg gcctctttga 3960
 aaaatgccgg tgaagtttct cctaggctgt aggggagggg gacggcctcc atagatgcgt 4020
 ggcgcttccg gtgggggtgcc gcagcgttt cgtagaagat gacatcgcg ccttgggtcat 4080
 gatacatgag agtgaggctc ttcataagtg tgcgaatctc ctccattcg tcgtcgtcgc 4140
 attctaggag gttgggtgca tgctgtattg ggacaatggt ggcgctgccg gggctgattt 4200
 cgggctcggg tgggagtgct aggtagactc gtgtcgcaag agacacgact ggggcgactg 4260
 ggggggtggt cgtgtcttcg tgatggcata gtgggcagtt gtccaggatc ttgttcatct 4320
 tttgtagctc gtttaattgt gtattcctga ggctgatctc ggagcgatga acccggcgag 4380

ccagtatgga agcattgtcg tccatgtact cta

4413

<210> 2491
<211> 1340
<212> DNA
<213> *Aspergillus nidulans*

<400> 2491

gcagcggcga atcgtactca ctcaccctcc ccatgaagct atagagcacg cttgacctcc 60
tccatctcct catcctaggc catattctgt ctctcaaaat tgccggaggc ccctaccact 120
ttccgtcctt cccgaggtct aactatccta gatccccacg agtcatacat cgccgactat 180
cgggaccgcc cgaccgcgt cgccgaccac ggcacagtg cgaatatgca cctgctcgcc 240
acacggggccc cgaaattgag tacgggtttg cgggctgttg cagtcttgca cgctgggcta 300
aagtatgtgg gctttcatag ctgcacgtct gcggcgctt tggctctgaa tgtgctggtg 360
gagcggctctg gaggggtgga ggtggaaatg cgaatgcgat cagtttgag gtctgaggaa 420
ccctaggttg atcgtctcga tcaggatggg gacatcttgt tatcacactg tccatggggt 480
gtggaccatc tggatatggg agaagacgag cgcgtctgct ccagcctatg gctgcatctc 540
agatgatttg tatatacgat gcgattgcgg aatctccctt ccataactgc gtttcaatct 600
tcagatccac cagacaagtc ccgatagact gatggcggtg cctgcgcaga tggattatct 660
ctatatatgc atctattctt ccaacggcta tccggaaccg ataatctcag tcgcctgcgc 720
tcgattaact gaagcaaaga tcgttatcag gcgcaatttg gattataggg tctcaattga 780
aactaccca gtagtcttgc tatttttcaa gtattacgca agtgctgggt actggttggtg 840
gctggatata ataggaaact ctaggcagaa cactagccat acagtatatt agggcaccaa 900
agacacagct cagtcaacct tttcttgcat agtagcataa cagcaatagc aaaattatct 960
cgacaaacac ctcccattac catatccaat caaacctccc taactccaac ctcgatccgg 1020
actcccttct cagtttgctc atctacgctg cccctaattg cagccctaatt tgcgtccaca 1080
ctctcgccct cgaggaaccc ctcacatctc gccatctcct caaagcccat ccccttcctt 1140
ccattatcac taaatccct ctccaggatt ctccaggcc agaacaatgt caacacgtaa 1200
taaagcaaac aaccattcc gaagctcaac aagaacccca gcttatacat attcttactc 1260
ccctgcgcaa cagctcctcc gtctcctaag ctccctgcaa taccatgcac cgtaaagcc 1320

acgccccag cccatgccgc

1340

<210> 2492
<211> 769
<212> DNA
<213> Aspergillus nidulans

<400> 2492

tggctaaaga tcttgggtgc caagggggcc gcccgggacc ggggattcat cccggttgct 60
aaaaacggtt agggccgggc tcacttaata atgtgggcaa gccaccgaat tcccaacgcc 120
tctgcggcag cgaactctca caacgggggtt ttccaaccag gcacccatct acggccggcg 180
ataccgacat ttttattctc cgcgaaagtc gacacgtcct tttttctggc caccgcgaac 240
tatgtcgcgc tttttctacg gcaacgacag cgacagcgac agcagcggct ccgatgagga 300
ggagctctac agcgatgagg aggtcgagca gtccgaggag gaatccagcg aggaggatgc 360
ctcttcggag gaggagtctt ccgaggatga ggacgtgga aaggccgggtg ccagtcgttt 420
catgaaggat gtgagcgaca gtgaggagag cgaggaggaa gatgtggtca aggtcgtgaa 480
gagtgcgaag aataagaggt tggaggaact cgagagcacg atcaaactga ttgataatgc 540
tcagaagatc aacgactggg cagttatttc gtcaggtgcg tgaatatcct gagctcgggt 600
tttacatggt ttgcgctttt cgagccatgc gaaggaatga taaagtgaac tctggtactg 660
atacggtggt ttagagtctg ataagatgaa ccgtcaggta gtcaagggtcc tccagtctgg 720
ccccgttccc aaaatctatg tcaagaccgt tgcggacctc gaggatttc 769

<210> 2493
<211> 961
<212> DNA
<213> Aspergillus nidulans

<400> 2493

ctgctacctc tccgctggat tgagtcccaa tgccaatgcc acagacttca agcttttctca 60
gtggaataag ctaggtacaa tgcagggtt ttttctagcc ttcgcatagc ctccgggaat 120
cgaccgtcgc tttgccctgc ggcatgttag ccctagtttg ggggaccgct tactgggccg 180
tttctagatg agtttcaggg cagtagatat taaatcataa ggacgagttg gaaatgagag 240
tgctaagggt aggcgatagg agttgaagaa tgaggggagg gtgtatggtg agatggagct 300

tctctaagcg ttcagtgagg ttacctatta cgtgtcattg ggcatagagg aatggatgga 360
gtccctggaa ccctaataagg tttggtgctg gggatatgta tcttactctc taactcgcgg 420
tgaggcggac gggccaaact cgcccaagat atagcataga agaatatgat atctatacct 480
ctgaagtact ttagggagac aggaatggca gcgggaaata taactcacct cgtagcaaatt 540
aagaagtagc cggctcgtat agccatagat gaactcttcg agtcatttgt accggtagac 600
ttttcctcgt acggtaactc atcggctaatt tgcggttcca ttcttttagtc aaagaacagg 660
ctagactctg ctaaatctac ttggatctta ctcttgtggg gcagatgaaa cacaagacca 720
gctgtgttgc tgcttggcac ggagacactc ctatatcgag ttggatatag gactaaatat 780
atgaactcca tatagtcca agatacccggt ctattcattt gtctgccgcc gtgttagctg 840
tattctggtg ataaagaaat atcgtgtgtt gaacagtgtt cgagccggat ttccgtcaat 900
ttattatata gaccacgtat ctattccaca gcttgtacgc tgttttgtgt atactacgag 960
a 961

<210> 2494
<211> 1471
<212> DNA
<213> Aspergillus nidulans
<400> 2494

acagagccct tcaaagccgt agcgggtccgc gaatctggta acatcaatct gtcaatatcc 60
agtcccatag ccatgtagtc ttcacccacac tacctgtcgc ccaaaggtaa atgcgcgaga 120
agcattgctg gaagegtaca taccatgctc tccaggaaac acgtcgtccc gcttttcaac 180
atctctgcaa tactcaaccg cgccgcgcga tatccatcgt cctttgtaaa gttcccctgc 240
agaaccagaa ttcgctcaca gagccacgag acaagctcga ggtcatccgc cgtcccgcga 300
agcagtgtct gcgccgtgtg catgtgcgtg gataccagcc cagggatcac gatccgaccg 360
gtgaggatcat atttctcttc atcgggggtat tgcgcaagca gcgccgctgt cttgccgagc 420
gaggaaatgc gattcgaacc gcgggggacg taaatggcac cgtcggtaat gattcgcggg 480
gttgagtcaa gggtcaggat tgttgctgta gtgaagagca ttttatctgc ataccgctct 540
gcctcttatt ggagctgttt tatttatcgc gtgggtgtgg tttctttgcg atgttctgca 600
gattgatgtt atatactttg cgagctgggt gaatcgggat gtcggcgacc tccgagactg 660

tagataagaa tggagagcat ttggagtcta gttggagtag ggagattggc cgggccagct 720
 ggagctctcc gaaactgaat ctgtcccact taatgtctga gagctggatt tgttgatcct 780
 cctccttggg atgggctggg tttagcta atggcagattg gcgctcagtt gtctagggct 840
 agggttaaag ctgttggagc tagctcagcg cgtcgcattct gacagagctc aagcgacgct 900
 atctatcaca tagaataagc gagacagcta tagtatttga cgtcgtcttc atcgtagtgc 960
 atgactgggt aatgtgcgtc ggctgttggg ggccatcctc aactatccat tgcctcagc 1020
 ctccccttgg caggtatcat agaggcggtg gccactcaa ggctgttacg aatgaagtat 1080
 aaacacatgg actacgaaat tgggaatcgcg ttttacagca atgtgtgctg aagtcaagca 1140
 tgagtgcagc ttatatagtc atggaagcgg gaaaaaacag gacaaggtat catctaggac 1200
 actaagcaaa ccatacagtg ccttcccag gtagatcaat tgaatcccaa attccaagcc 1260
 ttcaaatttc tactccataa tccaattatt aactcgcaag ccaaagtagc atagtaagta 1320
 ggtgcgtagg taagccaagc aggtcatgag aaagacaaaa cacacaccac ttagtagata 1380
 tacctgaaat ataagttctc ctgatcagtg cggtcctcga acgcatgcgc tagattctgc 1440
 tcatttggat caaggcctgc ctcacggagg a 1471

<210> 2495
 <211> 1432
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2495
 ttcccacttt tcttgactat aaatatcagc ccagtggaga ctcgagtggc tgaaacgaca 60
 taagcgagtt ctaattggca aactaagctc cactgccgtt atgatagtca aaattcgccg 120
 gcatttcagc acgcatggca aaagccacaa acttgcttcc atacaagtga caaaatcggc 180
 tgctgattcc ctaccccccg tccagatgga cgcgcagatg tctcgagtta gctaccaatg 240
 gattacagag acctattcat ctggctcttg ctgatatttt gcgcccaagc agcgtttctc 300
 cgacgcctgc catgcagcct ggaagaggat ggatcgactg atccgctatt cgagcctctt 360
 tcctgagcgc gctcgtcgga cagcagggat gatggcgctg cctgtgccat caagcttttg 420
 ggcgacttta togatgaaag atgcgaagaa ttggacgggg catcagccgt gctcacactc 480
 gacgcccagc tattgggccc tttgggcata agtggaaagc cgtgggctcc agaggggaga 540

tgcctacac tgcgcgcaaa ggataatcca aggtacgtag cggccttgaaa ggtcaacaat 600
 gggtcagatg accgacattt cgagcagata tgaccgacgg acgtatgcga tatacgaagc 660
 ctcgtttccg ttagaacgtg agctccgctt caggagtctg gatacaacga tccagctaag 720
 cttgaacaat acgaatatag cctgtatgag ggctcatatc acgccatata tgggctcaat 780
 accttcccgat atacttatgg gcggtccatt gacaatcatg ttactctcag gcatcgtcac 840
 aggcgcgctg agaagctacc agagacgacg ccagagtacc tttaggtacg agctcggaga 900
 cggcatgcaa gacccggcag agtcaaccat gcctggactt ggcccctgca tccactacct 960
 ccagttcatt ttcttaacgg ggtgtctgac cttgtcctat ccgggcttct tccgcgcggg 1020
 agtgagcagc ctgagctggg cgtccctgat cttcaggaac tggcccgta cccaccagtt 1080
 cacctacccg ggcgtcgaag acgggattta ctcggtgaat gcgacatacg gcctggagga 1140
 gatggcccaa taccttggca gtactgcgac gagcgatctc tggaccaact cgatcgtaaa 1200
 tcttgccctg ctgatggagg gcgctgctgt gaccattttg tcgatcgggc tctatcgctg 1260
 gctacggcag ctctacgaat ctgagcgcaa cccgatcaa gcagtcgacc tgcagatcga 1320
 gatgcagacc ctctccacc gcattggatg gagtttcgcg cgctcgtgc tcgactatct 1380
 cctccacccg ctcatcgccc tgtctctctt ccagacgaac aacgcgcgat gg 1432

<210> 2496
 <211> 1224
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2496

ctgcagcttt ggatacattg agagacgatg cgagacttat gatggatgcg cttatcgaga 60
 aggggggtcga tgtgaggtat gatgctgacc cggggccttgc gcattacttc tggagttatc 120
 cagcgaaggc tctggaaggg gtgtctgggg tattccacgc gaatatgtat cgggcgctgc 180
 agtggataca tgagtaggaa ctgaagttga ggattcctgc gtgtgcggga ttgatgcaag 240
 atagggttagg ggtgaattag catctgaacc tgcaatgctt cttcgtctcc agtttgtatg 300
 gacgcaagta gtgtgcctga tgaatatgga tgctttgttc tcgcaaaaaa taaactctga 360
 cgcttgctcg ttatactcct ctttcttgcg gccgtgcgct ttgcctcgtc cgctgagttc 420
 tttggctgct gcgcgctgc cggacgcgta tgcttcttgg gactggtagc atcactatct 480

tagcattttg aagaggtttg tgggtgttgg tgtaaggta aggtggtggg ttgcggtgg 540
 acgtacgcgc tggaaacagg agttgcgctt cgaggcttct tgtcttgca ggtcggaag 600
 acgatcgttc ggattcggca tcgttgcttt gggagtgggt gaaggcttcc acgaggggtg 660
 tcgtaagaat gtgcagaagt ggggtggtgc atgtgttgtt tacttaccct gaggaccat 720
 gtaagaaagt tcgtgctcgt gcatgtgtat ataatagcat tactgtaagt atgccaaaag 780
 cacagtatat attctcccaa ctagtacggg gccgaccag atctccagtc tatctaataa 840
 ttagcactta attactgcat tccagagctg aatccctat gcatggaagc ctgatgtaca 900
 tgccgaacaa caggtagaag acagcattac ttggtcagta tagtctagtt gctatagtaa 960
 acacaatgtg tataaataag catgctcgca tccattgagc accttttccc atgaattgtc 1020
 ttaagcacag gcgtgacaag ccctgtatat caatacattt cagatagtat gagcgaaaag 1080
 gtattagcac acctttgttc tgcccagtat aactacgggt gagagcatac tgcgcaatca 1140
 gacatgtaca tacaaaacaa cgagacccat aacataagcc caagaacagc gtccatgagc 1200
 aggggtattgc cgtactaatg gtga 1224

<210> 2497
 <211> 891
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2497

gcatgtcctg tactactttc ttgagtccga caccgcacgg ggtgatggcc ggtctggact 60
 gggcggttggc ggacatctcg atggcgccgg cgaggaaggc cgaggggtgg ttccagagat 120
 agtgggtcaac gtgcacgccg ccggaagagt ggccgcccag gactatgtgc gatttgtttc 180
 caccaaaggc tgcaggtcgt gttagaagtt aaaccttagc aaacgtggag gtaaacaaagt 240
 atcaggagaa gactagatct cgtaccttca atgttgctgt agaccattg cagcgccagc 300
 tcgacgtcca tgatgcaaaa gttctggctc tgcccctcca gttcggggcg attcggcgag 360
 gcgtacaaac ttctcgcgta gttgaagttg acatagatga catccttgcg cgcaagttg 420
 tagccctgcc actgggcatt actgctgctt ccagtaacca tcgcaccgcc atagatgtag 480
 aaaaacacgg gcagttcctg gttaccgctt gcagcatgcg ggggtccagat gttcaggctc 540
 aggcagtcct cgctctgcgc cgtaatggcc gtgccagaca tcgctgcgc gcacgacggg 600

ccgtacgcgg tcgcgtcgaa gcttccgccg gggaacgagg tcagcgggac aggcgccttc 660
cagcggttct ggccggcagt cgactcagca aagggtatgc ccaggtagac gttgggtgtcg 720
ttctgggtga agcccttgac cttgccctgg ttcagctgga tggttggcgt gcaggcgcac 780
gcataaacag cgcccagcag agccgccgtc acgctgaaaa taacgcggat gaagcccatg 840
gtaactggca cagactgacg atctgcggga aggtaacaag aaacagggca g 891

<210> 2498
<211> 579
<212> DNA
<213> *Aspergillus nidulans*

<400> 2498

ttttctgcca gcatgctaata taagaaatta aatagtactg cgtgcatcaa agtcttctcg 60
aaccattgta tacaaagtat gttcatcaca aagggtaccg ccacgagggt gaggtagggtg 120
gaggtgcgta ctttgacccc ctcaaatact atgcggcgga gctgcaatca gagcagagcg 180
cagcacacgt ggctctctat gacctgctcg tgaggaggga ttatgggagt gccgataccg 240
aagaccctcg agcttgaaaa agtccaatga ggacacaaga ggctctgttg actgccattc 300
cccaggacca tcatcgtaag tctaccgagc gaatagggcc ggagtgtcct tcgaatagga 360
aaaggctctt tgaggcgctc ctggatgaat ctgctcagga ttacctttgt tcgtctattg 420
gcaaacgtgc tccggcgagg aaattggaag actacaaaca tttaggaaga gcgagagggc 480
acggcggcaa aaaccagtcg ccgccaactt ctctgcaggc caaacctgcc ccaggcgacg 540
ctaactctgca gccattgaaa aactgcaggt tagcagtag 579

<210> 2499
<211> 1186
<212> DNA
<213> *Aspergillus nidulans*

<400> 2499

gtgtcgatgt acgggtaggc catcttcgga gggaaaacgc gtaataagat gctgtacttt 60
agtagctcag taatagtcca aaagtctcca gcgtgcaaac atccccaaaca ccgcgaaaga 120
atgcgttatg ctctatagcc tgaaggaaga cgcattgaag atggacgtgt tttgggcggg 180
gagaatagtt ggccagccgc gctgcgagct tgttgatata taaccgatct tggcttagta 240

taaacggact gccaatgttt atacggacc ggtgattttc cgtgtccttt gtatgaagtc 300
 ataccgaatg gtaatttttag cttgactttt ttagttgccg caaaatagaa ctgtgaatag 360
 cttctgtgcg aagagaaagc ttatgacgcg caaatcatgg cgcctatgtc gcaggaggat 420
 atcgaatggt ttaaattccac ctttcgcccc atcccaaaac ctgaactgcc cgacgactgt 480
 gtcgaatact cttacacta catctcttca aaccccgccc ccgcccttgt cgacgaagcc 540
 acagatactc gggcgcgctt gactgaggtg cagaagtctg cagccgaatt gtcgaaacag 600
 ttactaaagg attatatctg gcaaagagag gcatttcgtc ttgaagccac aaagaaagac 660
 ggtacgcact tgatgcggct ttctcccaag tcatgtctaa tgaaatcatt tttagggaca 720
 acgatcctga gcggggaac gaactttggg gactcagttg aggatgaatg ggtaatcgtg 780
 tatctgttgc gcgaattgac aaagaagcat aaagacattt gggctacggt gacagacaat 840
 gatgggcagt ttctccttgc agaggcggcg ggcgcattgc cctcctggct tgagccagaa 900
 gttgcagaca atagagtagg ttctcagtat gatatttact attctagggt atattctaag 960
 gaaaacaggt atggatacat caaggagacc tcgccataat aaagccgaag aacgaaaagc 1020
 gcacgagagt gacggaaacc atatcactgc tggaggcgag aagcataatc aaagacgaac 1080
 ccaatcgact gatgcactca accatgatac aagaggaggc gttctactgg ttgcgaaatt 1140
 atccgaagca aatcagcgag aacatgcatt cagctctagt aattat 1186

<210> 2500
 <211> 706
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2500

taaccctcac tataaagga tcgctccgc cgcccgttc gtgtaaaacc ggaagtctgt 60
 gcgtcttaag cataccctgt ggaggttcct cgtgtgatgt ggcagctcca gacgtagata 120
 gagcatcgga cgaatgcggg aaagggcaaa gctcaatgac accatcgctt aatatctcca 180
 tccaccgcac aaggccagaa gaccgcggga agagggaag tggaattgtc atcattaggg 240
 ttatgcgact gctaggcgag ctcgctaaag cccttagaga gtgaaggaac ggcagcacgt 300
 tttcaggctc gctgacttct ggtgggtata acgtgggggt taggaaggaa ggaatgacaa 360
 tgcggtggac tatgtcgga ggactggagg cgatgacggt ttgaagcttc ttcaggatgg 420

aaacaagcaa aggcctctttt gttggtatga ggggtatata tgtgatgttg ccaatagacg 480
gatgtgtgag gcgtttggtg aggtcgaatg tgtgacaaaa tgccgggtta gctgtgccat 540
cgtcaacaga agataggctt tgatcacttg gacctgctgt ggagttaact gggtcagcgt 600
gagacaactg agccaaacta tgctcgggta cctacctttt gcgccagcga cgcccgcctc 660
gaatcaccaa gacgctcgta cctcatgcat ctcatgcgct cccttt 706

<210> 2501
<211> 1581
<212> DNA
<213> *Aspergillus nidulans*

<400> 2501

atctgcttta gccattcca ccgactttgc ccaccggga cggtgggggg agcttgtgac 60
gacatcccat cgtggttctc cagaccgact atccattgag aaattagaaa cgcagaccac 120
gtctctgtgg agcgggaagtg cgcttacctg atcgaagtta cagaccagcc tcttgcgact 180
gctgatttgc atattcttga gcctgcgcac gccaaagtcc attagtacag tctatctcaa 240
tgcccgatgat gcaaatacct aggaacccat ttccaccggc gacaacaagc ttttttgacg 300
ccatagtttt gtgtgaaata ttgataaccg gttcacttgt tcagcggcca agttagatcc 360
atagacttaa tggcagtagt tagcgcattc tcatgaagtc ggtatgaggc ggaacccact 420
gcggaagaag ctctgccgga gctcaatcgc accaccactt ccaggctgcc ttatcaggtc 480
cttatcacta ctgtcacgtg ctttactctt gcccgttgaa aaagaacgag ctcgccagc 540
tttgtgcct tcaactttgc gtcattccaaa tttgctttaa aatccacgta cctgagagtc 600
acccttcgag atctcaccat atactcacgc tcattactac tatatacttc agtatgcct 660
ccgcaacagg taccaagcgt gtcagggtga gtaccagcga atacaacaca ggaagccaag 720
actgaccaa actgatcagg gagtctcgat atttagacct ttcggtgcgt catctgcttc 780
tagttgactg actatggtgt aggtattaac aacctcatta cagttttcgg tagcgaagcg 840
caacccttcg acccagccac gaaaccaagc aatgtatcct cagatcatac tcaccaatgg 900
cgtgtttacg tccgcggggt caacggcgaa gacatttcct actggattaa aaaagtccag 960
tttaagctac acgaaacata cgtgcagaac gtccgcacag ttgagcatcc gccctacgag 1020
gtgacggaaa ccgatgggg tgaattcgag atccagatta agatctactt cgtcccggaa 1080

tccatggaga agccacagac cctctggcac agtctcaaac tacacccgta cgggcctgat 1140
gcgaggggga agaaggagcg gagagaagtg gtgggtcagcc agaactatga ggaggtcgtg 1200
ttcaatgaac cagtggaaca gttctatgac tatcttactg gaggtccgg aacgcagcag 1260
atgcagaagg ggaagagtgg gaagaatgcc aaacaggcac aacaacagcg cgggtggcagg 1320
acggctgaaa ttccgtttta cgagacgccg gagaaccctt acagtcggac ggccgaaaac 1380
aaggagcttg atcgattagc tgaggcaaat aagaccgtgg agcagatgat taaggatgag 1440
aaggagcggc ttattgctcg ggagaaacga ttggcggagt tgcgcgcgag tgaaggtgtt 1500
cccgcacagc cattgaagaa aaggtaaactg gcatacaggaa agacgcctct ggcgccctgaa 1560
aggaccctta atcaatttct g 1581

<210> 2502
<211> 1636
<212> DNA
<213> *Aspergillus nidulans*

<400> 2502
cgtgcaggat tgtggccgcc cagccgatat cggtaagttt tcaaacgtgt gtgctgaagc 60
tccctttaag cttggttgtg gctctgcaag tgatgaacaa tggatagtat aatttgaggc 120
atatacaacc aaatgtacta ggctggaact ccagctttgt tcgaagcaat atgaacagac 180
aggacattac aagtatgctg acatgcgagt gcgaacaaag aataaactcc atgctagctg 240
gattgacccc cgtttatgga tatccgggtca agaggtgaag acggtcgggtc ggacttcttc 300
gtccgaaggg tgagagggta aaagtgggtct tccgcatcat cttcctcgct tgttctgatg 360
ctgaattagc tcgagcttcc taggtagatg tgcaggactt acggaaggcg ccatgcaaca 420
tagtcttcgg tcgagagacc ctcttgact tcttgcatg atgcgaaatc accgggtgtc 480
atcataccag agcgatcgcg tggatgatcc ggaaccgaca atggtcgcga tatcttctgc 540
tctgtcccgc caataacgtc aaagtaatct tcttggttgt cgaaagacga ggggtatgct 600
gcacgtagtc agtaagcaaa caaagaataa cccgggctgc gagaaatacc tcgtcgaaga 660
gccaaactgcc gagctttgac atattccaag cccatgcgct tccagtccag caggtcgctg 720
agacgttccg tacggttacg ctggttgatg cgttgccgtc ggctcttgag ggtgaagttg 780
tacatgaaat cggtcagctg gttgactgaa tcgtctacgc cttcatccg gcggtccaca 840

atataaatgc cgtagtccga ggagttctca ataagctcct ccatatagca tccgaagccc 900
 gagagattgg ttgtaatgct gggaactccc atgactgtac attccgcggg agtgtaaccc 960
 cagggctcat agtaagacgg gaagactcca aggtgtgtac cacgaacaaa gtcacgtag 1020
 tccaaaggca aactgggtt agatgagttg aggaattctg gatggaaaac gattttgacg 1080
 cgatcagaag attgattgaa gagctggaca cgccggatct ggtaaggat cggatcctcg 1140
 gagtcattga tcatgttatg agtaacgatt ggaggaagag tatgacgttt catggcgaaa 1200
 agcctacgtc gcaggaggac gcggtcttgg ctggtgataa ggtctttctc atccggcata 1260
 ttgtcaccct ccttcaggc tagacaccgc tcgtacatgc gctttccaat gccttgctcg 1320
 atcatatgaa tcgtgtcgcg aagcgacttg acaaccgctt ggcttttag tgactcgaca 1380
 gtgagtgcg aggtctgcgc tggcatgatg atgaatgcta caaccgtggc cttcgatccg 1440
 ctggacttga gacgatgatt gagacgcgcc agcccttcga taaacatgtc aacacccttg 1500
 ttgcgaaatt cgtaccgacc ggatgtaa atcgtaaagag tatcgtcaaa atcaaagtca 1560
 ttgtgtccat agaaatgcc tctgacaaat tcattgatct tctcttttga ctgggagtgc 1620
 aggttttga ctcatg 1636

<210> 2503
 <211> 932
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2503

gggcagcgcg tggttatagg agcggactca ctggctcacg gagccaaatt tgtaggtcgg 60
 aatagtcaaa cccagagcgg gagcctcggc gaggtctctg atccaagaaa agacagatta 120
 gctttcaata acagaaaacg gcgtagtata tatattgatg acctacatga tcttgaggca 180
 cggaagcaag ggggtggtgtg gtcctccgt aatgatgctg gtacatcccc tggggtggtg 240
 ggagcgttgt ctccggcccc gcttgagggt gttgctgggt aggcaggggt tgaccatgag 300
 caccgtaaag tacaacgggt tctccaggac gtccgttttg gccattcctc aaatgtgggt 360
 atgcggcttg aacagggacg aaagcttggg cttgagacga gacgggagta aacacgcatt 420
 gctggctgaa gcgaacgcag ttggtgcaac gtccatctga gctatgctcg aaaccagagc 480
 atccgatctg cgacgccgac tcatcagcta ttattcctg cataacagtt ccggtgtacc 540

gtacctttcg tctccgacag tagcgacacg caatagcagt tctctgtcga ggagcagcct 600
 ggtagacgac acctccccgt gctgggtgcg ctgaaggcgg aggttgctgg ccgtatgggg 660
 gcggcgagg cgggggctgc tgaccgtatg cgacatctgg acgataggcc cccgggggag 720
 gaggaagttg gtaaggcggg tgctgggggt gcatgggatg cacggaagcc atgttggtatt 780
 gaggcgggtg gtattgagac tgaggaggat actgcgactg agggggaggg taatgcgctg 840
 gcggggcg atactgatga gcctccgcgg gcgaggatac gacgctggag ggtaggatga 900
 tggagggtac tggacgatcg aagtcgat ta 932

<210> 2504
 <211> 914
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 2504

ttcttacctg ggtttttcaa aaacttcgcc gtcctttta atgtcgaggt ctttcgtgac 60
 ttagcttcaa gagtgaagaa atctggagcg cattccgtca gcaacgaaaa accagaacca 120
 atgtcctaata aacatactgt cccatctctt cgcctttggt ttggtgtaac aggcctgtca 180
 tatccacaag tcagccccag aatttatgag cggctgcaag cactgcgggc tcaccggact 240
 cttgaacata tcactactgg tagcaggagc aacccagca ggcatgggg cgctcttcgc 300
 cctcacagca gcaattccat cgacagtcaa cggcttagga gcgccaatgc cgttggtatc 360
 catgtccaaa gctgccggcg gagacatgc agtgcctcgc atctctctc aatctgaagg 420
 ccgaggtaat gtaacggtga tgggacagag gttgccccgt attcagcgc 480
 attgtctgaa gaggttttta cgtaagttg atgcagatca attaatacga tacctgcgtc 540
 ataattgatt atttgacgtg gtttgatggc ctccacgcac gttgtgatat gtagatgata 600
 atcattatca ctttacgggt cctttccggg gatccgacag gttacggggc ggcgacctcg 660
 cgggttttcg ctatttatga aaattttccg gtttaaggcg ttccgctct tcttcgtcat 720
 aacttaatgt ttttatttaa aataccctct gaaaagaaag gaaacgac 780
 cgagcttttt ggctctgtc gtttccttct tctgtttttg tcttggaac gaacaatgna 840
 aaccccttct taattttttt ttgcaccctt ggtaacatca attgcccgga tcaaatcggt 900
 ttcacaaatt gatc 914

<210> 2505
 <211> 2927
 <212> DNA
 <213> Aspergillus nidulans

 <223> unsure at all n locations
 <400> 2505

```

agtggtagacag ggaacaaatt taaagctaga atgggggggct tctgcctttc gtttaccctg   60
ggcaaaacct taaagtttcc ttgccgccct tttaaagtgt ttttgaacct cgccaatttg   120
aaaccgatag gatataaacg gcactaaaat tgcttaatcc ctattaccaa aggcgatccc   180
aacattgaat cattccccgg gaagtccaag attcttccca tttttcggtc ctccacccaa   240
cttcgcctgg gtcattgttg agttagccaa aagacgtctc ctacaatcca aagccgagtc   300
aaaaccggct ccgcgccatc ccactttagt tccgcacctt gtcacccgct cgtcaggaat   360
cttcccgtag ggcacagaac cacatgttgt cgaggagaat gcggcgctctg aggtcctggg   420
gcttcccacg ccgcgcgcgt ttgcgcgttc gtatggatgt gaacatcaaa gtcgacagag   480
cgtaatttag gagaaggtg aagttgcgct atagacgatt ttatgagtat acccatgaat   540
ataatgtatg ttataaatgc tgtatggatt agactgtcag cttatatattt caaggcaagg   600
cgcagcctag ccagaagcc tgagagcgcg caatttcagc ttgcaatcta gtatgaactt   660
ctccattcag cagtggcctg cgatccttac caaacctggg tgaattgcat taatgcgcct   720
attattattg gcgatccata catactcgaa actacatatt tcacagcact ggatagcggt   780
atcttgaaca cgtaagacgg gaatgaagac aggcacaaga cgcagtttgg tgactgaggg   840
aatagttggg cttattgctc tatcgaagcg acctctgggt gatgatcagc cttacctatg   900
ttgtttgaac atcggcaggt aggggttccc tcaactatct aaccattccg tcaatcatta   960
tggtatacta taagaaactt aaatatacga gacttctcgc tccgcgaatt gagtatccca 1020
gggttcctaa attgcgattt cacagcttta tagttccatt tgtattccta tttaaaagga 1080
acagaccttc cgtaagtcaa gatgcaaac cggaacatt cctcgcgcct ctggctatcg 1140
gcaagcaagg cagcagcgca atcaccaata ccatttagca agatgtctat atcgaaatct 1200
tagcctactc tatcaactcc ctacgcgcgc aaaaaattgc aagcagtcgc taaagatcac 1260
ttagtctaaa acaaaccaga cattcagcca ttctgttct caagatgggt cactcaggtc 1320
  
```


ttaagggctt cgggctcgat tagtgatata agagaggatg ttattgaggc gtgtaatggg 1380
 tatcgactat gcaccgaggg tgcataataa tgatgcataa taacggactg aaatttgaga 1440
 gaggatgtat aagaagtggc cagtcttttt gtcctgatct gaccacaaaa tacaaactct 1500
 ggtcttggca caatatattc acccatcata gtcacaacac agataaccct ctggaaggca 1560
 agcagtatcc ctctcgaagc acacattaaa taagaaaata ttgttgtcaa gccaatcccc 1620
 agttcgacca ctggcattcg tgccttcccc attcgcacac agccggcaac accagacgcc 1680
 ataggtcaag taaaccacaa cccactgctg ttctgcgacc tgccaaatga cctactagcg 1740
 agaaacatat gaaggcaacc gtaaggcaaa atgctggatt ctgcagccgc tcggtttagac 1800
 gactcgcgag attgttctct agccctacgc ggtcgacat aggcatagta gtaccaggta 1860
 ttaggtatca atagctatct agtgcaagta aaacttgccg gccttttttag actcaaaatt 1920
 gaaaagtctt tatgtagctc actcatctcg ccgtcctagt tgtcatagga gatgagcggg 1980
 aagggctcag tgtagctgac gttgtctaac agacctgcct ccgcagagat ggggttgggc 2040
 aatattatgg agatatggag atcaccgaga tctggccctg ggccctgagg agcccgaaga 2100
 tcagtctcag aaaagtggct gtgctaagct tgttgaggcg gccacgtttt atcacgattg 2160
 tagtcggcgc gggcctttcc gcaggggaag caatcggaaa tgtcgaggaa gatgggaatt 2220
 gctgaggcta cttcgctaga attagcaacc gcattctgtt ataagcaggc aaaattggca 2280
 aagcttgggg caaaagtata ggtttcggat gaactagtcg ggtttgtcct atatctcccg 2340
 gtatgcttga ttctgcgcg ctacatagga caaggatgac ggagatcttt tcctaggggc 2400
 tagatggcca tcctttcagt acaagacccg caaggcttag ggattgatcc ggtcaagggt 2460
 ttgtgcactc agggctgttc gccggctggt ggtatgggca gcaacgtcac taataccctt 2520
 taactcagat ttaaagatca aagcttatgg accggcggtg agtgtctcat gatgttcgag 2580
 agatagcatg aaatatttat tggcagcact atttgtgtat cctagaagca gacgcggtag 2640
 tcgttgata tgtttataac cttgtgctgc caatgacat tcctgggtat catcaacgac 2700
 ctggtgacga gctgcaaaag ttctgcggtg aaagaacgat ctggctttgc catctatacc 2760
 ccantatggg attagcatat tcctcggact attgggttca tgcattaggt tcttgcacga 2820
 cgaaccatca tatggcacc cagggtcata aaccatttgt gaataccga aagctctggg 2880
 aagatacccg agcaaagagc aaattagcac cttgctctag ggaactc 2927

<210> 2506
 <211> 1256
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2506

tatgattatt ataattctac cccgcgcatg acgtcgacag gctacgatcc atacttgata 60
 cggcacgccg atcgatagat gccaggtata tttatagaac aattatccac acagaatctc 120
 gtcaagagac gcgcttgctg cctcaatgag tctgacactt tgcagcacgc tcggcgagac 180
 cccctggccc ggcacttgca tccaccgcag caggtgcttg gtcagattgg gcccgatctc 240
 ggtcacatcc tctgggagac atacgcgtag agagctatct gctgcagtcg caagcgcaat 300
 cagcatcacg gacgccatac taggtatgag tattcagtgt tagcatattc tcgccctgtg 360
 cagagagaaa tgacatacga gagcgagcaa atccacgtgt cgatcataac cgtctgcgga 420
 aacgcattca ggttctgcgc gtggagacaa caggcctcca ggcaggtctt acatccttca 480
 tagaccatcg gcgagatggg gtccgctcgc gtggtgagtg agagcgccag agtgaggtag 540
 ggccggtaga tcacgctttt acaggtcaga tagcgttggc ggaggaaacc cgcctccatg 600
 gatccggcgg gagcgcggct aagatcgaag tggaatgcag acggcagcaa gtccctccat 660
 ttattgagct ggtggtccag ttcggcgacg accggcgagg actggttgat atcgaggagg 720
 acgccgttgt tgcgtgcgta caggagatca tgcacgcggt tgagcagacg gcgcatcgag 780
 atgcaggcga ggaagtagag cgaggattcc tcttctgtgc tggaggaagc gtgtgtgtgg 840
 tattgtcccg gtagggggat agaggattcg atttctgcga tcccagtatg cggaagcgcg 900
 gcgagctcgg cgaggtagtc gcttagcaat tagctggaag acagacctta aggtaaatct 960
 gaggtctctaa aataaagaca cacctttcca ggatatagca agaccagaag atgcccgcga 1020
 ggcattcgag tttctcgcta ggggtgtcgg atgtggaata cgagagcagc aagcggcact 1080
 tggttgcggc cgcgctgatg aacgaccagg cctggattgg ccgttgcaaa aaggcgaaga 1140
 agagcctgaa ttgacgccat tagggtcatg gttgacccgc accgaggaag acacttacgc 1200
 tgtgtagaag agacactgca ccgcctccgt gcaggactcg gcctgggcga gataga 1256

<210> 2507
 <211> 2805
 <212> DNA

<213> Aspergillus nidulans

<400> 2507

tcttctatcg atttcgacca cattctactt gaactgagtt ttgctaagga attagcacct 60
tggctagaca ttatgtacaa tacgggtggt agggatggtt gagtgtgcaa ggggtgctggt 120
gagcaagggg ggtattggta atgacgttat aaaccaggag tctggacagt atacacattc 180
gtcttagata gttaaacagt cgggtgatat ttcttagcta actagataag ggacggacac 240
ggtttgtagg aggcaccatt catcgacatt gtcggttgca gttatgaaag gcttgctgat 300
ttgtttgatc gcgtgggtcac cgcataggat actaagtgtc agcaattagc cttggctaga 360
tcaaacctgt tccatgaaac agaaggtact taccaagctt ccgctatcta cccgtccagt 420
tccttcacaa cctcctcacg ctgggacgag gtgagtgcgc cttcattcag ctgagactgt 480
agatctcgta tatacttctt ctctcctccg gcgcctcga gcacctcacg acctaggcaa 540
tcgctgtgga acgcgtgctg acatgggaaa acgaagaact gccggctaag tactggaagc 600
gagcaagtcc agcacttctc gccaggtcga acaatcgct accgtgtgtc gagggcggtc 660
atctccgacc ggatctggcg cgcggtttgg gccagagctgt ccatctcctg tcggagcgca 720
tcaatgtgcc gggagtagtc ctctagggca ctgcagatct catctttgaa gtcgtcaatg 780
acaacgaagt ccgggaaaaa tgggatgaga tcctcaatcc gaagcagctc gcatctacga 840
agaaactcga tagcgtcttt gatgcctgtg tctgattgcc ggattttttt ctccgcaacc 900
aagagccaaa gcttcttccg tagcttattg tttccttctg gtcggtcagc aatgatggcc 960
gccagctcaa tgcatcgtg ctgtaaagcc agctcaacag cctggagata ctgtcccata 1020
gcgctgtaaa tatggataca tgactggaac cgctggtgtt gtatgcaaag gcgaagcgca 1080
aagtcggcat catatggagg cgggatgat ggctgtgact gaaggtatgt aagaagtcca 1140
gcttcagagg acgagcggct tgaagcatga attgatatga gcgtgttatg cactgcagcc 1200
gtgggtctag ggtggttgac gatgataaag ttaagataac gcaccgcttg gttttgactc 1260
agcggcaccg tcaactgtgt gttatagttg agcaacgcgg tatgagcttc tcgggctcaa 1320
ggttggtctg tcgcatcaag atgttgacta gtccggtcgc tgcgtgagtc atcaagacac 1380
tgctgtgttt gtagaacact tcagggtcac tctgcctctg cagcacattg agcgcttcgg 1440
accagttttc ccgttggatc cagtacgaca gaacgtagtt gtgatcgttt accacagtgg 1500

caaagaataa caattccttc tcacgtccat gactgctgat gatgtcgtat gctgtcttct 1560
 gatccaggtc agacttgat ttggtcacia actcttgaaa ctcatcttga acggcctgca 1620
 gttcgtgctc gatctcttca gtgcttgacc cctcggcaag ttccgctttc gttgtgatat 1680
 tgtcgtcaag actattcagc ttggtcataa agacttctat aagccaactt gccaccatgg 1740
 tcctttgcat cgaggaggac tttttataaa ccgagagctg cgaaagcagg tactttcgtg 1800
 gggcgtcgtg ctggccacgc ttgatgagt ttagacacac atcttcaa atgtttactgc 1860
 tcttgcccca aaccccgggc gcttctatat agcgacctt gctcgcgagg aaatcgccgg 1920
 aagcagtaga aacagcatct ttctgggagc ttgtacgggc atatcgaaga gcctcctcaa 1980
 acttttgctt gcgcaagaag attttccaca cgtctcggtc ctcatcctgg acacatatct 2040
 caaaaatgtc ctgactgggtg aaaagccagt aagtgccttt cattgcgtct gtcacaagac 2100
 ccagagcagc ttggcctggc tccaggacct cttgatcaaa tacaatttca tcgttcatgc 2160
 gattgacagc aagcactcgc ctttctacca ggactagtat gtgccactct gataacgtca 2220
 tggcgggttag tgggttctga atcagcttct tgccctctct tgcggattcg gttgcgggga 2280
 aaatagaccg cggaagcata cttgagctct cgaagggtt gtgcaacatg tctaatgaat 2340
 atggaagttg tccatggtat acaccttcag aactaagcca tgcaaactct ttgtcacgat 2400
 gaccatttag atggtgagca ttcgagctag atggcgaaac aaccaaattt gacggcgccg 2460
 aactagacgg ttgtccaatc tagtggataa cgggagtttc tcgtaacagc aggtcggcgt 2520
 atatagtacc cgcaccttct ttcgggatga ccggttcgcc ccaagaaacc gatagtttcc 2580
 atgcgtagcc accaatatcc gtctttgttg gcttttgggg caccgtctcc gcccatatac 2640
 cagtcatgta gacccatccg acgttatgta tatcagtggc atatctctcc tccgacggta 2700
 aatcagtaga tggctcaata tacgtttcca gactgccac accgtgcaa tattcttggg 2760
 taaatgcaaa cggagggagg gactccatgg cactccgata ggagt 2805

<210> 2508
 <211> 2173
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2508

atatgaaaga gtctgcgcaa ttcagcgaac cgtgtgaaac ccagtcgcc ctgcgtcctgg 60

ttgaatctat gagtggcggc tataatatat ttagtgaaac agttctgcaa taaatatttg 120
 tagactcact atggctgacg tgaatgggtg gatcggtcgg gttccagaga accagggcga 180
 actgcacaca tgcgtaccaa ttctccggca cctcgtcttc ccacgcatgc tctaggtaga 240
 aggaagcgtg ttcgacgtgg ttcccgtacg gaaagaaaag tatccgcctg caatgagtaa 300
 gcaagccact cgagcggcaa tgcctacata aactcaccat ggtgaacctc cgcactgaaa 360
 gatcgggtcca tgctccttct tgcttagctt cggccagttg ctgatagacc aggtatgcca 420
 agtttcatcc gcagtttcaa gatccgggtc tttcgggaga acgagagcca tcatagccgg 480
 gactgcaaaa caatcatatt ttagaacaat ccttgtaaata tatttgagcg catttatagg 540
 tcgccagcat atgactgttg cggggacttg tcggagcagc cataaattct ggcaggatag 600
 atgtgcattc gccgcgacga gaaaggtgtg gtgggaaggc ccttacagtc atccgcggag 660
 ggttctgctt ttagctcttc agagccggac tgcgagacaa cgacatcctc ggccctgtca 720
 ttctgggtact gttcgtattc atcaaccagc attttactat ctgcgagcta gacgtattta 780
 ggcattcctg cagcaaaggc tctccaaca cacagattta aacttcggta ttgccgcagc 840
 aagaaaatag tcgaggactc acgttgacca tgagggcaga aaagtgcgct cgagcactcg 900
 aactacagga agttcgctgc tcgagaatgg ggtatagagg acaagatcta agacaaaaga 960
 aagattgttc tatcccaccg gtcggggcaa tgaaaagatc ggagggagag agcggagatg 1020
 caaagaatat ctggttctga cgttccaggt caagggagtt gcctactcag accaatgata 1080
 gcgcataac ggctgcggg acaaagagat tattaagagc gccagcccg caaaggaaac 1140
 tgtaagaaca gacctctac ttgatattgc tctatccttt attgctcttc cttttcccag 1200
 cctaacaaag tacctgagtg ggctcccct ttctgcttt gatctcttcg ttagaacgag 1260
 aatccagggc acgcacagt atatacata attttgccc atggtccacc cgcaattatg 1320
 aacaccaacc gtgggcataa ctatacaatg ccaatttctg aaccatacca tcaattaggg 1380
 ctacttaggg tccttatctg gatttcatag taccagtatc gcttcaacat ttgctgaggc 1440
 cagtttactg tccttaaaac ataatactga agctctcgag ataccaccat ccagtagtgg 1500
 tgggatatgc agagagattg gctgatacag aacggtcgga cggtcacatg tcagaccggg 1560
 aggtctcacc gccagtgaa ctgccatgac tcctcttgcg ttcagccatc atgcgagcag 1620
 caaacaactc ctcagcaacc accagggaga tgtgcgagac tcatcatacg agcctagttt 1680

ctcatccggc ttcccagac tcttgatc cgggaacacc ccccttcaat ccatgaagtg 1740
cccttgatac aatccggagc agatgctgag gagttggcca aaccgatgac ggcgcaacct 1800
ggggactcaa cgaggtcatc tctcagtagc agttctgcat tcggagagct ttgtgcataa 1860
tctccgcgcg tggagacctg tatcagctct ggacgagtag gtttcttgct ctatcgtagt 1920
acattgtttg taatggctgt agatacgttg aacgccagat tcgaccgacg agttttacgac 1980
aactgacttt ctttggggcg acgttgaccg agtcaagact tttaagctcg gccaaactatg 2040
tgcgacaga gcttccaacg aggtcagtcg ttcattccgc gtcttagctt ctgctaacag 2100
ttatatttgc agactagcac accgtctccg ggacatacaa aagctgcctt acgctgtggg 2160
tgctaaccct cac 2173

<210> 2509
<211> 971
<212> DNA
<213> *Aspergillus nidulans*
<400> 2509

tctcccttgg cggtagtaga ttttccagag cgtccacaat ccaaggtagc cgtctggcga 60
ttattcccga agtgagacgc tgggtgcccg accgagttgg cgtggttgc cccccctttt 120
ttgggagctg atgagtagtc gcgcgaacag ggccttgtct caagccttag gctaatagga 180
gttttcttag gaaacttgtc tgttactctc ccagattcca gcatttgtct ccgctcaatc 240
tcagcctcta cctcttcaac atccagcggg acggtgagac ccttccacct ctccatttct 300
gtcgcgcaa acccttccat actctgcatt ccaacaacca ggaacccaag gtcctcccgg 360
tccacatcaa acaacttcca cactctcca tcaacaagtt ttactctctc ctctcgcgcc 420
gctaagtaga tggaggctac cgcaagggca tttggctgat gcgtgacaaa aagaagttgc 480
ggggagagaa ggctcagatt gagatgctcg aaggctcttc gtgcaacctc cgttgaagag 540
acacctagcg tctgaaggta ggttaggggt atggtgtgag gtaaagccac gtgctgattg 600
aatcccagtg tgcgtaagat aactgactcg atacggagga ggatttgacg ttgggattgg 660
tatccgcctt cggtgaaggc atagcgcgta ggaatgggtt cattcggcga tcttttcggg 720
ttcacgaacc atagaggaga ggcctctttt gctagaagaa acgcgtagac agtcaaaaca 780
gaacgcggag aagtcgggtg gaatgagagc ttcgctgtca agtaaagggc ggcggcagag 840

acgtcctact cacaaatcaa gatcagcgac ggcttcttct cgcataccac gagaatatta 900
 taccttttgca gaatatatcc ggagacttcc tccctctgga cccagccaga aacgggtgaa 960
 ggcaccaatg g 971

<210> 2510
 <211> 3151
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 2510

aagctcagat tggccattgc atggaaccaa aaaagtgttg gtacattcta gtgctcacgg 60
 tcctcgggag gttgggggta agacggaggg tcttgctcgg catgagcttc ttggtgctgg 120
 agtaaatggc agctccaacg gcgacgctag agttgaggtg ttagtgagag ataagccacg 180
 acattgcgga tgtgacggaa tcgtgttcgc ttcattggag acagtggagg tcatatatca 240
 gagaacatac ccaagaacga gacctgtaaa taattaatgt aatgtccaat actgcgacgc 300
 aatggtagat ggaaattaca taccaagagg gagcaactct ggagggatct tcttcagagt 360
 acgcagacgc tgggagatgg tgtgagctag caagcgcgtc agtccagtta caccagcaaa 420
 gtcgtatata aattgtcaat ttcgattccg aaggaggttc ataccgctct ggccttcctt 480
 ctattatgtc cagttagcaa ctgccaagcc tttttttcac atcatgcaac tagggattgg 540
 aaacaggtag gcacaggaag agcaaaagag ggccgagtag gctgcatact caaaataggg 600
 gaagggtaca tggcggacga agagtgggtga tgggagccgt agactcaaga acagccctgg 660
 agtgggatga ggtcgaagtc gagaatcgga tgtggtgacg gagctctggc gatgcaagtg 720
 acttccaagt cgatggcttc ggatgttggc ttggaaatct cggcttttga gtggctcgtt 780
 tactaggcgg tcacaccgg catgggactt caggggtcgt tccaccctcg ctcttaccac 840
 ctctctgtc aacgactcga acctctccca ctccatctcc acgagtttac atccactgcc 900
 ttccaattct attttcttaa tcaagcttcg ttgcttggac gactgccgca aaaatgggtg 960
 ccattccgga agccgacct gatgagcccg ttgagaccaa gcccttcaag ttcgtactgg 1020
 tgagtttctt ctcccgagcc caattttgtt caattgcgt tcgatagatt caattgctaa 1080
 ccactctcta gccggtagct tcttcacagc tatccgaacc gattgaatcg cttttcaatc 1140
 atttccgcaa ggtaaccgag gtactggag ctgacaatct cgtttaatcg ttgctaggct 1200

atgacgcccc tttccctcaa cagaaccagt acgttatctc accaaattac ttccgggtca 1260
atatagtaac actttcctag gaccaagcac tgctggcaaa actacgttga ctaccacaag 1320
tgctgaacg ccaagggcga ggacttccgc ccatgccgcc aggtaaactc ccccaaacag 1380
ctctcaaatt tatcaggcac gctctaacag gaatcatagt tctacctcgc ttccggttct 1440
ctctgcccc aaccttggaac tgatcgggtg gatgaacaac gcggtacgtt ccatttcccc 1500
gtaaattcgc taagcaaaata taaactgata gcaatcacag aggtcggtaa ctccctgcc 1560
cgcctggacc ggtaaattat ataagatagc acctagaact caagcgttga tttaaccttg 1620
aatggttgtt cttttgtcaa catgtatact agctggtctg cggggatcct gataaagccc 1680
cattattctc ttcttctccc ccattccgtg agctagtga ggatgaaggt gtctatagac 1740
tcgccgtagt acgaaatgtg cgcattctcg tgttgattta ttatgattta gatagtctgt 1800
agactaataa cttacggcgt gttggtattg gcaatccctg ctatctgtaa tagcgtctca 1860
ttcgcatcaa actggagcgg acaataaata ttaggttccc attattgctg ttccggccgt 1920
gcagtataga acttctccc catgctagct ttccatttta tcaggctggc cctttataat 1980
ctctaagccc atctatgaat caaatctagc gtagtgctgc taaaaagcgc ccgtatatac 2040
actaagggtc caaaaccaag aaaggaagca aagtaggaaa accaaagaac aagatgcggt 2100
atccccaag ggtaacaat aaaaaagca gctaccgcg ctctcgcgt gtgcggtaac 2160
ccaagccaat gtatgaaatc tatctgcgt gagtaagttc gtgatagtga tgggctgaga 2220
atgagctag aattggagag aggtatctc aggtatctc aggtatctc 2280
agaaaggag tggaaaaggc cgtatctc aggtatctc aggtatctc 2340
gtacaggaac atctgaaggc aagccaaata tcgtatcgt ggtaggtcgt ccaaagctg 2400
acgagatcaa gatattcaat atctctgtta agtatcttg ttccggcgt aacgtatgcc 2460
gacaagacat attgcatcaa tagagacgaa gtttagttg cgttattaga tgttgatcag 2520
gaaat acccttcagg taccgataaa gcttcttggt ctcctcaagg aagataaagg 2580
tggcaacgt gtgcggacc aggcgaataa aactaggtag ccaacccga aaagctg 2640
caagtcctc ttccgagaa atttcacgga gaagaccgac gatattgtga cccgggtct 2700
tcactaggcg aagcactcat gacccttggt ttgatgacgt caacaggact gcagaccgtt 2760
gttgtagaaa accccgcagc gaaagacggt cttgattggt taacaccatt gtccttcatt 2820

actaaat ttt taagacacaa gcgctngaag actttatatg agacacgctg taggatggca 2880
 ttgggactgc gccatgaggt tcgtcccacg ccacggagag actcaaaatc ctcttggcag 2940
 tcattggcca ggcatgattg catgtgtagt ccccttggcg gcgaaccoga tggatttatc 3000
 gacttaccct gctgtttttt accttcttta cctgtgtacc ttcttgggta atattttttt 3060
 ccttcgcact ttatttaatt cccactctta cttttcttaa tctcaatcat tatatttttaa 3120
 tttatatctt ttattcctat attattcttt a 3151

<210> 2511
 <211> 688
 <212> DNA
 <213> Aspergillus nidulans

<400> 2511

catgcggggt ttgttttaag cgaggcccggt gtgtggatcg cttatactgg tcagctgcag 60
 tttgcagctg tatgtggcgg tactgcgaaa gcaagtcttg atgcggcagc cggtttgtgg 120
 ataggtggct attcatcctt gatactcgaa aacttcgtgg ttttgaggag gaaggaataa 180
 gatgaggcca attgcaagtc ctgtgcagag aagcgtatga aaccagaaga ctgagtggca 240
 tacgaacgac catagaataa agtcatagtc agtttacatt tgagggaggc ttatatagac 300
 caagttttga atcttcctga atataatgta ataacactgg ttattcctcg acaaccgtcc 360
 aagcaacctc caggaccegc ggaggcgtct cagccgttgc attaaacaca tagatttgcc 420
 tcacctcctc tctgtctgcc tccgtctcct cggcaacacc tctcagatag aatgagacct 480
 tatectcgtc tttctctcct agcggcccca gactatatgc aaatggatcg tcaccttgt 540
 atttactctt ttgccatgtc tgctccatag gtcggggctc attccacagc gtccgatcct 600
 gaatgacgct gtaccatta acaaggaacc agtccttcgt ctctgacctt gctaggtaga 660
 acctgcgaag caaactca tcaccgca 688

<210> 2512
 <211> 785
 <212> DNA
 <213> Aspergillus nidulans

<400> 2512

gcaccaaaga tcttgcacat tttccatatt cctagaagct acaaaatgtc ctcttcacgc 60

ctgaaagtgg ctttagtcac cgctcgtcc gccggcttgg gggcggccat cgccaaggctc 120
 ttagcagcta atatgcgagt cattatcaat tactcgtcag acgcccacg tgctgagctg 180
 gtacaagaag agatgagcag tattgctggt agcgaaagtg tccttaacga tcagggggag 240
 aaacagcctc gcttcgctgc aatacgcgca gacctggcaa accgagcgga catcaagaag 300
 ttagttgccg agacagtgag catgatgggc aggctggacg ttgtcgtttc gaatggcggt 360
 tggactcgca ttaggaaatt cgatgatttg gaccagaacg tggatgagga agactgggac 420
 cgggtgctatg agatcaacgt caagagccat ctatatctcc tgcacgaagc tcgggtacac 480
 cttgatgcag cgcagggatc gttcgtgacc gttgccagtg ttgctggagt aaaaccaa 540
 ggtagttcaa tagtaggttg tggtgctacg cctacctggg cgcagtttat ttttccttct 600
 tttttcttaa ccgtcaacta acataattcc cagccgtact ctgtaacaaa agcggcccag 660
 atccacatgg ttaagtgttt agcacatgca gttgggccta acatcagagt caactctgtg 720
 tcgcctggta tcctgctgac agtaagagag tctaagcga gcgtccatcg atactttgta 780
 tacgt 785

<210> 2513
 <211> 1514
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2513

taccctaccc ctctccaaac ctagggttc ccccgtttcg tgactccctc gtgtgggggt 60
 actgcaggac ctctatcaga cacaactaga atcaactcca agtcatccct gccaccgcta 120
 tccactcctg ccaactgcag ctgcatctgt tcaagtgaca acccattagg tcagcccagt 180
 ttgttcgaca ttcaacaggt ccctacagca ccatttcgaa gctatattta gagccccttc 240
 tctcttcttc cctctgaact cgactggcac cataacctct gggtttagaa tagacccttc 300
 acagatccaa gacaatgagc actcagcact tccttcgccc catatcccaa gcaggccggc 360
 tcagacccat taaattctgg aagagtagca ctattccctc caggcaaadc ggcaactacg 420
 ctggaaagac atttaccgtt aatacgggtg ccagatccc cgccattggg tgtaggacat 480
 tccaagatga agagcaacaa gaggtgccc tacttgaagc gctgaaggct ggtgtgaggc 540
 tcattgcgag agtgtatgct ctctacatt tccttcttat tttctgctcc tacatgccaa 600

ggtataatac taatccccat ttcagctatg acacagagtc tttcatcggc accgcaatta 660
 agagatcctc gattccacga gatgagatct tcctcaccac aaaactctga tgcaactcct 720
 tccaccacga cgacgttgat tctgcactat atgaaactct gagagacctg caaaccgagt 780
 aggttgatct atatctgctt caccacccat gcacgtttgc gcgtgggaaa gaccgctttc 840
 ccaaggggtga agatggactc atgcgtatgg gagagacgac ctacgtcgat acatggaaaag 900
 cactgcagga gatcatgaag aggaccagga aggccagggc aatcggagtc tcaaacttca 960
 gtagggatga gactaagaat cttatcaatg ctgaaatggg gagcttcttc ttggtccac 1020
 tcagccaggc atacgatgga ggtagggct aatgtcgttc gatgggcgca gacccagca 1080
 gtccatcaga tggaactcca cccgttcctc tctcaaaaat tcttcgcagt ctggcacaaa 1140
 agtcttgaia tccacgcgca gcagttcagt cctataggta atatgaactc gttctaccgc 1200
 gatgtctact ggagcaacag gcgcgccaac ctcgcccgcc tcctcgacga gcccgctctc 1260
 tccgaaatag gcgcaatgta ttccaagaac cctgcacacg tggatttagc ctggagcgtg 1320
 aatcatgggc gctctgtgat cccgaagagt acgattcctt ggcagatcag gcagaatgtt 1380
 gagagtgatt ttgtgcttga ggaggatatg gagaggattg atgagctgaa tgcggatttg 1440
 aggttcaata cgccgcaaga aacttaccgc tggctgctat atgaaggact ggattgagtc 1500
 taatttgata acac 1514

<210> 2514
 <211> 2031
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2514

gaacgtcaag aagactgaag aggaggagga tgatgagatc tccgaggacg aggaccccat 60
 gatgctgcag agagatgcca aggactggaa ggtatgtttg tgtcttcgat ctccataaca 120
 cgataagcag actgttaact atggatatag agccaagacc actacgcagt cctcggcctg 180
 agcaagtacc gctggcgcgc aactcccgac cagattaagc gtgctcaccg caagaaggtc 240
 ctccgtcacc atcccgacaa gaaggctgct ctcggcgacc gtgatgagaa cgatagcttc 300
 ttcaagtgta tccagaaggc taccgagatc ctgtcagacc cctcaagcg cgggcagttc 360
 gactccgtgg acgaggctgc cgatgttgaa cccccagca agaaggagac tcagaagggt 420

aacttctaca agctgtggcg cctgtatatt gagagcgagg cccgcttctc taagatccag 480
cctgttctct aactaggtga cgagaacagc accttcgagg aagttaacga gttctacaac 540
ttctggtaca acttcgacag ctggcgctact ttcgagtacc tcgacgagga tgttcccgac 600
gacaacgaga accgtgacca gaagcgctcat gtcgaaaaga agaacgcaa cgcgcgcgc 660
aagcgcaaga ccgaggacac tgcccgtctc cgccgccttg tcgacgactg cgctgctcta 720
gacgagcgta tcaagaaatt ccgcaaggcc gtcgtgcccg ataaggacaa gaagcgctctc 780
gagaaggagg ccgaggcaag cgcattgccg aggagaagga gaaggcccg ctcgaagaag 840
agcagcgcaa gaaggaggcc gaggaggccg ccaaggccga ccgtgagaag gcgaagaagg 900
ccaaggaggc gctaagaacg ccgctaagaa gaacaagcgt gtgctcaagg gctccgtcaa 960
ggatgttaac tacttcgccg aatccggcga gccctctgcc gcccaggtcg actccgtcct 1020
gactgatgtt gacctcatca acagcaagat cgacaacgag gagcttgctt ccctcgctga 1080
acgtctcact gctgcaggca aggatgctgc agctgtcaag aacgtctaca ctgaagagat 1140
taagcgtctt gttgccgctg gcaaagctaa ggagggtgag gtcaagttct ttgttttagtg 1200
tgacggcata ttgcgctttc agtacataaa accacctaca gaggtggata gagatagagt 1260
agattgtcat gagtggatat aaatttacga ttcataataa tacattgcgt ttattgtagt 1320
ctatgagcat cccatgcctt caacccatgg acaattcatg gataatcggg attttggggt 1380
tgccccgtga taagcatcgc cagcccgctc tgactgcgta tgcttgggaa gcttgtcaat 1440
gcgtcctggt gccggagggt cagaaagtgt ggactagaga ctcgagtcga agctcagcag 1500
cctgccagac ccgcacgtgc tcagctgccc ccacactcca cttcctgttc ctctatcata 1560
ctacactctc ttgtccactc atggccaatt gatatgcaac gtgcgagcat acaagctacg 1620
cgagggtgaa cctcgattct tcgcgaagcc catcttgatg ctcgaacgcc gcgatgtaac 1680
caatcgcgat ggcgatattg gttggatctc gagccgcctg cctcgacagc ggcgatgagc 1740
gacgatggca caaagctgca gctttaggct atctgccgtg actggcaagc tatataagag 1800
agaaaatccc acgtcgatct ctgtcctcgc tcagctcact ggtcctgact gccaccgaac 1860
atcaccttac ccaatagtgg tcaactttgc cggtgccagc catgtatacg aagaccctca 1920
ctgtccttct tggaggcctg tctctggcct tagcccagac ttcgtcggag cagaccccg 1980
cggcacctga gattgcagct gcccgggcta ccgtcatgcc cgattccct g 2031

<210> 2515
 <211> 3488
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2515

```

gatagaacct ataaccgaca gtcagagctg gtataggtag agtcacaggc gccttacata   60
taaatatctc gtctatctca tcgccactca gaggtagccc gcctaggggtg cgcggtagcg   120
tgccgatccgg gtcaactcca gccatggcaa ggttcttctt cttegacacg acgggtccca   180
tgccgacggg cggctgcaat ggctggagac gtgtctgccc actggctgtg ttcttgtaga   240
tggatcccg caccatctct ggaagcttcg acccgttaga gctaggactc tcagacgtag   300
cggcagttag gtgaggttagc ccgtcggaag cgatgtcttg aaacagcagc tgcagactct   360
cagctccgtt agagcaacta atctccgcat cgttcgcata aatgcagaca ccggttgctt   420
tattgcgctt gacgttgctc gcgggattgg gcctgggcat cattgtagta gcggattcgc   480
ggatctgggt taggctggct gtgtgggctg tgagctgctt tctcaactca tcagtttctt   540
tctccaacct ctctacttc ctattcgctg attaacactg ctcatgtcgg tagcggcgctg   600
ggcgtactgg cgtttgtgtt ccctacggaa cgcttccgat aacacacact cgattcctag   660
cttctcacag cgcgaacaag gctgcttttg gtacgcgtcg cagcgcgcct aaacgcagag   720
gaagtgttag caggcgacta cctaagctcg cgtccagggt tgagatttta cttctgctg   780
gcgacactgg gtacaggcct tcttgctcct cttegaaacg ctatcgggtc gcgagtcata   840
agcatcgggt attccccac cagaatcaag catctcataa agagacaaca tcttcacaga   900
aattccaacg cagaacgaag tgattgaggg ctacggggag tgggtggaag tcttccatca   960
cgaggaaacc gcttgacgcc agcagtgtta tgcaggacac aactgagaga acatcttctg  1020
acagtccagc caatagtata gtggtatagt ggttttggtc actcgcagtg ggaccagag  1080
gacattaagt acatcaaaga tggcagtggg cagtgaggct ggagctgcag agaacaagct  1140
tttgggtggc cactcactgt ctgggtcac cacgcacagc caggaatctt ccggtctgat  1200
ggaatagagg agtatcccc tgcggacagt tgcctagagc tggctcttga gtatcttga  1260
ggccccgtaa gacagatcta gccacagtta gcgcttaaag tccagttggg aattcaagag  1320
gagttctttc aatactcagg agctctttaa tccaaactct ttgatccaag ctctttgatc  1380

```

cagcaagtcc ctcaaactag ggatgtccat ttagccaagt acaaccatca atagatattg 1440
gagaacgtaa aatccaacca gattgatcgc gtacttccag gtctgaccgc cccaacagaa 1500
catcctaggg agtgcggaag gtagccacag tggttaccgt agaagtcgca gtgcaaggca 1560
ggatggggaa ttctggaccg gtaccggtgc tgtatcgctg tgatcaggca atagaccgga 1620
agggccggcg tcttttgctt atcttcagta attatgagta cagctaagag tgagagtgc 1680
agggtttcgt cgtcgatgag gtgagccgat cgttcattct agcccaaata tgtcgccggc 1740
gtcagaatgt gcattggcag taagcatata tatacagcgt ctggcctcag gagtagcacc 1800
accagtataa tcctctacca agtttgattg actaattttt gtcagctcat tttctatatg 1860
agatccagcc gaccgataga cagcgccctg cttgtcagcc cctcctcct ccttggtgca 1920
gacctctagc tcaccgtggc agccccattc ctcaggctga caggctgcac cacgaagaac 1980
tgacattcga aggccttcca tgtcattgca acaatctcgc agacttagcc cctgttcagt 2040
cacatgtgcc gagcccagtc acacaaggcc gctggcgga acactcctat gcgcttcaca 2100
acggtgcacc tcagacaagt caatgaacct gatcacgacg cccagagaca tcgcatccaa 2160
gtgaagcggc actgatgcta cagtaccacg agcattatct gcagttactt ctacctccag 2220
tgacagtgac attgaaaggt gcctccagtc gcgcgcgacc ttcccaggat atggttcctc 2280
tcccggta ca agggttgtaa ccgggcgggt gacagcccat cttacgttcg tggactggcg 2340
gacggagtgt gcttggcctg tttctgcagt tgcgtggcca agacatacga ttcattctcg 2400
atccagcctc ttttctgtcg gacagcacct gtcgctcgtc agcgaactcc tgtgccgatg 2460
taacacgggg atatgaccac ggcataatgg ggttcgcaag gcctgcgact actgctggaa 2520
atcgagggtg tagtcgtcga acagtaaaaa tcatgtttcg cttttttcaa agtcaatgcg 2580
gtggtgtctg cccaggctct gtttgagtat aattttgctg gcggctagaa agggtcgcta 2640
tagcacgctt tctcctcatg cgtaggcttc aggacactcc catacttctc tctcgaaatc 2700
ggcgtcttag ttcatacgc caatcagact cagcaattca ggaatctgcc tctcaaaagt 2760
tttcaatccc tcaatgcaca gatctctgca gactgggggt taagaaaaga tgtcatttaa 2820
cttcgaattt gattttcgtg ttaggcgata ctgacatcac ccttgccacg acaaagacaa 2880
acatatcacc aacgttcatt tatgtctcaa attcagagtt ttattgaaac aagaagacga 2940
aagcatacca tcatgtcttc tcctgaattt tccacgatcg cggacctcaa gcgcgcagtc 3000

gaatgcggcc aacgcatcac gccagaagac gtttcggttaa ttggccagat cgaacgcgaa 3060
 ctgagtgggtg aagcaggacc aatgcaagag actgcgacaga cacttgcaca cgacagatga 3120
 attttgatgc gaaacttgat gagttgcggg gaaaccccaa gccatatacc gtggagatgc 3180
 gcaggagatg aagagatgga ggtcactctt attctataaa ggttgctttt attggtttat 3240
 gaagacctcg gttcaatagc tccgtgggtt ctcttgcgac aggaggcatt gcggtgaata 3300
 ttcttcgttc ttcgtatctt ctgctgggtt ctcttttcaa ggcataaggt agcctcttct 3360
 tatatccttc gaggttatc tgtggcatct tcattccttc tctcttgcgc ttctgcttgt 3420
 ggattatact ccaccttctc tctctcttag ttctttctct tactctctgt aatgtctact 3480
 tctctctc 3488

<210> 2516
 <211> 4387
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2516

tgtcattttc cgggctcgaa attaatagctt ctccagaatcc tggctgccag atattaagtg 60
 ccttcagct aagtgaatta acccgatgtg acaagacaaa atacgacaga acagaactga 120
 gtggaatggg taagctctcg acactcttta acagctccgg ctcgtttctc taagtgagct 180
 caccattgag tcgcgagtag tctccatact atttggacgt ggctgttgac gtcgctgttt 240
 aatgtcaaata taggtaagtc aaattagtta actaggtaag tcaaattaag aagtcaatcg 300
 agacgcttgc agagcttatg acagagtctc caggggtggg agagcttgag aggtcaacct 360
 tcgcttactg aaggctacag ccaagatcta gatataaggt atgctctgta gcccaaacac 420
 gatctatcct atacattact ttgccaaaat ttacatgggc taattgctat gaatacggcg 480
 aacgcttgga gttggattat atattccact agcaaggacc tatacaagaa acacgtgtaa 540
 tcgtctgtct gttcttaaat tgagtcgatg agctcgctca ctgagtcagc attcagtaaa 600
 tttaatcacg gattctgcta caacttaagg agactattga gatagaaaat ctcacctgga 660
 ttggacttcc aaccttagta cgcagaccag acttgggtgt ccacgtctct tctcagtgca 720
 tgcattgcaga gaaaatgaag ctgctaggat ggacatattg accgagattg gtttgcattg 780
 ggcacgtcag gactgagcgt ccagtcaatc gactgaaact ccggcctgac ctgacacgta 840

cactttcagg tccaccatgg gtgcttagcc ttaagcagac tgatgcctat tcgacgaatt 900
 gtgaccacagg tgcgtatatg taatctagcc ccggtcaagg tccgcacgat tattctccgg 960
 gtgttggtgg agttattctc gatcatgatt ggcgctgagg tctaatacctt cgctcgtaga 1020
 agacaagggtt gagctaattc ctcatagcga gtgctcacct aagattatag cgcagcgatc 1080
 cggatatcaa gcaagctatt cccggctgat tcaaagcccc gtcaaacgtc tcttcgtacc 1140
 ctgatcatt tcaattgacg cgagctctcg tctaaagtgt gcaccaacta ggactctgct 1200
 cgagcgttgt taacacgaaa gaggatgttt gccttcagtc caatccccgc gtactccctc 1260
 ggatctcttc tcaccggcat tgggctacac agtttcctgc gtccgttaga ggagtacgag 1320
 cggttcggtc tcctcgcga gtcgctcgccg ttgatgtacc tcaaggcgat ccgggaatcg 1380
 acatacggcc ttactctggt cgcgttgacg catcaaggcc atgccaacgc gctgtccaca 1440
 attgcggcgg ttatattact tgccgggtctc gcagatgggt tcgtaatcag ggcacatggg 1500
 ggaccgttga agtggaaggc ttctggccat tgggcctttt tcgtggtagt agcgggggtgg 1560
 gcgcgggtgga ggtcgtcgtt tgcttgacgg gcggagtctg gaagagaagc ggacagtgtt 1620
 aattccgatg tttgcaagag ccagggtgaa gaagactggg cagggtgaagc ataggtaagt 1680
 aaagagggtac tgggtgagag ccttgccggc gccaaacgaa cgatcgcttg tcatggcaag 1740
 tgaatttgga atatcctcag aaagaaaatt tagtgagggt tatttttgaa attaacttag 1800
 ctagttccaa atagttatac tagtaagcaa agaagcccag ctgcagcttc tctggttatt 1860
 gattgataga accatggtca cctcctgtc cctcttgact tacagcccta atagaacgcc 1920
 ctcaatatgg cagactaaac agtccatcgc tctagtaacg aaaatatttc tgcttgatc 1980
 ccacttctg catattttga gaagattatt ctatacaacc aaagaggggt taggctacgg 2040
 actctagcgc atatctctct tattgagttc aactatgcga atagggacaa taaagctttc 2100
 tggttccaca cgcgtcttgt gacagttgtg catgaatagt tcgaaaacga gggttaggga 2160
 agtagtcgcc acgatgtcgg gtggagcata cggttacccc ttgacaggag ccggatggta 2220
 tttcacattt aaacatgtaa accgaaccaa gccatggccg atcagtgtcg agtttactat 2280
 ttccagaggt tatcctgaat gtattatcct cgttgagaca gatataagcc gctgcacctc 2340
 ttccccaact gagctatgcc tggagtttga tatcgaccat cgaatctgtt ccctctttaa 2400
 gcctatcagt acagttttac gtcaacaata actccaatct gttcttgga aacatgcttc 2460

atgctttctt cgcaacggga atagccaagc cgcggaatac aggacttgaa gacagcaata 2520
 gtaggcttat ctttattacc tactaaattc atagttagga acatttcttc tcagagctgt 2580
 tgtatttctg tgatcgtttt tcaatctgtc tcgagcggca gtgggttattt ttgttgttca 2640
 gggctcgtgg agcactctat atttaagtta gactgcta atcgccact gtctcaaatt 2700
 tcagacatct ctgtatatct tgcaagttag agatcatcag caactgccgc gctagccagt 2760
 cgctgactc ataataaggc ttctctagca ggactgggta ttaaataatgg gctgactttc 2820
 ggcgtttgag ctgcggccac tgacctgtgt tcgtacgtct aggttctctg ctacgacgaa 2880
 acgactcggc cttagactga aagcattgct tgggatcaac tgcaaatcat gataatcgcc 2940
 gccgtttgcc gcctgcagtt ttttaattctg atgcaccttg ttcaccggca taagactgcg 3000
 gcagtgctag ggaagaggaa gtgtctgcta aagtctgttg tttctgacct tttgtgagct 3060
 gttccgcttc agattcccat tcgttaaggg tactgagcga gagtatagcc tgcggatgat 3120
 ttgagcctaa caccttggtg cagaggcccg cataaccctt aataagccgc agggcatcta 3180
 gggtatttcc cagattcttg aatgtaaagg caaggttgag catgctgggt agcgtgtgag 3240
 gatgctctgg ccctagcacc tgtttccgag tctccattac ctgcacctgt agcttttctg 3300
 ctttgttcca ttgtccttga ttatagtata atgatgcaag gttggccatg ctgattagt 3360
 tatcgggatg ctctggccct aggacctgtg tccacgtctc catcacctgt acctgcaact 3420
 cttctgcttc attccatcgt ccttgccttc ggtatgtggt tgccagggtg tccatactgg 3480
 ttaagggtga aggatgcttg gaccctacca cctgtttcca ggccctccatc actcgtacct 3540
 gcaactcttc tgcttccctc aatcgctcct ggttctggta tgctgatgcc aggttgtgca 3600
 tacaggtaa tgtagaagga tgtgtgggtc ctaatacctg tttcctggtc tccattacct 3660
 gcgccaagaa cctccgctt ccttccagtg ccctatatcc aggtaccttg atgccagggt 3720
 gtgcaggctg gaaagagtgt caggatgctc tggccctaga acccgtttac gggctcaat 3780
 cacctccgtc agcagctctt ctgttccctt ccatcgccct tggcaccaaa atatcgaggc 3840
 tagattgtgc atgctgggta gagtgaagg atgctcggac cccatcacc gtttccaggc 3900
 ctccagtatg tgcgtcaata actcttctgc ttcttccat cgcccttggt tccggtatgt 3960
 tgatgccagg ttgtgcatgc tgggttagagt gtcgggatgc tctaaccaca ccacctgttt 4020
 tcgggtctct actagctgca caaataactc ttctgcttcc ttccatcgcc ctctatccag 4080

gtatgttgct gctaggttgt gcacgtggc gagagtgtca ggatgcacca gccaagtac 4140
 ctgtttccga ttctccatca cctgcgccag cagctcttct gcttccttcc accgtcctcg 4200
 attccagtat attaaggcca agttgcccat gctggtcagc gtaaaaggat gctttagccc 4260
 aagcacctgt ttccaggtct ttatcacctg ttctgcagc tcttctgctt cgctcaaaag 4320
 tccttggttc cgatatgttg atgcaagggt gtgcacactg gtcagagtag aaggatgac 4380
 aggcca 4387

<210> 2517
 <211> 2442
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2517

gccattcgaa atgcaggagg agccttcgtg gcagctttgt ggaacgttgg taccggttac 60
 cagcgcctta gtttgccggc aaacggagtc agaaatgggc tgcagttgag aaagaccttt 120
 tctacatccc gaaggttcgc ccccgccgga gggcaaatg ggttcgggag gtcaccggcg 180
 gccgcagccg cagaatctgg ggttctcgtt ttcaggtcgt aacttggag gccggagcgg 240
 ggaacccgac ttggacagac agagaagcag acggcgtcta gagcgaggca gaaatggcaa 300
 tgatatgtat gcgggctgca gcgaatttca aatcaggctc gtacaagagt cgtaacaggt 360
 cgtagcaggt cgttgagcgg gcgagcttag aaagcgagca aagcacgagt gagttgggag 420
 gtcattagtc gtagcgggca caggcaaagg tacaggcaca ttgaaggag gaaaaaggat 480
 gagcgacgaa gaccagacgg aaccgacgag aatatgtata aaaggcgtca cgtcaaacga 540
 aagggatgac ggagcagagg gagaggagaa ggaggaggtc ggtggagaag gcgaagggaa 600
 gggaaagggg aaatagaaga ccgagaaaaa atgggagggg agggaaaaag aaaaaacagt 660
 gacggtgaaa tcgcaaaaag gtaagtaggt atgcaggcgg taacagagag agacattacg 720
 cagtagcatt gaagaagatt catgctaagc aggcgggact tgcagcagat catcggggtg 780
 gagaggaggc tgggaggctg gagcaaacgc aggctaaggt aaagagggga agctgttgag 840
 ggatgggatg aactctgaag gctggcgccg gcgcccttga cttacctacg atgtactgag 900
 cactgtcttg gtcgtcttgg tcgttttggg cgttttggtc gtcttgctcg tcttgtctgt 960
 aaaggcacgt gtgctgctct gcgtcctgag tctgtctgag acggatgtag ctgcaaggca 1020

aggcaaggca atttcctgcc agactgactt gagtcttgac tgtctctgcc gctgctcttt 1080
 aagaccgggg gaggcgaaag agaaaaagga aagaagcctg ccataacatc ggtcgagctc 1140
 ttgacttatt attatgtott atggatggtc ggagtcagca tcccagcggg aattcaaaat 1200
 cccaaaaatc cacgtccacc cggtcagacg cggtagcggg aaatgaaaat tgcagcggag 1260
 cgtgcacaga ctatactcca ttgctcagta ttgtcgccac gaagcaagga ccagccccgc 1320
 cacgatgtgc aaacactaaa cactaaacac tagacactga tctgattagg acaaataata 1380
 attttgactg ctatcgaacc atggatgcct ctgagctaaa gagagctaaa gcactgctgg 1440
 caggtttggc cccgatccag ctgtaagtca tcgatcgggtg gatcgacggg atatggcgat 1500
 gctggattta tggaggagca gtactcagag tatgctcgcc cgactctcca gagtccttcc 1560
 ttccagaaac gtcgttccag tcatgcttat cttctcacca actttatcat gacaccgtac 1620
 caattgccag atccagggcg actccactgc cctgagagga accacggacc agcgaagtat 1680
 acagtcactg tatgttccgt acgagaaatg gcggtgactg gacagggagc ttcaagatga 1740
 cagggagagg aatcgtcctg taataatacc gctcactaag cgactccaga tcggtgtttt 1800
 ctctcgacgc gattcatttt ttcgagaatg gcccgattcg atgatcctgt ttgatcgccg 1860
 gactacggag ttccttcac cttcatctac actgacactt ggagatcggt attctacgca 1920
 gcgagtattc taggagtcaa aacaacgctc cggcatcccc gtcgtcgagc aaatgccacg 1980
 cccaccgatc aggaatattg ccaaaaggac caatgcaagc acgcgggaac caccaagga 2040
 ggttacacgg ccagaagact ggaggggatg cgcacagcag caaagaaatc cagtgggtcca 2100
 gaatgtcca cgaaaccagt ggcggcgatc ttagccagct ggccagtagc ggtccagtcg 2160
 acggtggctg aagaagacag gattgcagaa cactgaagcc aggacgttga ttcttcacgg 2220
 cagattcgac cctgtactgt tgaatctgag gttgagcttc tccctttctc ggcgtctatc 2280
 taggcgccgg gggcgccgcc cagatacgt agacctgtca tattgacggc caaccaccgc 2340
 tggccagcct cagtctgagc agcgaccgag tcagttcagc ctctcgtgtg tatgtactgc 2400
 acatagatct gaccgcgccc accggtgat tggcctgctg cg 2442

<210> 2518
 <211> 2147
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2518

aagtatttgt acctaaaact atggagtggg cctcatcacc tctggacgat cgatagccta 60
ctttctattt atggaatttg ccttttcgca tttctggagc cgctgtgaag agtgaaatga 120
aggaccatgg gtggaaaaat ctaccatgac cttttggagt aatggtaaac atgccacggg 180
gatcatcggg aggtgattgt tttcttcag tggacttttg gcctcaataa ccctgtctaa 240
agagtctgt cacaattgg ggcaattcgt ggtactcatt tctaaataga ttcccaatcc 300
agtaacatcc gaggattgag atacgcctcg aagtataacg tcacgccctt cctgcagttc 360
catggcgtgc tttcgctac cgaccaaact gacttcatta ttgaagggcc cgaaacgata 420
cttacaagga aatctcgctt ctactcatg gcaatccat aatgtagatc gctgcgtcat 480
gtgatcacag atcagtggga gcttttctca ttacatgagg aaagtccgaa gattgcccg 540
cccaaactc aagcttactt gctccaacct ccaaaggcc catctagacg ggtgggggtg 600
atagtggata tttgccagct ttcgtgatgt ctaaccgcac cgggaccctc gtattcggca 660
tctaccgcca tgccgatat agaaagcgac tgggttagta tcctctaacc tattttggct 720
agatttgaat attaatgcaa acaggacaaa tagaacaac atttgcccc aatgtcatcac 780
atcgtcgcaa acttggttac agagcatgtg tctagatagc caagctatac agctcagcac 840
ttcaaaccag gaaaatggcg gacactgctg gctggagcac aattgagtct gatgaggtgc 900
gcccagatct tgggtgaatc ggttaagagg atggactggc tgatgtgctt ccgtttcgca 960
gggtgtcttc acctctctag tcgagaacct cggcgtcaag ggcgtgcagt tcgaggagct 1020
gatctcgctt gatctgata ccatacgtc actgggtgc atactcaacc tacacttact 1080
tcctctccag aagactaatt tcacactgca acagaacagt ttacggtgta atctttctt 1140
tcaaatacct ccgcaaaca cccgacatta acacatcctc atccgccgac ggcaccccaa 1200
ccgaccctc cacgtccca cctccttct tcttcgctaa ccaaactatc caaacgcct 1260
gcggcacaca agcgattctc tccgtcctgc taaaccacga cacccttcg ccagagaaca 1320
acaatgaccc catcaccctc ggccctgagc tttcctcctt caaggatttc acgacgggat 1380
ttccctcgga cctgcgcggc gaggcgctt caaactctga agcaattcgt accgcgcata 1440
atgcgtttgc gcgcgcgagc cccttcgtcg atgagacggt gcggccgcgc gacgaagacg 1500
aggaaggcga cgtgtaccac tttattgcgt atacgcctgt gaacgggacg ctgtatgaat 1560

tggacggatt gcaggcgagc ccgatatccc atgggccgtg tgatgcgagc atttttccgg 1620
 agaaggtgat tgaggttcta cagaagcgaa tcgcgcggta tcctgagacg gaaacgaggt 1680
 tcaacctcat ggctgttgtg aaggatttga ggatccgggc tgcggagatg ggggaccagg 1740
 aagcacttaa tacggaggag agaaagagag ctgggtgggc ttgggagaat tctttgcgca 1800
 ggagtaattt tgttgggttt attggagagg tgctgaaggg ggttactaag gtgaaggagg 1860
 aggaggggaag tgtggaggag tgggttaaga gggctgaggc ggagacggca aggagattga 1920
 ggcgttacga gctttcctct attttcagta tggacgattt ggatcatgga tgaatgggtct 1980
 ttgtattata ctctgcagtc cctggcaagt agtctcttgc attttcgggt tcatgccgct 2040
 ctttcttcgc atagggggca ctgcctcatg gaccgcaaca tagtcatccg attcgaagaa 2100
 tggctttgag tattaacgat gccatccatg aatcaaaaaa gccaaagt 2147

<210> 2519
 <211> 874
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2519

agtgtcactt aaagactgcg ggaggtcaca aagcgggtga accgctcgcc gctcgggtacc 60
 ggtgcgctcg cgggtaaccc ctccacatt gaccgagagg ctatggctaa ggagctgggc 120
 tttgaggggc tcctgtacaa ctcgatgaat gccgttggcg atcgagactt tgcgatggag 180
 acgatgcagt ggggaagctc gtttatgctt aagatctcgc gctgggcgga ggatctgac 240
 atctactcca gtctggagtt tgggttcgtc cgcttgcgag atgcgtactc gactgggtcg 300
 tcgttgatgc ctcaagaaga gaacgctggt gcgttttccc catgttctgc gttatgattc 360
 tctaactcatt gtatagacag cctcgaactc ctccgtggca aagccggcgc cgccttcggc 420
 cacatggccg gcctaattgtg cacgatcaag ggtctcccta caacatacaa caaagatctg 480
 caagagagtg tcgagcccct cctcgatcac atcaagaccg tcggcgatag catccagatt 540
 gcgactggcg tgctgtccac gctgaccact atcccagaga agatggccgc cgccttggca 600
 cctgaaatgc tcgccaccga gtgcgccgac taccttgctt gcaagggcgt gcccttcgcg 660
 gagggccacc acatttccgg ccgcgtcgtc cagctcgctg agaagcacgg cgttcccatg 720
 gaccagctta gcctggagca gctcaagagc gtggatgaca ggtttggcga tgatatccag 780

gagtgcctgg actacgagcg gccggttgag ttgaaggatg ctattggtgg gtgcagtaag 840
 agggcagtgcc tggagcagac ttcggtgctc aaga 874

<210> 2520
 <211> 1419
 <212> DNA
 <213> Aspergillus nidulans

<400> 2520

tcctcagcct ttttgttatt cgagccaggt catcattaag ctgtgcacca actcatcagt 60
 cccagcatca gtttccgaag acccctctc tgacgattga tacgctgacc ggttggacat 120
 atcgaaggct tgaatgcacg taaatcaata gcctcggcct gcaaagaaaa aatgcataga 180
 ataggggcaa aagaagtttt aaaaacggct cctttgcgag gagtctggcg gatattgttt 240
 tcctgtcac ataagagact atcctagcta ttcagatgtc gctttcatcc aagggtcac 300
 aatgtaacat taatttctag aagacgagtg aagacaagaa aagttggaat catgtcaaaa 360
 acgccgccgt tgaccgatt cagagaggta catagaaact gactgatgaa cgtcgaataa 420
 atgctgcctg aggcttcaag tctcttcgaa gggtcggtag ccttaatttc cggtagtata 480
 ttagtcatca acactaagct aaccacgata ggcacatg agcttcatgc atttccacag 540
 cccctccaaa agaccttggc ttgttgagac tccagcgtgc cacttcaggg accacttttg 600
 aattcacaga cccgtggtac ttgatatacg agatcccagt ataggcgcca gtgtgtgtcg 660
 tgtcgtttca atcgggatga aatcataaga tctcgttagc tacacctatc ctccctcgct 720
 ccactggcag tcatgcttag ctggagcctt caccggttga tatagattcc tctttcttgt 780
 caagcctgag atctcagaat taaaggagct taaccgacat tttgtaaggc atcgtcgtat 840
 gtctattcac tctgttctcg ttcctttcca tccgccgtaa gtcatacttg tgggaaatca 900
 tggcatgggt gcagtgtact gacggcttct agacatttaa ctgcaaaaaa aaaaaaatct 960
 ttgcccatag caactgggtc tataaggcat aactgcctag tgcataatcg ccgatactct 1020
 tcaggacctc aaccttaac tttggaacag aaatgacacc tgctcctcca tcgaaccaag 1080
 catgacgcga acaattagtc cgaacctcta acatcccgca actcgtcgtg gtcatagacc 1140
 tttcttttga atcatttact tggactttct ctcccgctgt attcgtactt gtgacttaag 1200
 caccgttcga ggttgacata agaaatgaac ggagaagtct ccccttgtga ggacctattg 1260

agctaatttg tgcttatacct acacgttggg ttctcacgtt tgggtctaaaa acgtgcaagg 1320
 cccttgacta aatctgtcgg ttccatcaac ggggtttaatt ggaatccata tttgcattca 1380
 tacatacact tgcaagaatg ccttctgaca gtgagatgg 1419

<210> 2521
 <211> 1217
 <212> DNA
 <213> Aspergillus nidulans

<400> 2521

gataaggagc agcgaattcg gcgagttaag caagtaatat tgcagttata cagatcctat 60
 tgcgcgtttg accactatcc ccaatctgag ttaagttctc aagagtagct catggttctc 120
 acagattcct gtgaactggg ctgtattttc aggggtaaat gatttgggag ccaaatactg 180
 gcctctccgc tttcgtgggc ccttgcgggt caccgctga gcatgactaa tgccttcctg 240
 cctgaggctg gagactcctc cagagctatg aactgacctc cggatgaaag caaatcagcg 300
 gtaaactcag cggatatagtc actattatgc attctagacg caaactcagt gctaacaggc 360
 ttacagcaga agaaatacga gtacgcttga aactgtact ccaacctgta ttgggtccagt 420
 cgtactagtg gcatagaatt tgaagcgtac cctacgaaga aaaaccaaca ggaccgtaga 480
 cagtgagtct acagaccaac agggctcaaag agcaaagtgc ccaatttata gtaatagacg 540
 aaaacctcat aagagaattt tgaggctcgc ggggcagaag cagatgatgc catggaaggc 600
 ttagcgccat gtggatccgg gacgacaagt ccgaataagg tcagcggagc ggtcgatctc 660
 cttgatatct ccagactcct aacctcttat ccaacttggg catctaccaa ctctgcgtcc 720
 tacatacccc accattaaga tgaatacagag gcaaatcatc gatgactcaa aaggcccggg 780
 gtcctgtcgc gcgagcttca atagtgacaa tacttgcttc tcagtcgggc tcgataccgg 840
 gttctgcggg aggttgagct acgacctata tatatgggat ctcaacccca atactgaggc 900
 catgaagtct atagggccaa cccatgcgag ctcaaggtgt ctaggagtat gcacatctct 960
 accaacgttg ctttcttaca actaccgagc gcattgacac tgaccgcgga gctttctaga 1020
 cttcggcgcc gggataggcc ttgctgtcat gcttgacag tcaaactacc tcgcacttgt 1080
 tggcgcggc aggcaaccga agtttccaca gaacaagggt cgctggcctt ctagtacaca 1140
 tacgggctct gctgacggca taatcacagc tggttatctg ggacgacgca aagcaaaagg 1200

tcgtcatcac tctcgag

1217

<210> 2522
<211> 1886
<212> DNA
<213> Aspergillus nidulans

<400> 2522

ccccgttga atatcctgcc cctgcaccct caccgtcaaa gcctgcaact aaagctgttc 60
cttccaagcg tacgctccca acaccgggcg gtgcactgaa aaagaaactt ggtgggccag 120
gaggtttagc ttgcctcaa aaacgagtta tttcaccacc ttctgaagag caacctcagc 180
aacctcctgt ctcaaagttc ggctcggga gaggccttgc gggtcgccca attgctagac 240
cgccagctcc tgccgaacca gcccagcac ctgccgctcc tgctgtgagt ggacttactg 300
ctatagaacg ggctgagctc gaggagctcc ggcttgaaaa ggaacgactt gtccgcctaa 360
atgaagagtt gaggtccgag aaagcgaaat tgagtacaac aataggagag cttcaaaacc 420
aaaatgcgca gctcattgaa gatcatacga gagatgttct gagcatcaag gccaaagaga 480
cacagctcac ccgagcacga agtgacgcag aggcagccga tcagaacgtc cagaagcaaa 540
agcgggagat tgaacgtttg aagcgtgagc tatcaagagc ctttcgttcc ggatcgatga 600
gttctccaac tgctattcct gatcagtttg gcatggcgat gcctgacccg ggctccttat 660
accaagatcc gaacaatgct cattccgcag tggcgcgaaag tggctctgcat atgggtcctc 720
ggttcgaaaag tacggggcca cggagctatg cctctgctag ccctagcgag gagaaggaaa 780
atggccttga atcacggggg cttggtcgac ggaagttagc ccctacgttt ggaaatcctt 840
actcgggtat ggctagtctt acaaggtcat cccttgctcg atcgggcagc gcctcaggcg 900
aggaacagcc gactcgaagt acagaaccgg cagaaaactg gaggagagcc gctgaagtca 960
caagccaatt gaaagctcga atcgaacaga tgaaggtagc catttgata ccctcagttt 1020
actacagggt gccagcaaca tgaacatgac taacccttat catagggttaa acaaggcctt 1080
attggacgac aaccagccca acgctaacga tctaacgccc gtccctttaa gtttttgcgt 1140
ttctcttggt tcagcctagc gagttttcac ccttcctgta cggtcactt taggaatgtg 1200
cctgattttg attcccatct tctgtctaga atgtattatg ccaggagagc tgtgagtttt 1260
cgcttgtgtc tcttttctat gttttgcttt tccattgggg gtcaaaaatg ggattctttt 1320

atgggatgat ttcttaatat ctccctgggt tgcataatggt cgggttttctt catttcgttt 1380
 tcttctgtca ggcttcggag ctacttcgtt agctattact tctgcaagcg ctgataactga 1440
 ttggtatttc ttgatacatt ttctatgctg tgatcatgta ttatcgggtgc tcctttggcc 1500
 ttgtcgtagg cgggggttaat acttaattgg ctggcagtga cggactactg ggtaaagggg 1560
 tgtagggagg gaccctatgt tccgtaggag gtattcgggg cctgaggctg gtataaaacg 1620
 aaccgaggtc ttgagagtct tgttttaaag ggaccgttta tcaaacagcc ccagcctcta 1680
 ctatgtaatg ttatagaggc ggtcatttaa atacacaagt agtcacacga cttacaacgt 1740
 ataggactgg tatgcacagc gaccgcaatt ttaactccta gaaagttagt ggctttactc 1800
 agcatctacg cagtacgcca atttaactat agcgggcaga ggactcatga atgctagtcg 1860
 tacagattca ttacagaggc gcatcc 1886

<210> 2523
 <211> 1044
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2523

tctgatggac cgcggaatgg aatgtgattc tggttgaggg gtcatgtcta gtagcgtagt 60
 gagggggacc agctggagaa tgcgcgagga tgacaggatc ccatctgaga cgcctacagt 120
 acgaacaata tggcaattgt cttcacgctc atgtagaagc ccgaggtagc gttgggtatc 180
 ctgtacagaa ccgagcgaag cacagatgtc aaggatccga acagcgtctt ttggaatgct 240
 ggaagacgcc tctgcttctt ttcgactgct aacaatcgaa accttcgcgc cgcgtttctc 300
 atgctgtgga tctgtggtgc ttttcgagcg gacgctgact gccgttgaag tgtcgtcgaa 360
 gcctggctcc catgcctggg tttcggaaga aggagcacac gccatttcca cttccgcggc 420
 gtacctcatg ctgctagtac tggaatgact ggccgtgtga gccacgcgtc cggaaatcaa 480
 agggaagtag acgtgtagtt ttacccctcg gatagaactg ctgagcccag actcgatatt 540
 ctactgccc ctggagagaa gtagctcaac cgagtgggga gcacggcatg tgcaccgcag 600
 tgccctcgct attgccttat gaagacttgc tgcttgtagg cgaaattgat ggaagaccct 660
 gggtaggttg gccgttcgtt tctttctcat cggttccaac cggtcactgt ttccgagcag 720
 ccttttcgtg tcttcattgg atttttcgag ctcacccatc agcttctggc gacgcttctt 780

gcccacgtg tacgtgaacc ttcgaaattc gaattctaata cgaacgaagc ttacccctgc 840
 cacttgcagc cgttggtggt tctggctatt attagttcca cgattcttta cctaacggtt 900
 gactcttttc ttcgatatca cgcacctggt cacctgtaat atgcaacctg ctctctaact 960
 tcccaagcac agtgtgaata aacaagatga tatccataca acaatcatac tegtgtgcgc 1020
 cagagaacct ctctataact tcca 1044

<210> 2524
 <211> 3110
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2524

tcctcagacc gaaacgcctg cagcttattc accagcatac ggtattcctc cgtccgcctt 60
 ctgaatttgt ttagaccgaa atggctctgtt tccataagca aagattgcac gccatccagt 120
 gtagcagaat ctcggggtac cagtctttcc ttcacaaatt agatgagttc cccaccataa 180
 aatcgcagaa aaagataaac ctaacctttt ctcggttcat gttcactatt ttccagacat 240
 tagaacactg cgtctcataa caacaaacca tttgcggcat cagttcatga tcgattgcca 300
 gaaaatcagt catcagactg aaaagcatct cgtttccagg tctgaggatt tccagtatgc 360
 gctttataat atgggcttca cgtcgttcgt tctcgttttc caggctatca atttgctggt 420
 gagcggcgga taagatttgc ctgtttgcta acgctccgtg ggcgcctcga aatggcacac 480
 ccataaagac tatacctaag gtggcgctaa aaatccgagc ccatttattt tggatgaagct 540
 cgtcgtggta tgctgtcaac aggctctggc cgacccgatac aataggctgt caatagcagc 600
 agggcagagg catgcctacc cttgctagaa ccagcccacc gacacagtgc gcaatgaata 660
 ggataggctg gtcttcaaca ccctgggggt tcttttagtac gaggtcatga tcgggtgatt 720
 cgcattgcag aatttcctct cacctttcga gcccttgcca gactgtccaa caacctattg 780
 gcgacttcag cagaagtcac atcgctcggc cgctgtccct tccattcgga ccgataacca 840
 aatatcatga cacgggcccgg agaaaggctc gtcaatagca tatcttcata tctcagccag 900
 ttcacgatgc tttttctatt aggggtccag tatgaccacg ggtgaaatgg gtgggatccg 960
 atgccgtgga tcgccactat gcttttcagg atatgagaaa ccatgctctt ggagatgcaa 1020
 gtgattgtga ttcttactct actgggtctg agcatagaac ttccgggact tccaaaatat 1080

cagtgccct gtgtccatct cgaatgtcgt ggagaacatt caaggcgagg atgtccaccg 1140
agtcattctgt catcctctgc cttactgat tccctctttc gttagaagga ttttattcag 1200
tgcattcaac aaccactatg aatcaattta cttacattat tgaccagac ggggaggtgg 1260
taataatact gcgccatgca aattctcctt ttgcacaact ggacgaggct agagatgttg 1320
gcagggtctc acatcctctt ccaaaaaatt atgggataat gtccaatgtc ctgccgaaag 1380
ttttgaatac ccaacaataa gaatcgaaga acctgcccc gaggtcgtcg atgagccagt 1440
cccagaggcc gccgacgaac cggccccaaa ggccatcgat gagtcagtcc gagagactgc 1500
agaggaacca accccgtagg ctgccgaaga agaacctgcc gcagccaaag aacaaccatc 1560
caagaacctg gtcgatcctg aacttatttg tagaccgctg aacaaaaact gcttccgcat 1620
caaagtctcc gcgaagcatt taataccagc ctcagcagtg ttcaagcaat gctcactggg 1680
ggttgggtag agagcattac atatctgcta aaggacttag ttgattactc ggagagttgg 1740
gatatcaacg cgttcatgat cctacttcaa attatctatt gccaatccca cgatataccg 1800
cggcaactcg accttgagtt acttgcgga gttgctgttc tagccgacta ctatgactgc 1860
ggggaaactg tagacatgct ggcggaaca tgtattgagg ctctgaagaa aggtattccc 1920
acagcatatt gccgggattt attattttgg ttatgggttt cctgggtattt ccggctccct 1980
tctcagttca aagaagctac ttcaattgcc atgttatggg gtgacaatgg gattagcaat 2040
ctagggcttc caatcccga atatgtcaca agtaaggatt aggaaactgt tcatccttcc 2100
cgtgatttgc tagtagcatt gtagaatcga agaatgtccg tagggaggaa gccatcgata 2160
atctcgtaa ccaacatcat gatacatgta acaccctcct aagcagcgat ggaggacgta 2220
gctatatgtg cagctcgatc atgcatggcg cacttacacc ttaaataagg cctccacgcc 2280
tcgcaactcg gtcttttgaa gggactcgag atagcatgct ggtactctca tggagtgaga 2340
gtagttattc cagataggac tgcttttttt ttcttgagg aaaggaacgg ctttagcttt 2400
attccctggg ctaagaaatc tgagacttca agtcattgtc aaggagcgta actacaaatc 2460
cagcgtgac gacaaagaca tacgaataca aatccgagtc aaatgagagg atatcatccc 2520
tcctcgtacc ttgccagaat tctctgcaag ccttggtcca catcgctgta caccgcttgc 2580
cgaaactctg cgttggttaag gtctgactc gctgcattga aagcgcaata tatgcaccgc 2640
cttggtatgt tatgcagctc tacgcccccc tcttcgagag tctgctcctg ccatttctgc 2700

gcggtattga aatccgtaaa ctcatatttc atgccgtccg gacctaggaa ctggttgccg 2760
aatggcaggg tctcgatgcc ctccccaaac caaagctcca tgatgatgat tccgagggaa 2820
agcagcgaag tcttggaactc ttgatatgaa gcaatccccg tgacggcctt tggagtgttg 2880
gttagcgtct ccgacggggc tgcaggctgc tcgatggcga aatggctgat aagcacgggg 2940
tggtgagttt cgatagtgcc ctgtttcgtc tgaaataggt agacgtcgtt cttgctccac 3000
gtgtgtttca gccacggacc cggctggagc tgtagaacag cgcgagcgag agtaagcgca 3060
atgcagagcc tctcttgacg aggaatgata gccaacggcg gagcggagat 3110

<210> 2525
<211> 2405
<212> DNA
<213> Aspergillus nidulans

<400> 2525
aattggaaga ggctggcatt caggtcacct ggcaccaata cgaaaccctg tgccatgggc 60
tttctgcaga tgggtcccttg gagctctact gccatgaaag cgctgcttca agttgcacag 120
gatttaagag atacaatcaa gagggtcag aaatagacac tcaagacatt gcgtagtcag 180
tgtagacgtc aactttgaag ggccaacact cttttgattg gagctaata tagtccgaat 240
atacattaaa aatgtttaat aatagaggaa cgacgaggct tgatctaata gcaaagcgta 300
gaacaaggca tcatgttcag agaagaatct tcttggtac ctcgagttcc tcaatctcct 360
tcatgagttg taaccgctgc cttttgataa ctggatcatc cccacgatg cctgccagct 420
cttgctcgga taggcgatac acaaacgtag gtgacaaaag tttcagcgga ctgctcgggc 480
cactcagcaa aaagtagttt gcagactgca tgcagacgtt gtcaatgaag cggtcatgg 540
cgacgttgta atatgagtgc aagatatcgt gaatctgctg gaccatgtac tcccgattgc 600
ctatccccgg gagcgccgct ttgatatcct cgaccggac cactttgccc agggcagcat 660
tgccggcact aaaggtcttg tctgctatgc acttttgcat ctttgagtcc ggactggaga 720
ccattagtcc actctagcac ttacagggtg agacttacca ggtttgcaaa gtctccacaa 780
acgatgggtg tagcgatatc agagtatcat ttcggtcatt ctccagcaga aattgagtat 840
gggcaatcgc attcgtgtac ttcttctgca gatcatccat catgatggcc agcaggccac 900
gagacatccg tccatcttgg cagagatcag tcagcacgct gacgatgcag gcgttgacaa 960

gggcaatgat atcgctgata taaccacgag cgatgctccc ccactttttt gactgccttt 1020
 tcatgacagt cggtagaagg gagctgttga gtgtaccaag ctcaaaccce cgagaaccaa 1080
 gatactcggc ctcaagccat gaatagatgt cgtcttccac aggagggcta ataagctcag 1140
 ggccataaag aacgtcattc agttcgactg tactgtcgat cttgcgggtg ctgaccatgt 1200
 tctcctcatt tccctcgteg gtccggaccc ttgtctcga caacagagat tgactgctct 1260
 cgggtccgggt gcggaaattg tagacatggc cgagattcat catgtcggac cttaaactgct 1320
 cattgcgctc gatgacagtc gtggcgaggc ggaaacgttt gaccttgta aagatactgt 1380
 ttgcaccgta gttaccgcgc aaggcattgg acatgacttc ctggtatttt gctacgagat 1440
 ccaggaggaa gtcaatttgc tggcttcggt tcaatctttc ctggccaagt gccagcagag 1500
 aggctgagt ctctttcaac tttttattga tatccacacg tatctaggcg ccatcagcaa 1560
 aaatcatagg cagggcgaag atcgattctc accctgggga attcccgteg ggcattctct 1620
 gtgacagttt cctgtagccg ctgcctgagc gattcaatac caaatcgatc tgcgggcaca 1680
 aggcccatc cgggtctcga tctgagctct gcctctatgt ccgcgcgagt cttgtctcca 1740
 gtagcgagct cgctcttccc aagactgcgg actagaacc cagcgtgtct gagaggcatg 1800
 gtcttgcccg taatcaagtc caacacattg tgctcagctc cgcgatcgac cagatcaggc 1860
 tttgtgagca cgccaagggt gcgttgctct tcaggatcga cttcgcgagc tctttcaatt 1920
 acttctcgcg ttgcagcgtc gacgttggcg ggaacgacag ccaggataat tgaacgtggg 1980
 ttgcccattg gtcctgcac cataccgcgg accatatcga tatcgtgctt ggttgtcaca 2040
 ccagggtgtc cacttttgaa gattcctgga acgtcaatga cagccagatg gtcctcattt 2100
 gggccgctga tctccagacg aaagatgtgt cgggaaaatg ttggcttcga cttgtcatcg 2160
 aggctgcgaa tgcccatcac cgtatgtacc tatcattgtc agcgacctcg cagcagacac 2220
 tcaagaaagc ctacctcggt tatcatatcg gagaacgcct tcggatctag gtaagccgat 2280
 tcgcacctcg accatgcttt cagtctggca acgcactcag ggtcagactg cgggtgccggc 2340
 ttgatggacg cccggatact gcgaccaaca tgaccggagg ctgggcggaa gatgtatggg 2400
 tacga 2405

<210> 2526
 <211> 2165

<212> DNA
 <213> Aspergillus nidulans
 <400> 2526

```

ccgcagtcct gatgctcgga tagaaaggat ggcacaagag gaagaagaca gccaaaaagg  60
taacactcag aatgatgata gttttaagct gtttgcgacg ctggaagggtg aggaatgagg 120
tgcgagcgta ggggtgcaggg ctaaagccct ttctaggtgg aacggcaaat tgcattggtgc 180
ttaacttgtc aactaatgat cgcattcctgt tttatccttt gttgaaagag tctagaggaa 240
gtgggagtcg gaagtgaagc aaagcttcag ccgacatgat actactaccg gatgcggata 300
acaaggctca gtcccgctgg gatcatcctt ggaacgaaag gctggatgac taccaacgct 360
gaggaaaagc gcttgaacgt gcagattgag aggattcaga agtattggtg aaagataata 420
tggccctgta gagtataaat acagcagaaa agcaaagtga agaggagtcc cgcaaagtcc 480
cttcagagaa tctaagttcc catagattcg ggattaatgt ccggcaatca tcatataata 540
caaatactca acggtaatc gcgctagaat tgtcatgcga attgacgtta atggttcttt 600
tcgttgtagg ttggcttcgt gagttcggca atgttggtat gttcctccac ttgcgccttg 660
acttcaccct ccttctgttt caaccactcc tcaaatgacg gcggttcttg cagtcccaaa 720
cgctttcgct ctgtcttaaa ttgctcttgg attttatcag tctgcatcac ctgccatcga 780
agcttccatc caaaaacacc caactccttg attcgcgag gccgatcgtc caacaagtat 840
tgatcaaggc cccagcctt tcgaatcggt cgcaaagcct ttcttgtaac cttgatgaaa 900
aggaactgtt gaagtgttc actccatagc ttctttcgtc gcacgttggg cttccagaac 960
cgacgcgttt tcccttcgtt cgggccttgg gagatcttat ttccaaattg aatcgttgcg 1020
ccaccgtaga gaccggtgtt ggattgacga aacatgtaat tcgggccata aggatatggc 1080
ggaatgtagt ccggtacttt cgggagcttc tgggcaggtc gtgttggtcg gaacgatcgt 1140
ttcgaggctg tcaaggacag gtcccgaaa gccgtgtaga gagaggattg gaaagacatg 1200
gtgaatggtc aggggcctgc caatgcttct gaatagagtc tcaaacaagc tggagcatgg 1260
caaggtcagg aggcaggacg agtagtgctg ttgatgaggc tagagacaat ttggttggaa 1320
gaatttgag ttgctgaccg ctttggcata atagcgaacg gatttcagca acagctgcat 1380
tctagactcc tcattatcaa taattcgttt cttcttttcc atattgggtt cgttgtcttt 1440
gaattggcta cctagtatat tctgatcttc ccggtgtctt ttgaaagaac tctcttcccg 1500

```

cattcgtcat ggtccaaatc agcgagggtca agggcaattc gcgcgacaac agaacagctg 1560
 cccacacgca tatcaagggc ctcgggttac gtccagatgg tactgcggaa gtctccggcg 1620
 atggctgggt aggacaggcc gccgctcgag aggtacgcga cgcaatggct ccctgcctga 1680
 cgcccttttg agctctgtac gagagctgca aaagaagtaa acggactggc taacgtaaata 1740
 tcacaggcat gcggggtcgt ggtagactta atcaaggcta aaaagatggc gggccggggc 1800
 gttcttcttg ctgggtggccc agggactgga aagaccgctc ttgcccttgc tgtgtctcag 1860
 gaacttggga cgaaggttcc tttctgcccg atcgttggtg gtgaaatcta ctccgctgag 1920
 gtcaagaaaa ccgaagcgct tatggaaaac tttcgagag caattgggtat ggagtgggtg 1980
 tatgacattt tgggagctca aacgctaaca tcttggttag gactccgtgt gcgggaaacg 2040
 aaagaggat atgaaggcga agtcacagag ctacaccccc aggaggctga gaatccactg 2100
 gggggctatg gtgcgacaat aagccatctt attatcggt tgaagtctgc taagggcaca 2160
 aagaa 2165

<210> 2527
 <211> 941
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2527

ggactatctc ctcgggggtat aagtgcgggg agggggaggg gaagcgcagt cactaggact 60
 ccctcttatt gtggcgctctc ctaccgggc tcaacgattt tgtacacagt gagagattta 120
 cccgtatcct gatcttctta attacctgag ttccagccag ggcgatgttg gcaagccacc 180
 tgagaacccc cattctggcc actgactcgt cgggttctgac cagcaggaac ccctagaata 240
 tctgacagtg gacatgtcca accatccagc ctacagatct tctagccata agtaaatactc 300
 aacaccacgg cgctgactac caagccagta caacggtttg gagacatgca taaaaagagc 360
 attcttccgc tgatcattga ggtccgagggt ttgggagctg cagcaacttg aagcgaagta 420
 cttgcgggga atgaatgaga gtttccacta gtcataatcc aggactagct gtatctccgc 480
 aagggtgtcg gtaaccacaa agctctaatt tgccgtacta gtccaaagct ccactctgcag 540
 gtcttaagtc cccttacagg gtcctaggct ctttcaatga ctcccgcatt tctaaggatg 600
 cgcactagag ctgactttca cttttggaac ggtatagcca tgaatgcacc acgcagcgag 660

tgcttttttg tgtgctgtat agaagagctg acaaagtgat agacaatcca ttcagcctaa 720
 agacagccca gatcttccac tgggcatacc ttatagttcc ttaaaagcga ttagcgtaaa 780
 ttacagtggc cagtcaccat catcgcttgc atttagaatg catagtgtaa ctacaggccg 840
 tgaggggtgc cttcaggccg gagtataaat ctattgaaga tgtagacaag aaacagctgc 900
 tactctgac tgtacaaggt gttaatgagc ttgagtgagc c 941

<210> 2528
 <211> 5992
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2528

gaatggagtg caaaggcaat ctaaacgac taaacgacat taattttatt cacttccggc 60
 aacgtccgcc cgtactacg acgcatggc agtgcttatg aacatgtgca ttatgggaca 120
 tgattttatt tccacccgct gctatcgagt ttgcattcaa tgcatttcat gcattctctt 180
 ctgatggctg ttatgggttg tgcataatc atgggtggca tcttgatttg ttcgggttct 240
 tttcctcttg cgggggttgc ttgtacacgg atatggaagc gcgatgatac cccctatttg 300
 aatagatata acgtgatcaa tgcattcatg aatagaaacc atttgttttt ctttttgggc 360
 atgtacacgt acatactccg taataagtag attatacggc gacctgtgca cgcgctagga 420
 tctgcccggg tagtgactcc gtggccacg ctcgtagatt atacctattt ggggtgtctct 480
 agctcgtgga actgtacagc tgcagactga ggctgtaaag ctgagatagg aaccggcct 540
 ttcgtcggct gatcaattgt gtcactcga ttttcttttg cgatcgtcgc tggctctact 600
 ttgagctgcc tgatcgagta agacggtaag ccacgaggtc tccccattca tcttttctcc 660
 tgcctcttca cttcaacttc tcccacctcc catcccgatc ttcaacatcc ttcttttcat 720
 tacaattctt taacactgag ttttctgggg ggggtttatt tgttgctgag aattgtcctt 780
 tagtttgctg gttcatcgcc atggccactc tctcttctact ccgtcatctc atccaaacac 840
 atccactcat cgacaaccat gtcacaacc tctctctca gtcagcggcc tgcaaatatg 900
 ccaaatatcc ctttgagcag atcatatctg aggcgcaagg agttgctcta gcaaacgccc 960
 cttcaacgct atcctttcac cgcgcggcca gccagctcgc taccctatac caaagctcgt 1020
 catccgactg ggacagcgtc cgcgctgctc gagaccagtc agtccagcgt gactatgagg 1080

gtctaattcg caaatgcttg gagggaacac aagtacttct tcttgacgat cttttaacgg 1140
 aaaatgacgt tgaacttttt gactggcatg atcgcttcac cgcacagcc actaagcgca 1200
 ttgtccgtat cgaagctctg gccgccagtg tctgtcaca gattgtccac ggagggcccg 1260
 ttccccagga ttcttctgac ctctcagctt tccaaacctt ttgggagtcg ttctcgcgga 1320
 acttcagcgc tctgggtctcc gatgccattg cggaccccg tgtggtgggg ttcaagtcgg 1380
 tgatatgtta ccgactggg ttagatgtcc agccaaccga tgaccgtgat acagaacgat 1440
 taatccggtc ctttgctcgt acaatctcgc aagcgccgt ctcaccccc cgggtagagg 1500
 ataagccact gaacgactgg ctggtgcgcc aaacactcaa ttactttaag gcagccaagg 1560
 ttactcaacc aaacaaacct ttgcagctgc atactggttt gggagataac gacatcaatc 1620
 tgctgaaatc caacctgct catctgcaat ctcttattgc gcaataccct gaagtcgact 1680
 ttgttttgct gcattcatct taccatata cacgcgaggc tggatatctg gcctgcgtct 1740
 accctaattg ttatttgat ctggggagg tctttcccat ggtcagccgg gacgcgcagg 1800
 aatcgatctt gagagagagt ctgaaattg tccccagcac tcggttgta tggagtaccg 1860
 atgggcattt tttcccagaa acattttggc tggccaatag acagttccga gatgcgctgg 1920
 aaaaggtccg gccctgcat tctgctgatg aaagtactct gactaatctg gaataggttt 1980
 tcgtggacta tgtccagaat ggtgattata ccattgagca agccatgcag gccgcagcag 2040
 atatcctttt ccacaattca aaccggcttt atgagttaaa tgaacaaccg ccactcgccg 2100
 ctttatcgtc tgggcaccag acggtctccc gtatctcgtc aactgatctg cttgagaagt 2160
 tcattcgaag caaccaggc gtcaaatacg tctggacgca attcattgac tacactgcca 2220
 cagttagagt ccgcatgttc ccagtaatgg agttcgccaa gatcgctccg aagcaacgcc 2280
 ggctcggtat tagtatggc accttctgga tgttgcaaga cgatgaagtt gttggcggct 2340
 cgactacggg ccaattctac cttataccag acctatccac actcagccca aatgttgga 2400
 tcgactccaa gagtgcacc gtgatgacct ggtggaagag cgaacaaggc gagtccctgg 2460
 aggaatgtcc gcgcacgaat ttgctcaaca taaacaaca actcaaagac gagtttggt 2520
 ttcaagctac ctgcggcttt gagattgaag tcgttttctt gaagccaacc accgacct 2580
 caacaggaga ggaagactgg gtccttctg tgaccaacca ttctggtct caaatgactc 2640
 gcgagacgcg ccgcatgctc ccctactcg aagaaatcg cgaaacgctc gcctccatcg 2700

gcatccatct tcaacaattc catgccgagt ccgcccctgg ccaattcgaa ttcattcctcc 2760
 cacctgacaa tcccgtcgct gcagtcgaca cctcatcaa atcccgacaa gtcatagcca 2820
 acattgtcga gaaacacggc ctccgcgcaa cactctatcc acggccttat ccatccgccc 2880
 ccggcacggc gtcccacggc cagttttcca tctccccttc aacaaaagaa gaatcattcc 2940
 tggccggtgt gtttcagcac taccgcccg tactggcatt caccctttcc ggcgacgcaa 3000
 gctacgaccg cgtaaagtcg ggtatttggg ccggaagcga atgggtcacc tggggcaccc 3060
 agaaccgtga ggcgcctatt cgcaagatct caccaggcca ttgggaaatc aagtctcttg 3120
 acggcttggc aaacatgtat ttggccatgg ctgctttcct ggctgcggga tatacgggag 3180
 taaaagaaaa tctcccgctc actatcaagg attgtccatg tcagtttatt gatccatta 3240
 ctctataaaa tagctaacgt tgaacttaca gatgacgcgg catcgctccc agaaagcgaa 3300
 cgcgccgcac tcggcataac tacgaaactc cccaacaccc tcgctaaaag tcttgccgcg 3360
 ttagaatctg acgagattct taggagtctt ctgggcgaga acctggttga agactacatc 3420
 atcgtgaaac gagctgagag caagaaactc agtgccatgg atgaaaaggc gcgcaggaag 3480
 tggcttgttg agaggtattg agtctaactc ttctcctgag cgtattcaca atatttcac 3540
 ggcctttatg aataagataa tatgatgaac actataaact tgactatgct agcacttcat 3600
 gagaggatac caatttgatt gaaaggagca atcttacaag ctcgagcctt gaagcatata 3660
 aacagtacct gtcacggtt tggattcgtc tccaggcagc aggctagtag cgtgagccgt 3720
 tcaaagagtg gagacggaca acctagtact gccatcaat cgtagagta cctgtcttgg 3780
 taatcaggta ctcatcagc gcaacttcct ttccgctctc ctttcataa cccgattcct 3840
 tgattcctcc aaacggcgac tcagccgcag acgagtttcc tgtgttcatg ccgatcatgc 3900
 ccgcttccaa gttctccagc agtcgccaca tacggccaat gttcttcgag aacgcataac 3960
 tagccaggcc catgctggtg tcgttcgcca gcttgacggc ttcttcctca gtctcaaagc 4020
 gatagagagc agcgatcgga gcaaaggact cctcgcgca caccaacatg tccttgggtca 4080
 tgttttttaa gattgtcggc tcgaagaagt aacctgtgt tccttggaca cggctcccgc 4140
 caagaatcac gtctgcgcc agccgtcgcg cgtcttcgac ttggctaata gccttgtcga 4200
 tactgcgcgg ggtcgtgagc ggtccagag tcgtgccttc ttagcacca tggccgatca 4260
 ccaatttggc cgtgcgctcc ttgagcagct gcgcgaattt gtcgtagatt ccagcctgca 4320

cgtaaattccg gtttgcagta atacaagcct gaccagcgtg gcgccatttg agagccatca 4380
 gctgggtccag cgcttgggtca aggtccgcgt cgtcaaacac aaggaatgga caatttccgc 4440
 ccagttccaa tgtgaccttc ttcaaccctg gtgcacagtg agaggcaatc agcttgccaa 4500
 cccgagttga gccagtgaac gtaaccttct tcacgagcgg gtgcttgcaac agcgcttcgc 4560
 ttagcggcgg cgtgttttcc agatccgtcg taagcacatt gaacactccg gcggggaagc 4620
 ctgccttctc cgctaggtgc gctaatacca aggtctgtgag gggagtctcg ggactgggct 4680
 tgacaatcat cgtgcaaccg gcagcgagag ctgcaccggc cttccgtaac accatagcaa 4740
 tagggaaatt ccacggcaca agggcagcag cgacaccgat cggttgcttg acagtgaaga 4800
 cgcgcgggtt aggcgcggca ggcacggcga ttgacccttg tatacgttct gcctcaccgc 4860
 caaaccacca ggtgaaaccg gtcgcgtagt cgatctcgcc ataggattcg gcgattggct 4920
 tgctgtttc atgggtgagg atcttcgcca ggtcggatct ggcctcaccg atgagcgagt 4980
 cccatttcaa cagccactgg gcacgttggc gggggttgac cttcttaaac ttcacaaagg 5040
 cgtcgtgctc gatctggacg gaaaaaacga cgtcttcagc agagtgtgta gggcaacttg 5100
 cccaggggag atcggtagca gggcttaacc cgcattaatc acgaaaatga gcatgaaact 5160
 gtggttcttc agcttaccga cgacttcgaa tcgcgcaccg ctttttgctg taaccgaagc 5220
 gttcccgacg taggaatcaa agtgagcaaa gtcaggggtg tccagctaat acggagcaat 5280
 cagtaccagt agatggctgg ttccggaatga cgtacctcga aaggaagctt atattgctga 5340
 gccatattta gccactotta ctggatggaa ttattcgaag ggagatggta gagacgaagg 5400
 agatggagac gagaagaagt gacgcaggca ggatagttat tgggattgac cccgcaacct 5460
 ctcatcttat cggcacctcg gtctccacgg tgaagtgagt agcgattgga gactctccaa 5520
 ttgatggagt aatgcgaaga tcaaagtagg aagtagtgct aaaatgaaag tgctggctaa 5580
 tacatgtgct aaaagtaaac ggatggctcc gactctgcca gaagctctgc tcgtccttct 5640
 cttgggtgtc ctgtagaagg gcccgcatca acatgcctgc tgttgagatt aactggactg 5700
 gttggcgag ggataccctt atccctcgtc ggcagacccc attcagagaa tgcacgcgt 5760
 gcggcggttc catacatcgg cgtcttttcc gccaccaga gctccaagtc gtccgcattg 5820
 cgcagcggga gccgtgacca ttctgtgacg gcagccgttc gcgacgggcc tgggtgagac 5880
 gagttggcaa tcctgaagga ccgcggcgag gaggtccgaa agatatgaac tacgaactat 5940

aaagagcgcg ttctgttgct gcgagccggc gtgctagggtg tgaacatagc ct 5992

<210> 2529
<211> 1229
<212> DNA
<213> *Aspergillus nidulans*

<400> 2529

gatccgccgc aattaaccct actaaaggga tctcggtcct cataagtctg gccgttggtg 60
gtgtcaatga caccataaac aaccgagggtg gttgcggcgt gagtcctggc gtgctgggca 120
aggttatcac tccgggagaa tttctttcca cattcaccac actcgaatgg cttgtcctga 180
gtgtgcaggg aacggtagtg gcgcttgaga tgttcctgtc ggcggaagcg gcgggagcaa 240
agattgcaga cgaatgtctt ggaagggtcg tctgtcaaag actgcttgcg accgcggcga 300
ttgaccgaga caggagcaga tgttgtctct gagccagacg cgctgaccac cgagttctga 360
cgagcttggc aatctgcgtg atcgcgagag gtgggctcaa ttgcattgtc aatggacatc 420
tgagcctgca ctctgtgaa agcctctgag ccgttctccg acttcctgat ggacttgcg 480
tttccgcgct tcttagatgc catgtcctcc tgactctcac tgctatcaag ctgaatggta 540
ggaagaccag gaagtgccat ttctagatcc tcggactcat ccattccgtg ctcgctgagg 600
aactcatcct catccaatga ataagttcca aggcgctgtc gcttaccgcc gagatagaat 660
gtgctaccgc taggggtgaa gtccaacagg cggttcacia actccatcat gggagccaag 720
atccgtgaag ctgtcaaaag taggcagtgt gctgagcggg tcctcgttgg tagagggtgaa 780
agatggagtg ggattctcat gcacgggcag agtcacggcc tcgctaccga gaaccacctt 840
tggttcctca tcatcacacg acaagaagg caaaggagga agctcagcag gagcgtggtg 900
tgccgactct acggtaagtt cccgaggatc gcagaaagat gtggcgtggt caagctggag 960
tgaagattgt gattggccga acatggaaga aactggggaa ggcgatgggg aaagagacgg 1020
gcatgagctt gccgagagga gatctgagcc ctgacttgag attgaaggat tgtgaatgaa 1080
cactaaagaa attagtactg tccacctctt gactatcggt ctgagcacia tccacatata 1140
acttaccagg tgtcatcgca ggcgagccg agcgtgccca gtcaacgctg gctaggatcc 1200
ctatagttag tcgtattatg cggccggga 1229

<210> 2530
 <211> 1897
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2530

```

atgccaccgt agcgggtgatc agaggatcga cttgctgctc ggcggccatg atcacgacgt   60
attaaggagg tttgcttggtg acacggattt tactgcagga aacgtcgagc agggacgcaa  120
agtcaccgag gtggaagtag atggaagagt ccctgatgca gagggaagta taaggctcgt  180
aaaaagcggg accgactgga gaggcttgctc gctgggtacgg ttgattgtgc aacgagccga  240
gaatggaacc gtagtagcat caacagtga ggtgtgagtac cgcattattgc ccagacttca  300
gccttcacac ggctgacggg aaagtgcgcc aatacaccga tatccaagtc gcagttgcaa  360
caccacagcc accaacgcat gttgtcgaaa ctctgcaggc cattcacgat caagtcggaa  420
agctggttca aagaccgctc ctgcacgcag ctaccccaat agatggacgc aatgccatga  480
tccgcagcca agagactaac atgggaaata tgctggccga tgccgttcga gcattctatg  540
acgcagacat tggattcttt aacagcggcg cagttagaag tgactgcac c ttgggcgcag  600
ccgacccgga cggagagccc ctgctagtca gagatatcat cagtaagcca attcttgctt  660
gcaaccgaca agcactgaca agaatcgcaa gatatctgtc cgttcggaaa ttccgttctc  720
gttaagaaga tgcccggtc gatcatccgg cttgcactcg agaattctgt ctccgacatg  780
catactgacg gccgattttt gcaagtgtca ggattgcgag ttgtggcgag ctggcaccaa  840
cctgaatggt ctcgagttgt agacgtcttt ttccagaggt ctgatggtag cctcgagccg  900
ctggacccgg atcgcacata taccgtcgcg atgccgtcat tcatagcgcg cgggtatgac  960
ggattctctt ggttcgcgca actggagacc ctcgtaggtg aagaggcagc cgtaacagat 1020
gctggcctgc tccttgccat ttccgggcat gaacagtcac ccgatggtga catgcatgct 1080
ataggtatcg agcgagcccg agcggtgacc atagtcggtc agaatccgac cgactctttg 1140
cctatcgtga aacctgttgt agaggataga atcaaattcg tatagagtcg tctagcgtgc 1200
caaatagatc tcgattgctg ccagagaagt ctgagagagt gttgatgcct tgacctcgtt 1260
gacatatagc ctgcgagatt atgatctcag tacctttgtc cttgacgtct ggtgttgcac 1320
ataccactga taattgtcca gattccgagt gcagcagtcg aactatgtga ggtcatcctg 1380
gacctggggt taagccggtg gatgccttga gacctatcta aaaatcttgt ctatcgagc 1440

```

ggagcactgc tgcactggag accgtcctgt ttgttgacag cagccgaggc ctggttatatt 1500
 ggttatcgac gtcctccaac ttgccaaccg cctgcggtac gttgaggatt cgaggaccat 1560
 tcgcaacact atcctggaaa tgagcctgcg aagaatgagc atgccagtga cgcaagatct 1620
 cgccagattg agttgaagat tgacaaacaa acagagagac gatcgccgga taattatcca 1680
 gaaacatgat gctcgacctc ggctaccacc aagtggaccg ccggcttata tgggtctatg 1740
 acccaactgc aacgattccg actggaggat cggttggaac ggcatcgcaa gagaaactca 1800
 gctctctgga gttttcgagg gacctcaaag gcagaaacgc ggattggacg agaattacga 1860
 agacaaggag aggaaagtcg ggaggttgaa gggaaga 1897

<210> 2531
 <211> 1025
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2531

aagggcgcggt caggattata ctgtccgcgg taaggaagga tgtttaagaa cgtccgaaca 60
 agctccagat tctctccagt cacgttagaa acctgaaaga tagggcatat ccgttgagag 120
 acaaactgcg tggcagtgtt gattgtctcc tccatgtcct tcacaaatat agggattttc 180
 cgagctccag gcgacttgag gatcttagtc aactgggaga tagtctcttg caaaatctga 240
 ggggggcaga tatcgatttt ggtgattatg accataaccg gcacgttcag agccagggct 300
 atgccagat gttccttgct cataccaata aggccattgt tggccgcaac cattagaagg 360
 caataattag gattgctgct cagcatgcca aagactgtcg tccgcaggta acgttcgtga 420
 ccggcgaggt cagagaagga gatgacttta gcggaccgtt tgccaatctc ttccaagaa 480
 agcttgccgc cctgcgagct gctcacgac tctccttggc tatcaaagcc cataatctct 540
 agaccgaccg agctggtcct cccgctctca atctcgtgct tgtggcggaa gagattcact 600
 cgtgctttac cacgcccgtc atccaagcct cctttcacga ggacaccgag catggtactc 660
 tttccagcat caacattccc taccactgcc atccgaatct ccgccatttc ctctattgtt 720
 tccgcaggct gccgaatgag aatcttacct cacgaaccct ttatccggta atttgtagtt 780
 tttgcctctt cgggaccgcc aacattgtag gttaggagaa tgccggcaatg tgcggagaga 840
 gttgttgacg cttctcgacg ccggttcaag gctatatcc actgatcgag gctgaaggac 900

atggactctc ccccatcctt aaccccgaga tcgaaaattg tctcccatg gccttcatca 960
 atgccgcttt gcaataactc tggccggggc cttgaggttt tctttaaaat ttgctgtctg 1020
 tacgg 1025

<210> 2532
 <211> 2309
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2532

gatcctttta gacgctcatg catgaaacaa atcggttcatt catatgacgg cgcccatgt 60
 gttcagtcct ctcccagcct cgcaatagct atcttccgat ctgaccccg cgtccctcga 120
 acgcacatgg cttacagcac ttcaccaac cctccctctc gtcgcaactt gcagctctga 180
 caagacggtt cgcgtttatt ccctgggtta ctttcgcctc ctttcgacaa tttctggcgg 240
 ccataagcga agcatccgca cttgtgcctg gaaacctaac gtctcaggcg aaagcgctct 300
 tgcgacggga agcttcgacg caacggtagg catttgaga cgatgggatg actatggaga 360
 ggaggaaacc ttagcgcaag gaaataagaa cacaaaaaac tttggagctg aagaagaccg 420
 cgaagaagac gaagacgacg aatggcggtt tgccgtccta ctgacggac acgacagcga 480
 agtcaaatec gtctcggtgt ctgcatcagg catgcttctt gctacgtgct cacgggacaa 540
 atctatctgg atctgggagg acctcgaaga tggagacaac aatttcgaga ccgtagctgt 600
 gatgcaggag catgagggag acgtcaaag cgttcgcttg caccgcgag aggaatgtct 660
 tgccagtggg agttacgatg atactatccg aatctggcgt gaggatatcg atgactgggg 720
 tcaggtcgcc tgtatcaaag gccacacggg aacgggtctg ggcattgact gggaggatgc 780
 tgagaatgtg cctttccctt caacttcaa tggcgatcc ggacaggagg aagagtggaa 840
 aacgtggcat gctctttcgg ggctcgtct tgtgtcttgc tcgcatgatc aatctgtccg 900
 cgtttggcga cgacagccaa aagcgcaatt gaacaccgct ggagctagct cgataccgag 960
 tattatccgg ccgtccggca cggatgaaac gtgggaggag gatgttgttc tcccgcagtc 1020
 gcatgagctt ccgatatacg ctgtcgcttg gagtcgacga acgggcttgt tagcctctgt 1080
 cggcgctgac ggacgtcttg tggctacga agagcgattt gtttcgtctc atacgaaacc 1140
 tcaggccatg aatactgatg aagtctcgcc gaatcttggc gagggagtat gtgcgccgca 1200

cccatcaacg gaatggagca tcgttgcggt cgtttatggt gcacatggta tttatgagat 1260
 caaccatggt gcgtgggcaa aacgtgccga cagaggctgt gatgggaaca aggaggaaga 1320
 ggtgttaata actaccgagg atgatgggag tatcaaagtg tggacgttga caaggtgacc 1380
 tctgcacccg gtggacgttc cgtgatacag ttatgttgta taataatgtg cttgatgagg 1440
 tatgggaaca cggatataggc aatagagcaa aagcacagat cttacgcaag aggcgggcaa 1500
 ttcataaaat atgtctggtt aaactgtatt ccacgcttat gttgcttgac ctgggcttgt 1560
 atatggcggc gacaaaacaa atcttatcaa acatccaaaa aaaaaagaca agcgaaatta 1620
 cgttacaaga ttattctcgc ttttcgatga agattcttgg gcgcgtggta gatcctgtcg 1680
 atgcgcttcg tcactactgt cttccccgac agcataatct tcccgggtcca ggcctggcga 1740
 gtgtaagtca tccaactcag cctcatcaaa gtcaccggcc tctacgtctg cgccgttact 1800
 atgattgtta tggaaacggc ccatgataga ggttctactt ggggatttaa tggcaattcc 1860
 gctgtagcca ttgtgtcgcc ggcgactgag ccagatgaga aaaccccaga ccagcacacc 1920
 gataataaca acgacaagga cggcttcacc ggactttgag taggcgtttc actcggtttc 1980
 tttaatcttt tgctgctctt cctcttggtg aactgtgctg ttgggctgac cgcccacaaa 2040
 agtttggggc aacggttcgc cattgatgag gaaatccaag gtgcaccgcc gatgctggcg 2100
 atacaacgtg catgaagcgg ccaccagtct tgggtgcgggg aaaaaaccag ggggcctgga 2160
 ctgcattgta aggaaacctg gtaagttctg ctacgtagaa ccggccgtta ttcgacgtca 2220
 gtggtgggag cctaccggg tggtaaagcg acccctgcc ttagtgtata gtgctacca 2280
 ctgatgaata ttttatccct aagagtttt 2309

<210> 2533
 <211> 1744
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2533

ccaggacaat cccgctatat ctcccacgag ccatggtttg atgatgggtg catatacctg 60
 gttttcgcgt aggcgcacgt aactgtcgt gcgaggctag aactcatgcc atgatcgag 120
 gttggcacag ccaggagact gtctgaaact tccgattga gttcgtatat tatggaatta 180
 gtggtccaag catgtataat ggcccaagat tcctatattt ttgogggcct gtcggtcact 240

atccacctg gacccacgtg ggagtaagag gagcaggttt gtaggctctc ttttaagggtta 300
gagtgcgcca cacatactct ttaatagaat gacccacggc gcccgccaac attgagtcac 360
ccaaaagcat atactcagat gagagcaagt agtggtgagt attttagtac gcgctggcta 420
gatgatatcg caaaaagcgt ctgtcctcta ggttccgtat aggtcttgac ctcttgcata 480
gtctcacaag cgccgttaaa ttcatatgag ccagtttatt ctcttctcc cagctagctc 540
ttatctacat caccaactgc aataacacca aaactgggct acttcaaacg gaggcaccat 600
catgccgtct gcaatccacc tccacattt cgtgtcctat agttgaccca tcaagctaca 660
accagacaac ctccaggtccc ctccagcct gcagaagccg gacgggaaga aatgggacgg 720
tctcaaggca atatttcttg aactggatat gggatgccag ccttctctgg ccattcagct 780
aatccagctc ttaatgctct aggagcgcca tagctaccgc ttgttctctt ctaatggcca 840
atataattag gatgctacaa gtatctgctt gattgttcca aaagctcgac ggacaatacc 900
gtttcgcagc cagtttatcc tgtctgatcc atcggaagca tatccgagcc gatcggatgt 960
tatgccgaca gttatctcat attctccagc gctacaaagt aagtgcatta ttttaggttg 1020
tatcattgaa gactgcactc atgataccga actgttcatg cctggggaat actgatgcta 1080
gaggctagat acgaagaggt cgcgggtaga ctacatctat tgttggtccag gtgcttatgc 1140
gggggagtaa cctgtattgg agtaattatt accttccat actagtctta ttaggggtata 1200
ccgtagttca atatgtgtct attgtgataa tgcagggtg aaacggctgt gatagggaac 1260
ttattgaact ggtctaggaa tgtcatcatc ccattttcag atgttgagct tgtacgcaga 1320
tcataacata ctgtagagag gaccttgag gtagactgga ggcacgagcg gagttattga 1380
aggtgcaggt ccatctcaac aaggtctgta tgaggaaaag atatcctagg aatctaacac 1440
agtgcagtgc tccacagctt gatggttact gctatcgca ttgtggtcga atccagaata 1500
attaaagcat ggtggcattt ctgtagggtc ggttgaaaag tatgtaacct tcagtacat 1560
gtcagtagcc aatgtcgttg aggtggcctg aggaccttgc ggattcagcc acatatatta 1620
gacctctgta tcctatccag ccagaaatc caaccatccc ttctttctca gaattaaaca 1680
cacacttggt atagcttcat ataattcata acttattcaa ctacaagcaa attttataag 1740
gtat 1744

<210> 2534
 <211> 844
 <212> DNA
 <213> Aspergillus nidulans

<400> 2534

```

cgggggttca tggccaggag atggatgagt ttaatctatc tagcttagct gcccatttca 60
ctgcagctac ctgaattaat atgctgttct caggaatatg gagcgaaatc ataagtagtt 120
gaaaggtcgc tgggtttgtg aaggagggga atctacgctg aaaaccgcgc agcaaccctg 180
cactgggtca tatcaagtaa aatctaccta ggtcttctct aggcgtgaag taacttgata 240
caggaatgcc gatgtagacg aggagcgag acaaatgcc ctggcagcaa gacggaactt 300
ccagacggga cttttgagga gctctgactc tagcgtgatt acaatatgga tatacccatt 360
ccaataaaga gaaattaatt atcgctttc cgttctctga gtgccgctga atcctcgagt 420
tgggagcata cccaacagct agcgagagca gcataatctg attgtactct actcactaag 480
agacatacat acagctcttg cttgtgttct cgaaagtatc tcagtactta taattagact 540
caagcgacaa gtaaactcgt gttctcggtg tatttatattg gtatctcatc aggggatcca 600
ggcaagctag aagggtccg tccatctgga ttcgcgaaca ttatatacaa agtccttcga 660
ggaaccctta gaatgcaaac ggatgatggt acaagcaaa gtagagtaga cgttcaaggc 720
tgtctatccg gacaatacaa cgcggtgcaa gctgaatcaa atcctgccag agacgctgag 780
aatacgacgg gaacgcaatg catgccatgc aaacgacaga gcaggatgag ccataacgcc 840
gatg 844

```

<210> 2535
 <211> 4401
 <212> DNA
 <213> Aspergillus nidulans

<400> 2535

```

tgagaagctg gacttcggcg ggggtgttga ggcgccaagg cagtgtcatc tttactggat 60
ggacgctctt ctccagtggg gggagaaagc gatacggaag gtcttgaagc gtcggataga 120
gaccgagttt tgggtgaagg gcgcaatgat gggccaaaca agctggcttt ttctcctgca 180
gagtcggtct ggggtgcctga ctgactcaaa tcaggccgtt ccgatttaga ccgctgagac 240
aactgttcgc tgagggtgct cgcgaatgga agcgaagggg cgctatgaga agctgtcgat 300

```

ggagtcacgg atgggtgccat actttcgctc gtcggcctcg tactatgcag tcacgggtgta 360
 attggactcg gtttaggttg tatgcaggat tgcaaaggcg gttgaggtgg agggcaagtc 420
 gcgaaggctc ctaagacttc gaagcgctc ggtaagcgcc gaatcgctc aaaggaaagg 480
 gctgtctcaa cctcaacggg gatcgaagta acagaataaa cgaggctacc ggaatgtcag 540
 cagggaagg ctatgttttc acagacgat tacgcgcaac caacaacgat gggttcgaga 600
 tggtttgacg tctgggtccat agcacattaa accagccccg cactcggaat tacttctttc 660
 tcattggctt taacttgaca atcaaggatt actaattatt acatatgagt tccccaacgg 720
 gaagtacaac tataatgtgc gggcgccacc atgtgggtccc agagatgcga ttggactggg 780
 ggaaggagca ggcaggtgcg ctgattgcta tgcatacaat aatcgattaa ttcatatcat 840
 ttcaattcat taagatatta ccactatgct aggctcattg cattgctgaa aggagcaaca 900
 tagcactccc aatcattatc cgaggaatcg cccaatgacg gggtcagcac attatcacga 960
 acttgccata ccttcacaat cacagctctg gtacgagcta cacttaggac gttgtattct 1020
 gacatggcag ccagtgcgag gaggatcaac ggccgcccgc acacttcac cccgttcgca 1080
 tctttccaga gctcatcggt gagcggatca agttcaacgg cagcaacgaa aacaggccat 1140
 gccaggccta cataggttcc cgcacaaagc atatccgaga caagcctcag tatctttcgg 1200
 acatactcaa ccacgagcgg cgtgggtggc gaggcgtcat tcagtgcgca gtgcagatat 1260
 agtacagcag caagccggtt catttcagca atggcttgaa gggctgcac ctcttcttcc 1320
 acgtcctgga tcaattcttc aagttgtcga catagagctg ccgactttgt tgaaagcgcc 1380
 gcatgatctg aattcgaagc cagttgtcgc cttgtcctac ttagctcggg aatgtctgac 1440
 agtattgaaa ccaattctgg actgcacccc atccaaggat caattttgag ctcatgtgac 1500
 tgccagtgat cgggtacaaa gaggggctgt tggccacaag cggtagcgcc catgatatcc 1560
 tgaaaggcaa aaaaccgttc ggcgaaggta gcaacttctt gctggcgtgg tgttgagca 1620
 gcttgctgcc ttctgaagcg gatgagctcc tttgcgcctt ttaagtgaac aatccagcgc 1680
 tggctgcaat gatcaacaag ttcatagaga catagcagca tcataacaac cagaatctcg 1740
 ggatccgagg tggaacgag cgatccagga gcgggtcaacc tatagcggag acctttcaag 1800
 acttcggatt tgagacgaag tcccagagca cagtacttcg gatcgtctag cgagagggcg 1860
 catgctccta aggcacatat cgcatttgag actgtctcgg atgctgtcgt gctaaatggg 1920

atgattatcg atgcgagtgg tgatggggtg ttggcacttg caattgtccg agggcatatc 1980
cgttgacat aataatcgaa caagtgcct cgaattgatc cagagaactg cgggaggact 2040
gataaagatg gcagcgggtg ggctaactgt atcgtcgata atccgagtcc ataggacgaa 2100
gaagatttca ttcgattcct ccgagtacta acaagagcat gatcatcctc tgtaggcgtg 2160
acctggtacg gctgccgaaa agcatccgtt aaactgttta tgaagttcca agcctccacc 2220
cggggaatta gacaccattc ttgctcgcga aacgaaaaag cgttcgagct ggaaggcgac 2280
ggtgtggata gattttcggc agctttggat ttgctccaaa cccagccct tccaaaagcc 2340
tgcccgcgac tggcaaattc tgactccac ttcagaacca ccttggtcga acaggttagt 2400
cctcgcttct ggcatttggc caagcctggc tttgtgtgc acaacgctct cgacttgcgc 2460
gacactggga gcatctgtcg cgactgccgg tcttctctga acccgtcagg tcgttggcct 2520
tttctctagg cattcaacag aatgtgcagg aatatgcggg ttcattgcag actttgaacg 2580
caggatacct cagcctagac tgatctcggt tgaggaagtt gaagatgctc aggattgcta 2640
atccggtggc gaagagatgg gtgggtcctc caggcctgag gcaccagtgg catcttcagg 2700
ccactgctcg tatctacctc acttagtgct gttgtcttct gctaataatc ctgagatgca 2760
atgagtggga tatgacgcgc tataaagatg ctttgtatgg tagttgcgga aacagatgtt 2820
gcctacgtgg ttgggatctg taagcatgtt ggggttcgtc tgatcaagca tactacatat 2880
aatatgcaga tgagccataa ttcgttatct tcgcgccata attccatata cagttgatat 2940
acatatattc agaataacta tacttcaaaa ttcttagcag tgaacttcgt cttaaagtta 3000
tactgcctca caaaccaagc attccacaac tccactctt gatccgcatg cgcaagttgt 3060
atctaataa tgatcagcat acgataacca ctttagatgt tcaggggtaa taaaaaatg 3120
gaagagagaa cgcacatcaa acctcctcaa aaagctcggc acgagcttat aaatttccat 3180
gagagatata ttctttccaa tgcacgtccg cgcgccagcc ccaaactgca gcatcgtgcc 3240
gttcacgtc ttcaacctct ccgcgtcac gttcaaccac cgatctggaa tgaagctatc 3300
gacatcaggt ccgaagattt ctgcgcct gtgtaacacc catgcactgc acctactat 3360
tgtacctca gggataaaat gcccgcgat atcaataccg gaagcaggaa caacgcgttc 3420
gaggagaga cctgcagctg gatggatagc gaaggcttcc ttgatgcagg cgtcaaggaa 3480
ggggagtttc tgagactcgg accaggtaac taaacctgag gaccggtttt ccactattcc 3540

gtgagccacg gcgttgcca gttcgctcg gagacgcgcc atgtactcgg gattcttgag 3600
 caggtaatag aaaacagcgg cgagactgat agctgtcgtc tcggagccgg caaaggccat 3660
 agagacggcc attgtgagaa cgcgtttctc cgctcatgaag tccgggcggg ctttgccggc 3720
 ttggataaat ttcgtgagca ggtcttgctg ttgctcgcc tctgttctgg tgccattatc 3780
 agccatcaaa cgctcattca tgcgctgtcg cgcaaata gccacagggt gcgagttatc 3840
 cgcaatcccc catctctgca aaacatcata aatcggattc ttccagagcc atttatcaag 3900
 ccagggcatt tgaccgacgg ggcctgcgta gtcaaagatc cgagcgagtg atttcagaat 3960
 cccgtcgatg tcttcgttct tctctataaa accgtgccgt ttgctatacg taatgctgcc 4020
 gatgacgtcg aacgcaaaaa actggagcca gcgtgcaaaa tcgcatgtct tgccagaatt 4080
 agcgaataaa gctgctgttt gatctaaaaa gagctcgact gtttggttga ccattggctc 4140
 gtattgaacg agggaggaca ttgagaaggc gtggttgacg gatcggcgaa gattggcgtg 4200
 gaagctctca tccaaggctg agaaaaggga tggaagaggc tcgccttttg agacagtcac 4260
 ctggacgggg tagaattctg actgggactt gttagcctgg aaggatatag aaaatggctg 4320
 gggaacaga ccttggtaaa tcccttgctc agcccgtaaa tgactttgat agcactcgga 4380
 gacgcaaagg acaatgtgtg g 4401

<210> 2536
 <211> 1761
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2536

ctgtctactg gaaccggtgc caaaaccaga aggccagca ttcgtactcg atcctgcact 60
 cccacttgct gctgcgcttg cagcggcagc ctggctttcc aacctccttc tcaaaccctc 120
 aaaccgggcc tcatttctgc cacttctagc agaaaacact actccttcct cccaacgac 180
 ccagcctgga accctccacc cggaactccc actccccgcc gctagaggca acacctctgc 240
 tctccatgca acgcctacaa tccaaccaat tgcggacgga agaagcatgt atgggaattg 300
 tgacaatgag agctgcgcgg cgattaggta tggtgttgac ttgtcggta gagaaagcgt 360
 tagcggggag aatttgtgcg ctgcgtttcg tggtgggaa gacggcgaaa taggtgtggg 420
 tgtagacgta gacgtagacg ttgagatcgt gtaccggtat gtcgagggta tggaggcgtg 480

gtactgcgcc aacaaggcga atatagtcgc tgttgggccca gagggtagat aatttacttt 540
 gccgaatgag agcggtttca gggcgagtgt tagaaggagt ggagggagga gcgtcgtgta 600
 ggggagtgtt gaaattatga atgtctgttc catcgctacc agtcagccat catctatccc 660
 atttcatatc cattttcaaa tctatccag caaaggaagg atgggtaaca agtatgagaa 720
 cgtacagcaa ctttcgagc accccacccc cgctcaacaa cccggcaatg ataaacgagc 780
 agcgcggcga acagggcctc cgtagagttt gcgaaccggg cagcctgcca taccaggcag 840
 cgccagaact gcccgtaggg aaagagatgg ggggagatgt aaatggaggc gaaatgtttg 900
 atgtcgaaga tggagagcgc gattgaggaa gcgatttgtt agatgagcag ggccttggtg 960
 agaggagtat ttgtgaaacc gctagtttgc attttggaaa gaatggatgg aatgtcctaa 1020
 ccgcgcaagg tggcgccggg ttagctgggt tgttgctagt atatcagtag ttgttgtctt 1080
 aagcaggatg ataattggaga cacgttgcgg agagagcgac tgtgtaagtg caggaggggtt 1140
 gttgttccag agtattcagg gacctcggca tgccgagatc tacaatctta ctactagaac 1200
 aaaagtccac ttcataatat attcttgcac ttgcgcatgt aagtcctcga tgcctaattt 1260
 attgctcaag tattgctagg ttctatattt ttcattcctt cagccaaagc ctctttatac 1320
 cgcatcaagg ctgtgtccaa tgcccgaatc gtcggcccta atagacgttt caccgcttgc 1380
 tcgccacccg gtatactatc cagattgaca cgcagccttt tccctgtagc ctgtaacacc 1440
 tcgcgcgcat gctgcttcac cttttccacc tcaacttgac gctctttctc tgcgtccgtc 1500
 gcaacggcgt tgatacgctc catggcgcga ttgagtgatt ctactagtga cgctacttcg 1560
 ctgcacgggt ctggattgcc ggatagaaat gcctgccaga attgatgcag aaattccgtg 1620
 gtggtcgcgt gcgtaagtgt caggcggctg tacagagctg acgtcagtc atagtgtgtt 1680
 gagtttgacg caacctgtgt ctgggtacgc ctgtccttga tcacgttgag gatttgcggtg 1740
 gaagcgaggt ggcggtaatg c 1761

<210> 2537
 <211> 2012
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2537

ctctatgtga actatgggta tgatgcgctt cgactcggca ggaccgactc taggtcggat 60

tacccttta ctgttccttc aactgccttc ccttcctcca cacctgtgaa tgtccccctc 120
gccagcaccg tgtctacaac tccgcaaag atcccccaag cccattcaa catggctgat 180
ccatcaatat ctttgccata ctcttggtct gccctcctg ctacctcaat gagcttcctc 240
cctccctccc cagtgaagca ggtaaaagct tcggcgctca cagaggggga cgccgcgtca 300
aatacgctt cttctagggc tgctcgaagg gcacaggagc agattgtgca tagcgcaagg 360
cctattgctc ccaagacaga gacactcaag gccacgccg cgaaagtggc agagcataag 420
atgatccgta tatcatcgtc tgacggcact tccaaagagg tcgctgccat tcccaaagcc 480
tcaatccagc gtecacctag gcaaaaaaca tactgcacca tgtgtaacga ccagcccgac 540
ggctttcacg gagaacatga gcttcgtcgt cacattgagc gtgttcattgc cgtcgtacga 600
aaagtctggg tgtgcgttga tatctctcct gacaaaaagt tgcatacctc ttgctacgct 660
tgtcggaccg gataacggtt tggatgggta agcaatgctg ctgctcgctt tcgtcgtacc 720
catctcaatg catgccaacg tggccgcggt gggcgcgga aagacagtga gaaacgtggc 780
ggcaaagggg gtggcactca tccacctatg gacatcttga agcattggat ggtccagaaa 840
gaggagattg ttgttgaaaa tgcacagatg tatcctctcg atcgggacgg actagttgat 900
gatattgtgc ctgttccaac caatccgcta gacgacactt cattcgaatc gctagcctct 960
gaggacttgt cttcacaggg cacggaagca accggcatga acagttacga ttcatttact 1020
tcatttccta cgacgaattc gtatccgtcg ttgagaaca cctgctacct cgattctcaa 1080
cctctagttc ctgaagtaac ctctacgctc tgatgcctct attctaggaa tgttcgatga 1140
tttcccgatc tatattcgca ctttgtgtt accaagtacg tcgtcggagt tgggtgcttat 1200
gccttttcgc ctttaagcat gctttctcct tactttatct ttcattctca ctttttttct 1260
cgtctcataa ttccacaagc ttgtggaact tgttttctta ttcaatttta ttttcacatt 1320
ctcttttttt tttatctatt tacgggcaac tgggtttccga cttttacctc attgggggct 1380
tacaggtcga atcgcgacct cgtaatcccc ctcaaagagg gatacgacat aatgtgtgat 1440
gatgagcagc gaagcagtc acgagactat acatccagaa tatactgatt cggcgagcac 1500
gcctaagaac aacaactcaa ctaaaccag accgcatcaa cgggtgggaaa acaagatgag 1560
ctactaattt tcccaatgca ccactgcagg gactttggta acctccaatc ttactacac 1620
tactatacta gctgcaggca agcttgcct gtaggctaca tctattacta agcgcgcagg 1680

aactgaactg aaactcgggtg agataacgag caagggcagt agcaagccag cagagttggt 1740
 tgacttgatc aacttgagtc ctcatatcg acatgtgcaa tgcgcattca ttgcggcatt 1800
 cctgggtccc aggtgcctag caggaactga cgactgctag ctgctatca tcccctcggt 1860
 tctttgagcc acgcaagcag tcgggctatg ctgctgagca gccagtctga attattttta 1920
 ttatagatca aacatgcgcg tatgtggcgc agttgagctg ggcgtaggac ttgtggactg 1980
 ttgtggctga gacgcgggct gtaaacgttg tc 2012

<210> 2538
 <211> 1082
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2538

aaaggaagcg gtggtattta ccacataaga agattgacac gctgtccagc gtgaatctgt 60
 acggagcggt cttttctggg gcgtccggcg gcaaaggcgt ttatcaagca gggttattaa 120
 cgggagtggt gtgtttacgg gcgagtatgg ctagctatag acccaataag gtaccttctc 180
 ccaatttacc gttaccgccc tactcttgca cgcgacgagg gggaagaaag actaaccgta 240
 catgatgcag cgcgttcctt cagccccata cggtgccctc aaagccggcg ttcgcaacat 300
 gaccacacc cttgcgatgg aatgggcgca gtacgggatc cgagtcaaca gtgtctcgcc 360
 gggccttggt cagactgcta tgacgtattg ggtgccgag cagccggatt gggagcagca 420
 gctgaaatat tacggaggta ttccgcgcct ggcgaggtg caggagttag gaggtgcgta 480
 tgtgtacctg cttagtgatg cagcaagtta tacgacgagt attgatatcc cggtaaattg 540
 ggtgattgga agtaagttct ctaatggaga gagtgcgcgt gcggtgctga tatttttgta 600
 gtttggtaaa gatggcccga tagggttcgc ggaataccgt cagtggctct agctgtgttg 660
 gttgttgcca tgatggactt aatattgtgt ttgctcgatt agtggttgaa caattgccaa 720
 agctaaatag attcaatgtc aaaattgatc tttccaagcc cccgctgcca ctgactgacc 780
 tatatgggca ttgggatgga ctcccatcaa acgaggagct aaagtactca gttcgatgga 840
 cacagagtga gattaccacc catccaatgg cgtcagcctc gctacgacct catcaacagg 900
 cgagattgtc gcagtccttc taactgcaag cttcttcccc ggatctgcca gctccatctc 960
 gaacctcccc accattgcag caaccaggca agccaactcc gcctttgcaa accctgtcc 1020

aatacagcta cgtgggtccat gcagaaaagt catcagggcg tagttctacc gactccagcg 1080
ga 1082

<210> 2539
<211> 1689
<212> DNA
<213> Aspergillus nidulans
<400> 2539

ggcagggcctt tcatagtaaa ggtactcgcg tacgttaaag ctttcacaga aaacctggat 60
tgtatgatca cttgaaatca ttcttcagat aaatacagta gtactcgctt tgacttcgta 120
ggctctatttg acttcgctgt ctgctggaat ataccgttga ctctatactc accgctacta 180
cacagacgtg cgatgcctgc gtagaccagg aaagcaggtt tgagtgggag tccaggcgaa 240
gggaaagcag taactggtat cgtaggattc ggggcgagtt gttctagaca atgacacagc 300
aacgttggtac agcctatggc ctcaatgccc ccaacgccc tttcaccgag cctgcctcac 360
tgcttgatac tagaacattg actacatgat actcagagca tcggtattta gattctgacg 420
atgttttaag acgttcagga tacacctacg tacatctacc agtagctggg catacagcac 480
catggagact tttaatcaag acgacatccg cctactggcg aaatgccaaa gataatcaag 540
cgggagagga gagtaggtcc tgccacttac ggaatgcatt gtatgggtcg tagatcttct 600
tcagctgctg cagtcgaggc aggttgggtc caaagaggta cctggcagcg aaatcggtcc 660
ctaaccggga gagaagtttt agcaatctat gctatgccat gtcaactgtaa tataagcaaa 720
gtgaccagga ccggcctccc actcacctgc ataatttggg tacgaggcca cacctccacc 780
agcaacctgg gccagttatt gcgagttctg gatcttggcc agcgtagcgt gtcggtatcg 840
atcaatgaag acgtcgaggc gcggtcctg ccagcacagc agcagaccga cgttgtagag 900
gtggtctcga ttcgcgcacg cagtcgcttc caccgggacg ctcatcagtt tggagaaagg 960
cagcagctcg atggcgagca cgctgtcccc catctgtgga aactcctgca tgacctggtc 1020
aaagtcgcgc cagagcacgg ggataaggtc cttgtctggt ggggaagcgca gcttggtgcc 1080
accgccgctc tttcgactgc ggcgacggtc gaaccggacg ttggcctgac gcgccagttg 1140
ccagtagggc atcatgcctg tgtggttgat gaccgggtcc agggcgagca ggggcgcaaa 1200
gaaggctcgc gcccgcttct ggcacccggt gtagaagagc acggccatga tcaccgattc 1260

gtctgcagac tttggcgcg ccctgaaccc aaagaagagg ccgctgtcct cgtcctgctg 1320
ctcgtggaac cagttggcga agtcgatgac cttgaacagc ttgctggcct tgaagtagag 1380
cagcccccca aacacctggt ccggcagcct atgtgcccgg aactccagct cggtcaccgc 1440
gccaaatgcc tggcctgcac cgcggatcgc ccagaagagg tctcgatggg cctcgtccga 1500
tgcttcgagg acgctgccgt tagcgagcac caccgttgcg cgcagcagac tgtcgacgat 1560
cagcccgat cgcctgtga gccagccgta ccctcccccc agcgtcgagc cgctacacc 1620
cgtctggctg tgtcgcccc accacggcga cccgtaggcg cagtcgccct gttgacgtcg 1680
tcccagcgc 1689

<210> 2540
<211> 3137
<212> DNA
<213> *Aspergillus nidulans*

<400> 2540

gccaggcacc gtgaagctcc cacacagctc ccaatccatg cgcctgacac aatgccaaact 60
tcttcttaag tgtgatctga agtcgtgccg gcacgaccgt gggatatatg gcaaggtata 120
gatcggcgaa accggacatt gctattcatc cgtcgcgatg agcgaatggg acgaatgacc 180
ttagctaagc cgtgacttac ccctgtgaa tatagcgtat cccaccagga tcctgttcgg 240
acggcacggt cctgccccctc cggcgacgag ctgtggtttc cacatggcct ctgggtgggtc 300
acacatgggt aagaggacga caatgcaa atcgacgatg acaaagacca aagccgtcag 360
cacccacagc cagatccgat ggaatctgcc ggggttcacg acgcgggtta gaagggcaga 420
gatggcgagt ttcggcattg tgaacgagag gatcccgaag gcgaaatcga tatagttaat 480
cagcagaact cttgtcaaca gatccgtccc accctctgct gtgatggccg gagtatgctt 540
gccgaatccg aaggcaacat tgacagtagt tattacagt tagctgggtga ccatgatctg 600
tttcattagc cgctactat atcactgacg agggcgagcg gtggagccta ccattgagac 660
tgtgataata tagtcatcaa gccgatatt tcgcagccat cgcgcccgtg tgtacagtcg 720
cgctgacacc ataatcacgc tgacggcgaa gaaggccag aagacgcga ggatcatggg 780
tcctttgggtc tgggtgagat tcaccaagtc cattgcgtcg aaactgctcg gcagcccgtg 840
aagatcgacg aatgcaccca gccagctcaa cccttctcgg ctaccacctt tatgggcagc 900

ctgaccgcat gatcaggaga ggtcagacaa ttagttaccc cgggtgtctcg gtggattggc 960
 gtcgccacgg cttctcgac tagaaaagga ccgttccaat gtgatttaat cgaggcgcca 1020
 atcatcccta atggtgtcac aacacgaaat ttaatcagaa actccgcga ctggtgtggt 1080
 aacgcggtgg accataacag tggagacatc cacttcaacg atcgtcctct cccccggac 1140
 gggccgaaag gatcaggacc ccgtccatc taatcgtttt agtgtctcac tagaacaacc 1200
 cactcggcga gacggactgt caacatctag agtggactgc tgggctagac tgccccgcgc 1260
 gtcgagtaaa gccgtgggac tctcgtctag ccggtttat gtgttccttg tcaggggctc 1320
 ctgacctctc cgcaactgc aactctactg tctcctctgc gaatctctca aacagtacag 1380
 tcatattcgt ctagcttgca ggatcactgt caagatgcct cacaccgaaa ataccacgaa 1440
 tgcgtgtgcc aatggccatg gcaatgggta caacgagaac ggcataacgg tcaatgttga 1500
 agaactcgcg gtgtcaccta acctcccaga ccaggteccc ggactgctcg acaagattgc 1560
 tgcgttcagt aagcagtatc ttggggcaga gcctcaggcc aggttgaaat tgctcgaaac 1620
 agccaggta ctggtgtacg ctcttgagac tccccgggag gccattatcc gccactgctg 1680
 ggcagaggta cgtgtcgcgc tgatcgagat ccagttgctg ctatatatct atctttctgg 1740
 aggacgtgct aagagatatg ccagtcaacc agttacgccg cgctcgaaac agctgttgct 1800
 cttaacctct ttaccgcgtt gggaacacac gagtccaaaa ccgtcgcgga gttggcagaa 1860
 gcaacgggcg cagagccagc actgctgagt cagttagaga ctggtccgta tgtgatacga 1920
 ctgtgccatc gctgatcatc ataatccgta tgcaggctgt ctgatgaaac atctcgtctc 1980
 catgggcgtg atcaccgaga ccgatgcga tgagtaccgc ccgactagtt tctccaaggt 2040
 cctgacagtg gaaaagtaca gtgatgcctt cccactcatg tatgcgacgg ccgaatccag 2100
 gagcgagtga attctgcagg ctgatcatgc ggcaggacat cgcgattcac catgggtatc 2160
 ctgcctctcc cagccttctt cgagaagacc aagtaccgca acccgacgag cgcgacagat 2220
 acagcattcc agctgggata caatacagac aagggtctct tcggtcttct ccagcaggaa 2280
 cccatcacgg caaagcgttt caacaatcac atgggagtct atgcgcaagg ccgcgctcgc 2340
 tggatggatc ccggcttcta tcccgtcga gagcggctca tcgacggtgt tgcaatcaat 2400
 caagaggatg tactcctggt cgatgtaggg ggcagctttg ggcacgatct acttgacttc 2460
 cgccgaaagt ggccggacat tcctggccgc ctctgtctcc aggacctccc ggaggtcata 2520

tcagccgtca aggacctgca tccctcgatc gatatcacag cccacgactt cttcacgaa 2580
cagccggtga aggcagctcg ggcctattat ctgcactctg tcctacatga ttggcccgac 2640
gacctctgca gcaagatcct cgcgaaatctt gcggcgccca tgaaacccag gtacagcaaa 2700
ctgctggtga atgaaaatgt gatccccgac aagggcgctg actgggagac caccagcctg 2760
gatctgatca tgatgcagct gggctctggg gagcgaactg agaggcattg gcgttcctg 2820
ctcgagtcag ccgggctgcg gattgtcggc ttttggactg cccacgcag cgtagagtcg 2880
ttgattgaat gtgagctggc ttgaagccag gtgatgatcc ttagacaggt ggtgtatcaa 2940
taagaatggc aattattggc tcattattca actagaacct ctccgcctac actttaccct 3000
ttctcccttt atcccgcgct tgtagcattc ggacaagcaa aggcgagtc atggcttttc 3060
ctcagtatag tcccttttac gtataatgta ttcagaataa tggatgaata tcgggagggg 3120
aatatttga ggaat 3137

<210> 2541
<211> 2287
<212> DNA
<213> *Aspergillus nidulans*
<400> 2541

gctgaagttg gcgcgtctaa ttatagccga cacaacgact tctggttcac cgttgaagga 60
tgctctcct gagtcgtaca acagtcagac ttatgactcc tgtcttgact agatctccaa 120
gtctagtcca cccaaggctc acccaaggct agtccagatg ggcgcatttg gagattttgg 180
ctcatagcat atccgcgggg cgaattcaga cggtaacccg tagcatcccc tctttacaag 240
gaaaactata tccaatagtc cagtacatca cttgcagtaa ccaccagcaa ccatgcctac 300
ggtgcctcgg cacctatctt ggcgcgagc acgatatcgg catagcaggc aggcatacgc 360
cattgcggag tcggcgtaaa cacatgaccg gattcagctg cgcaatagga ctattactgc 420
tgctcggaa ccctcatgcg tggtttcggc tatcaaaacc gaacaaacag acacattaga 480
ataccatcag tctatccacc agtccactca gagtactttg gagtagtctg acagtctgac 540
agtctgcaat ctgactgcag tctgcgggcg tcacggagcg ccttaatcgg gaagagatcc 600
ccctgcgagt gggctggctg ctgtggtcgg actattgaat ttgaaataat acagattact 660
ggatccacta tctatggtca gtccctcca ctactagcct gggctggcga tcagcagggg 720

ctgcgaggac ctccattggc tggtaacgag ttcatactac gtgggaagga tggatgatga 780
 tctgtttctc tttcttggtt ctcatctcgc gttctcgatc aagagattcg agagtgttaag 840
 tgcaagctca gctggagctc gaacccttga actaacccct tttctcgggt tggtcctgtt 900
 catgtgctga gtgagagatt gggacttctc caggctcggc agcagggatt ctaagtgtta 960
 cagtaaactc cgggtcgtt gccgtatgca gctcgggtctt caacgggtacg gtggctcaat 1020
 tttggtaaac aggggtacgt accttgctgt gtcgctggc tgggcacacg gcacacgtgt 1080
 ttgagtacgt cgaccgcgg tggatatgtag agttgtacca cgaagtttgg caagccccga 1140
 caaccgggtt gaaactggga gggggcagtc tagaaaaggt tcaagtcgaa tgaagaaatt 1200
 actctgatta gacagccagc ggaaaaaagc aattatcgat tggtagcgtt tcatgctggt 1260
 cttctatctt tgggtgcaagt ctgcaggaga gcctggagag cgaagagcaa atcagccacc 1320
 gtcaggctctg acaaactga agccattctt gtttcggtag gctaaactct acagtgtacg 1380
 gagtatagac ttttggtattg gtgcaacgaa accagttcat cccgctctc tctgaaacgc 1440
 gcgctgtgta tccatggata cgctccacga catcctggg aactactgtg ggcaactctg 1500
 agcaagtctg caccaaaccg tgcccgctc tcagggacca cggctcctgg acgccgattg 1560
 tctaggagg gtcaccactt ggactacaac tctcgcactg caattctgat ctccagaacc 1620
 gtcctggcg acgtagtcag agtacgggtc agtcgggaga ctacaggaca ggattcaggc 1680
 acgcagcaca acctacgcct ctaaggggtga agatcgctat ccaccggcta gcctattgat 1740
 agatcagcca atgtggtttc tgatctgggtg ttggctgcaa agcctttgca accgggtcat 1800
 cggagtctga tgcacctta aaacatgaca tccactatgt cagtcaaaaa tcatcgggtg 1860
 ggcatacccc ttgcctacct aggcagtcgg tatgccgtgc agcagcatcc tgtacactgg 1920
 atctggatat tgtaatgggc gaatctggta aagtattgga cgtgggttaga atgtgatggg 1980
 tgtgcaatta ccgagaacgt cagaagtttt gccaaaccgc cagagagtgg gctgagtgtt 2040
 cagtgcacgg gcggatcggg ttcgatttta aattgcatat ttcgtctcga cccgaagatt 2100
 aatcttcccc ctccagtc cagtgattg tcacgtatta ttattatcgt taaaagcgt 2160
 tgcgttgccg ctggtgctgt cttctggcat ttcacctatt ttccctcgca tatgcacctt 2220
 actggtacct ggccagcctc ccacctcgtc actcttttat gtctcgtcac tcaccaata 2280
 gcattga 2287

<210> 2542
 <211> 2560
 <212> DNA
 <213> Aspergillus nidulans

<400> 2542

```

gcaactgatac gacgatcccc aggtcttcag gaacgttgtg acagactacc atgccgatcc 60
tactggagca tccgattcca ctgccgccat ccaggccgcc ataaacgacg gcaatcgggtg 120
cgggtgcaagg tgcaatgggt cgaccggaaa aaacgccatt gtatacttcc ctccagggac 180
atacctgggt tccagcacca tcgaagtact atttgcaaca caaatcatag gcgatgcaag 240
ttttaaccgc atcccagtat ttgttccccg atgtgactaa catacttggc tcaggcaaac 300
aattggccga ccattaaggc agcaagcagt ttcgttgggt ttggtgttct ctctactaac 360
cagtatgtcg gtggtaccgg gctgatggc ggggatgggc agtactatgt caacaccgcg 420
cgattctaca gccagattcg caacctccgc atcgatatta ccgccaccgc tcgagacgcc 480
tacgtctgtg ctattcacta ccaaatagca caagcaacca gtctgcagga cgttgaactg 540
attgccacaa caggggaccac acagcaagga atttgtaggt tttcctttgg atatatcaga 600
aatattactg acgtcagcga agtttctgag aatggcagtg gtggtataat gtccgatgtt 660
acgtttcggg gtggttaactt cggtttctgt gagttactaa cttcggagca aattcaatct 720
aaatatgctt tggctaacaa agacagacgg cgggaaccag cagtttagtg cccatcgaat 780
gacctttatc ggttgtgcaa ccgctgtgca gattatatgg gactggacct ggggtctggaa 840
atcacttgat attcagggcg ccgaagttgg gcttcgtctg gtcagcaacg acggcagtg 900
taatgttggg tcagtcgct tgatcgattc caaactcacc agtgtgaaca ctgctatcat 960
catagcccct gcgtcttcaa ctccagggac cggtagact ggggttggtc tagataatac 1020
cagaatcgac ggccccattg tggataccgc tggtaagggt tatttaggag caggctacta 1080
tgataactgg gtgcttgccc ctacatacag gggtagacc cgaacctggc cttcagcgcc 1140
cttctcatcg tatccgcggg agcagtcact acttggaat agggttgatg gcttcaacaa 1200
tgccgccgat tttagcgca aaaaaatca atatgcggat aggcctgtcg gagattttgt 1260
ccagctcaag tcactagggt ccagagggtga gaacattttc gttgcgcat tagtcggcta 1320
gctaaccag ctcaggggac ggagttactg atgatactgc cgccgtccaa cgggcgttta 1380

```

acgagcacgg gagcggaac aagattatct tcgtggattc tggcacgtac atcctgactg 1440
 acacgggtggg ggtccctaaa gatgccaaaa tccatgggga agcatgggtca caattcgctg 1500
 cttctggcag cgcattctct gatgcaaagt acgtagtagc taccactcgc cgataggctt 1560
 tgctaattgct gcgctcttag taaccctcgt gtcattgctc agatcggaac cagggcagat 1620
 gttggatccg ttaagctaca atacttgata gtggcatcaa aagcaggcac agctggggcg 1680
 gtctgatgc agtggaatgt caaggcagct agccctgggt aggtcgccct ctgggggtatg 1740
 ttgagtcaga cctttggcat tctaaaggcg tatacttaca gatgtctctt atcatagacg 1800
 tccatgcccg gattgggtggc gctattggga cggccttgac gcagacagaa tgtccaccac 1860
 tgactactgg cactaagccg acctcctgtc aggcagcaag cctcatgctg catctaacac 1920
 cggaggcttc aggtatattt gaaaatatgt ggctttgggt agctgatcat ttgatagagt 1980
 aggttcattt tccattgccg tatctttcag gtggctctgg atttattttt tgctcgattt 2040
 ggatcaagta ctaaaactca gtcagtgac ctcatctga atgatgctta caatgatatg 2100
 gtttggtctc cgctaggaac ccattaatta gtattgtttt gactgacgag attgcagcca 2160
 caattgagtg tctacgttgc tcgtggaatg ttgatcgaaa gtacctctgc tacttggtta 2220
 tatggcacat cctcggaaca ctgtgtcttc tatcagtaca atttccacca tgcacagaat 2280
 atcttcacta cagtgatcca gacagagcca ccctactacc aacctaatac taggccacct 2340
 gcacctttca acaatcaagt cgggaaatac agttcagatc cagcctataa ctgtaatgat 2400
 gcaaatttta atggctgcca cgaggcctgg gcagtcatca tcacagagag tcaaaatatc 2460
 catatcggca gcgcgggcac ctactcctgg tttagtgc atactcaaga ctgcatcgac 2520
 cgccattctt gccagcaagc gttgtggcgt cttagaaata 2560

<210> 2543
 <211> 901
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2543

gcccttacat tgtggccccc gagccaggct acgacttttc ggtcttgatc gacttgaaga 60
 gccttcccga tgatcataca gcgcgagagg acctcatcac acgactagct ttgctgaagc 120
 gcaacgcaat ggccgctccg ttcgagaagg cgttcagatg gttcgcgcag ctggcgagg 180

aagcttcaaa gtacacttcg gaggctgcgc cagcgggtgt tgcggaggga gtcgaagtca 240
tggcgattca ttatcgggaa gaagaggcaa tttatatcaa ggctagtcat gatcgagtga 300
ctgtgatctt tagcacggtc ttagaggagg agacagaccg tattttcggc aaggtcttcc 360
tacaagagtt cgtcgatgcc cgacgacgtg tagcgacctt gcaaaatgcg cctcaagtcc 420
ttttccgcaa cgacctccg ctcgaaactgg ctggcgttcc tggctctacag gacgctgggtg 480
acggcaagat cagttacatc acatttggtg tgagctctct caacgtctga aattgtcccc 540
atgactgact ggagacagtt ctcttccctc gtcatttaac accgcagcga cgtcaagaaa 600
atatctcaca catccagacc ttccgcgact atttccacta ccacatcaaa gcatctaagg 660
tgaaatacct gctcttacat aaatagcatc ttgctgatgg tctgataaag gcatacatcc 720
aactcgaat gcgcaagcga actgccgact ttctccaggg tacgttttgg ttcaatttta 780
gttgccctgtg tttcaactaa ccaaagatag tctcaaccg agcaagacct gagaacgagg 840
agcgagaaaag gaagacggcg agcggacgca ctttccgagt tcagggatag gaatatactg 900
g 901

<210> 2544
<211> 1896
<212> DNA
<213> *Aspergillus nidulans*

<400> 2544

gttggcttat ttacgacggc ccgcatgtc agaccaagat gaatcgcgta gatctccagg 60
catgaagtaa ttttggtcgg ctgaggcacc aggaagaggt ggaactggcg ggacgagggg 120
ggtgtctggt ggggatcggg tcgttacgcc aggaatataa gcgatttgga tgacatttga 180
ggcgcgagtc aagacagtcg atgcaatgga gtgggtagat ttctctgatt gtgcagcgct 240
ggaagccggg gcccgagcgg cgtacgagct ggctttttcc gattcttctg ctcgctgctg 300
gttgcgcttc ttacgaatga caaaccacca gatgaggaag acgatgattc ctaccgccgc 360
aagtcctccg ataactccac ccgctatagc gccgcggtg gttcctccac caccgacga 420
actgtcctct gaatctgacg agctgctagt ggatgttttg acacattgta tagttgcaca 480
ttcgggtgcag gattgggagg tcatcacaca tttcgtaccc gacgggcagt cgcataaggg 540
cgatttttgc ggacattgtt tacactcggc gcgagcgaac aaagctgcgt tatgttagtt 600

tcgcttgtag taagcggttg atggacaatc agtacgcacc gtgcggggag agtgggtcga 660
 gattgtgagg cgacatgttt gaatgttata aacagagatg gatgaagaac aaaagcaatt 720
 gtcgtgacaa ggataaggct tcgatgggta tgagataaac aagttaaagg ataaaagagc 780
 ggctgccgat caacggcgta gagagcgtga tcttagtggt ataaacgagt gtgataatac 840
 tccagacgtc aagtcgtgag ttataatcgg ttcatagaagc agtcaatgtt cagtggcagg 900
 aatgagcgt atatctcgag ggctggcaga ctagagcagg agactataag cagcgatagt 960
 catagtgcgg cgtctattgg atgcgggata ttcaatatat cgagattcga ggccggaccc 1020
 tcccacttaa agcgttttgt tgcgtgatac ggccttgagg atcgccgtca agaggttgac 1080
 gtcgtggaca cgcgttacgg tagttaagta cgagcgcaag ttatggatca ggggaaatag 1140
 agcggcctat gaaaaataac ccccttgat gcgaagaatg gaggacgaag aaattgagca 1200
 agtcggaggg ttggaaggga gaaatgaagg aaagaataat ggcaataata tgaggcagag 1260
 aaggaggtga aagagaaaag gtccagtgtc tttcaactgg ggggttgagg gttgggtgga 1320
 gttgagagga gatagtaatc aaaggcacct ggcacagccc aaaggttgcg cattatgccc 1380
 acccacttcg actatcgcca cggacgctcc acaaacgtat cacaaatgta ctctgagtat 1440
 gtacttacat ttccaacgaa tatgtcgtga tttccttgag tttatcttct acactaagta 1500
 ttgaagctga gaactggaag ctgagaaccg tccttgacag aattcaaagt gctacaaaat 1560
 tcattgtcaa ctggggagag aaaccttgaa ccgtacgaag ccaacttgaa atagtataga 1620
 gccaacactg acaatgattt tcccctagct tctctatagt gaggttcaatg tgctacaaca 1680
 tttctagcat gagcgagaga cgatcacaca acgcaatagc catttcgccc cgtccaggca 1740
 aatccaggcc cctagcatga tgtttcgcca gcccggtgtc tcatccgtct gttgtcctta 1800
 ctgattccgg ctgggaaagc cgtgtgcgag aagacatcga ggccgtgtcc gaaggctggt 1860
 tcaagtgggt ctggaccatc ccacgttcct ccggca 1896

<210> 2545
 <211> 1605
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2545

aaaaccggga atgaaattgg gacataggcc catggcgtga acccctagac cttaaaaaaa 60

ccctttggga agaaaccaat gggtttaaataaaaaagtggc agggagattt aattagagga 120
gacgttgcca acccatagaa cgtcagccct ttctaggaag ggaatacctt ttataggcgg 180
gaagcaaagt aaagcacccc ttattgcca aaccacaaat gggcccggcc aaacggccac 240
gggggttaaac gccacagtga aggtctcttc aggattcatc cccactggcc ttggcctgta 300
agggcgttag tggattgcgt actaaccctt tcgggattta cggggtcgaa aatccctgga 360
aacacattga tgatccgatc gatccaccat gacatcgtga gagcaaggtt tacgctggaa 420
gtcgggtgac atcacccact gtaggggtact ccggagtata accagcagcc cgaatattgg 480
aatccatcaa agcctaatac tttaatttcc tggagcaaaa ccgttaatca aacaatcatt 540
attatgtgca gcaagccttg atagggctgt aggcagccaa atttcgggtc caaathtagg 600
agcaaaaaag tgggctaagc ttccaataag ctttgcaggt ggggctcgtt cgctgaattt 660
tgggggaata ttggacacca aactgccaaa ctgccaagtt cagtgtcagc aatttcaaga 720
ataacgaagc tgtttcgtga ggggtagtcc agtactaaaa ctaaacaaca gtagatttgc 780
agccgcgatt gtggatcaag ctacggggta aaattaccat tggctcctgtc aaaacgtcga 840
gtctgctaatacccgaaaa aacccgagat tgggggagcc aagccatcta ggcagaacat 900
tcttttgatc ttctttgccc tcagcagctg gacttggtga ttagtgatg aagatctgag 960
gcttagttgt ggatacaaag cgcggggctc caattgctta tagaaaactg ctaataatag 1020
aattaatatg tacaataggc tgattggtct tgttcatcaa ccgtctcctt acgcctttga 1080
catcaaaaat ctgcggagtc ctcaaccag ctctcacta gcatgctctt ttgaccctg 1140
tgactgcctg actcggctctt acaactgaag gggtatcctt caccattagc cggctctatgg 1200
atcgggtccg tctacatacg ttagtgatg agcggccagt tcacggcatc tttttttttt 1260
ttttggacca acgtaactct ttgttagggg caaacgggcg ttcattgtac cagggttgt 1320
tgaggacact gggcacatgc aattccatt cctcccaag agtccgactc tcaggcggat 1380
ggctgtccag tgtcatgaag ggtaagggcg taataggaat gtatcttgaa gctaccgtca 1440
gcagcgtttg gtgttacagc cccttatcat accgtccccg gtaatgggtga gattgaaaat 1500
agaggctgtc tgttcccagc ccctagccca ctggcatgca agaaagatag tacccttgga 1560
tgtcactggt cttgttattc cactcacgca aactggcttg agtct 1605

<210> 2546
 <211> 2311
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2546

gactataaat tgaagggagg ggcttggcta atttattgag gtcccaataa ccagtaatca 60
 ccaagattat tcgaatcgta ggttgagttt cgagggcata atcaccgatc ttttgcctct 120
 tcgacagggt cccccggctt cgtttcgttg ctgtgagggc cagatacgcc agtggttgcg 180
 gccacggtaa gactgaagaa ctccagctat cgtattaata aagtatttgt ccaagccgag 240
 gaacgtgacg ataaggtgag gaatgtaggc aatcaggtga aacagtcatg tcataggctt 300
 ggtattgtcc gaataatgct gtgcagtcac attcgtgaat ccagcacctt caagcatacg 360
 ctggaatacc cctgggtgcg agaaaatggt tgtcgggatc gtagcgaatc cgctgatctt 420
 gcgcatagac tgtcccatca catcttggtt ttttcgtcca gtcattgggc atactcaaac 480
 aatgatagac gacctcctgg ttttagggta cgggaagtcc ctgctaggac agcctcaggc 540
 tccgttgcta cgaaattttc catagtgtag atgccggcct gggaatttct agatggtgat 600
 aatccattct ctgcacagag attcgacctt ggaaagacct gatcgagagg tatttcgcct 660
 tgctttgagt aggtgatgct cgacaatgcc aataccctca actctaaggc catgcttgct 720
 cgctaattga aaagcaacgt ggccaatgcc acatccagca tcaataacat aagagccagg 780
 tctaaggctt aacgatgctg ctaacttacc ttccatattt cgcaaagcct tgcttagtgg 840
 aaccaccagg tgtcattttt catagtaacc aaaatgtcgt gtcccattta gaagcagccg 900
 gtaccaatc ttgattcaag gctgttatag taagtcagaa tgtgggggtg ttgttgatca 960
 atggttctcg gtcgaattcc agagccatga cgtgattgag ttaagaatac gtgagtataa 1020
 tcacaatgca gcgaacgagc agggcaggta aatgattcc gaaggagtgt tgaggacaaa 1080
 tagcttagaa taggtattcc aatatcttta tcttgtagtc tttgctgaat tttcctcaat 1140
 atgatattat ttgcaggaat ctctctagc ttgttctctt gcttgctaca tatttaagac 1200
 cttcgcgagc tagtactcta aaacccggtt ggtagtcgag cctgattttt agtaattcaa 1260
 catcttggtg aagtcaatat agattgaaga gaaagctata gcttcatatg agaaagagtt 1320
 gatagagacc aggtttataa ctatgaagca ttagactaga cataattacc agcattaaac 1380
 gcagtgatat aaaagatgtc tgattcttcc agtctagctc tattgggcgg tttaaatgca 1440

aagaaataat aagcaacctg gtctaataca gcagttggaa gagatataac tttggggccat 1500
gaaaaaggcg gaaatctctg cacaagcatc ggctagccag agcttgccagt tccaatatct 1560
gaaataggaa acttccctta tacgactagc tgtcacatac ggtcgacata ttcctactaa 1620
gatccctata atgtctgaat tgggtctgtc ggcgtcaccc gacactgata actgatcgaa 1680
aaagataaat tttctcaata aagctcatgc tctactgaact actcgatatgt ctttgagacc 1740
agaatataat tgggtcaatct tgccctgccg cataaggaag agaattagta gtaagccgta 1800
atccgcatgg aacaaagagt gcaataatat gaagaaaggt ggtggtagcc attgactgcg 1860
caatggcgcc caggcgtcgg ccatacaccg ctagctcgtc cagcggaaat accaaaagct 1920
cccacttcgg tcctggctct accagtcgcc ctaccatgga acaggcctcg actcgctctc 1980
tactatggct aaatgagctg cagctgggtga atcctgtgcc attcgcgcca atgagctgcg 2040
aaagctaaaa cctgggtgagt taaaaaagcc acgctaattg ctgacaggaa gcccaacccc 2100
gggctaaagc ctgagctaag gatccgtact gacaagtgag aacttataaa tatcccacat 2160
tcgactcga tcagcattcc atcttaccat tttccagaca cagtctgca gaaatgtccc 2220
taataaactt cagattccag acgaataccg cgatcagctc gaacgaacag agcccggtgga 2280
aacaaaacca acgagcagat tatctcctcc c 2311

<210> 2547
<211> 1236
<212> DNA
<213> *Aspergillus nidulans*
<400> 2547

aagagtctag cctgtcttaa gatccttgtc ggcatttgtc ccatatgcac ttttttggtt 60
cctagctcga gcatagccat agcgcttgct cgattcgaag cgtttgtgcg catccggcag 120
cggcgccctt gggagggggc gtacccaacg caaacgggtt cattttctgg gtaaagtgag 180
atgatctcag agaggtgagg ggccgacggg aactgcaa atgaaaatgt atacggcatg 240
gttgctgtga cacagaacaa agatgagcga atgtggctgg atcaaccata ttcaggagaa 300
tccagggccg tatatatacc tttgggcagt tgggtcagat tcgaactgaa ttcattgtctt 360
cgcatagggc taagtatgag aatggctata cccgctccat gattccgtgg ctgagcgctt 420
caagggttga actgggttca caacgcgatg gcacgacagc aagggttagcc catgaatggt 480

aaggcttggg gcggtgtctg cgggtgctga aactagccta acaacgaaca atctgtagtg 540
ctatcagagg gcactgcgcc attggcaggg gctgtttccc atgacgtaga tggacagggg 600
ttatgatcgt cggcggttat tatgctggcc taactggta aagcggtagg ctaaggctgt 660
accttgataa ggcgagctac cttgttggct tctaagcatg taagttcaac tgtagacgta 720
atagcgcaac aggataacga tgaggtaggc agcccatagt acaaaaatag aaaccgccat 780
gccggacctc atatctggat aattcttaca aaaaagaagc cttatggtct atcagttctt 840
ttctcaggcg ggggatgcaa gacagttacg catagaaagt ttttcgtgag ctggacatct 900
atgtctatat acaataacac cacttgaag ctcttcgtaa tcagtttcat tgaacccggc 960
tctttgtatt tagcgtaact agactgatag taaacaaatt ggatttatgt atcaagagaa 1020
atattgtcgt atggccaata cagatagccg ttttgataaa catggagatc caccataagc 1080
tatattgggt agacctgagg gccacaaat ttcggtgggc aactcagggg aaatggaaat 1140
aggtaccac actggaaaat aatattcatt tatgctgcga accaattttt aatcgtttag 1200
gggaaagggt gttaatcacc aagcatgtta attatt 1236

<210> 2548
<211> 1872
<212> DNA
<213> *Aspergillus nidulans*
<400> 2548

ttcaagcccc caaagtgcgt aagcggcagc caagagctgc tgcagctgat gatcgatttt 60
ttagatttcc tggcctctta accgtttgtg gtggggttcc aaagaaacga ctcggcggca 120
gatcgttgat ggaattgaaa atttctccga tcatcaagat gaggtgagaa cgacgagtgt 180
agaatcgttg gcgtccctac aaaataagtt tttctacgca taaatggctc tgcttattgg 240
attcaaggcc tggaggtcca gagtcacgtt cttggcacca tgtgaaaagg cagaaatata 300
taacttataa tgggccattc gcgcggaggt gttaaggcag aggtttaaac cgaggataaa 360
acagtggggg catctataaa aggtatcttc caatgacctt tctggctata gcttctaaac 420
aacagtttga ttgaagactt atgatggttt ggcagatcaa gtttcaaata tcttgttatg 480
ctctggcacg gttccagagc catgggtcga ctaatacaaa aagaagaacc tcggcaattt 540
tacgttgatc tctaaccacg gcatttcgct gacagctcgt catcttttta agaccagaac 600

tacagctgct cttgaaacca aagcatcaaa gactctagac aaccaccagt tcagtcaaaa 660
 tggggccagaa aaagatcgag tgctatatattg acattggtgc gcccgcctccc cgtcccgggt 720
 ccaaaacaat caagtaacat cgggggcagt ctcaacatac agcttctatg ccttcaccta 780
 tctccagtct aaccgagccg ctcttgaagc gctagacgtt gaagtcgagt aggccgcacc 840
 attacttaca ccctatccac gaccagaagt cctgacaagc caggttcac cccgtctttc 900
 tcggcggaat caacgtcggg agcgggttcgt ctgagccac tgcgcctt attacttgag 960
 ttcatttggg gctgacagag ttctaataca aaggaaataa acccccatgg actctccctg 1020
 ccaaagccgc atacagtga tacgacgtca aacgagctca gcgctacttc gggcacgatt 1080
 ttgaggtccc gagtttcttc ccgatcttgt cgctgctcgt cagtgtcctc tctgttcacg 1140
 actacagtga aacgttctct tgtgtgaagt gactactgac ggagagatag ccacaacgcg 1200
 ccctcacata tataaaacaa atgtacccaa aggacaaata cgaagcgacc tttactcct 1260
 gttttgagtc gttctggtac cgacatattg acatctcgaa tcccgaatac ctgcgccatcg 1320
 cactgggaaa cgtctttgat aagaccaga tccaagagat cctagctggt gcgaacaagc 1380
 cagagacaaa acaggcgctt accgacgtaa cgaccaaagc tgtcaaggag cttggagcgt 1440
 tcgggtgtcc gtggttcacg gtgcatgatg ggaaaggcaa tgtggagccg ttctttggaa 1500
 gcgaccggtt tcattttatg tgggattatc ttggactgcc gcatggggat ctagaactga 1560
 aggttcaaga cagagagaag gggaagcttt aggtaaatta gggcttctga tcgcgaggga 1620
 gggaggctgt ctcgagttac ggagtctgca gtgcaccaat ataggcgcaa ttacggccgg 1680
 cctgggttta ttcaaagatc gttgagatga taccgcgaca ggagagcggg gacgtatagt 1740
 gccagcggtg gcatgccaac cgctaaagag gggttacttg atcataagct aaacctgcc 1800
 ttggctatat agtctcctca atattttgcg ggcgattttg ttcgggcact ttcttatcaa 1860
 tattgcattt gt 1872

<210> 2549
 <211> 1037
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2549

tgatatcaca tacgatttag gtgacactat agaatactag gatctgccac gcttatttcg 60

ggattcccag agtaacttta gtatcccact ggatgccgtt actattatgg cgctcttcag 120
 tcagaacaat gtctcttgca caacagaaaa cgcgcttggtg tcattcaaag gcttgtcctc 180
 aatgataac aagcgccgcg cactcaacgc ggatctattg gtggctgatc ctgaaaagct 240
 agagccatct tcttccacgg atgagcctac cgccactatc cccgttcgca gggaagttgc 300
 tacgaagaac ggcatthttgt tcgaggactc aggaacaaac gaaagccctg cagcggcaga 360
 gactagttct gcttcgacga gcgaagcgac gccagctccc acttcggccg tcaccggcga 420
 agcgctcgat ttctctcgga tcttcgggtct ctacaattct gagaaagacc gcacgctaga 480
 tgcggccatg ttctctgagg atgttatcaa gaaacacttg gaacattctt actccaactc 540
 ctctgacgag agttttgtaa ttaaccttgt tcttctggg ataaagggca acatcactct 600
 ggactatgga gggttcacca tcaactgattt cgacggtaat acggttgggg ggtcctaaaa 660
 acaaagagtt gcacatgcct tcgtctatgc gtattcgtct tgttctctaa cctggatggt 720
 tcttggtctt tgggccattg ggttttttct tctcgactc cttcatctct gctttattga 780
 ttggtgcttt tattacacga gagtcggggc cgctctcatg cttcttcggc gtcttctggt 840
 atgcatatac acctcgtttc tcagctcttc ttagccttgt tcagcctagt tcttagctag 900
 atgatccggg gcgattatag ctgatagcgt taatcatggt aatatacgcc tgtttattgg 960
 cattttgaga aatgcaaagc caaatctagt agccaacaaa tacagtttca tattcgtaag 1020
 gctttcgtga caaatat 1037

<210> 2550
 <211> 5466
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2550

cgtccacccc ggcggaacca ggactttcgg ctgtttcgtc aggcgcatca acccccagcc 60
 gaaggctatc tactacatcc gctgtgtccc ctaatattat gcatcagctc aacgagagcc 120
 gtccttcgca tcccacggtg gataatcggg atgagagcct tccacacaat acgactcatc 180
 agcgacgccg aagtgactcg gaatttgccg gccatcgtga gcagctaggc tctggggcgg 240
 ccaggcgtaa tgggggttgta gaacctgata atcataacgc agcaccagga agaagctggc 300
 tgatttacgt tgctcggaact aacctttccg agaatcaccc tgcatttgcc gcgccaagtt 360

tattcactga tgtaagtact ccaaagtctg aagacgggcc acaatcgcta accctgcgtt 420
tagaacccaa catacgagga tatggtatta ctgtcatcac ttcttggtcc tgtgaagcca 480
ccagtcgcta cccaggaaga cctgatttct gcgggaggcc tgtaccgtgt ggtaaagtgc 540
ggtgactcta tgtctgcagc cgctgttgat ggactcgtta ctatccaaat ttccgaaggc 600
gagcgtgttt tgatctgcct cagcgagtac gaagtggctg aggagcttcg acagttgaca 660
aaatgcgagc atctttatca ccgtgactgt attgaccagg tacgtcaaat tgcacgttga 720
tcttaccttg taagcataga gctaactaat taagtggta actacgggcc gcaattcttg 780
tccgctgtgt cggggccagg gtgtcgccga caaatccggc gctgaaccgc cacgaccatc 840
agatgcgcca cgcgcagcag ccgcttaata tttgtatca cggctgttat tatttatacg 900
attcccaact ctctattact gttagaagta ttagcatgg cgctttcccc agcagcttca 960
ccatctcttc gcatctttcg ctcttcgctt cagatatcca ttgctgcac gcgacatttt 1020
ggttttggtt gtggggtcag tatgcagttc aagtcagatc attgtttcat ggccggggtt 1080
caagtcatgg tggatcact tgatgtgcat gaacatgatt ggactcagcg agattttcgc 1140
atgggatata cactaacttt ctgtatactg tcatgaggtt cggagaatgt gtttttcgca 1200
tgagctgtat tattccccta gtagcataga gcgctctgtt catgtcaata ggcagccgga 1260
agatcatgaa attcattact tatagaatta aggttgacta tctgcctaca tcacatacta 1320
ccttcattgt atgtatcaga tactttatta taccctcca aaaaagatgc ccgaaagtaa 1380
ctaggcactg actgattact cagcttgctt gcccgcggtt caaagtgatc ggagcttgat 1440
cgcgatcaca tcgcccctcg accatactga aatttcagga acaagcactt ttcgaccgtt 1500
ccaccatcac tcgaatatca gagggcaatt gttgggatca gaggcaacct tgctcagtaa 1560
cttgaagagt ccctgattag cctatctatc ccgctcagaa attcgatta aaatacaacc 1620
cgactacgaa ggtagactga aagttccaag cggggaacaa aggaccaca aatggattca 1680
attcgcctaa cagtcctcat ctccggctct ggaacaaatc ttcaagctgt gatcgatgac 1740
accacccttc ccgcaaaaat cgtccgggta atctccaacc gcaaaagacg cttttggcct 1800
ggaacgtgcc cgacgtgcc aatctccca cacagtatca caacctcgtg aagtacaaga 1860
agcaacatcc cgcgacaccg gaggggtgtc agcgcgcaag agaggagtac gatgcagagc 1920
ttgcacgact ggtcttagag gataagccgg acttggtcgc ctgtttgggg ttcatgcatg 1980

tgctttcggg gggtttcttg gggcctcttg aggccaaggg tgtagaatt gtgaacttgc 2040
 atccggcggt gccgggggag ttcaatggag cggttaagttg ttaccttggtg agccatactg 2100
 agctctgttc ggccttttgt gctgactggg tttcctacag aatgccatcg aaagagctca 2160
 tcaggcatgg ctcgacggta agattgagag gacgggagtc atgatccata atgtcatctc 2220
 ggaagtggat atgggaaaac cgattcttgt caaagagatc ccatttgtga agggagctga 2280
 tgaggatctg cacgcattcg agcagaaggt gcacgagatt gagtgggaagg ttgtcattga 2340
 ggggttacag aagaccatcg aggaaattcg gtcgacgaag tcataggcta tgggttgagg 2400
 gttgggatgt ttttggtgta aaaaaaaaaag atttgggtga cgagcattat gataccattt 2460
 tgtagtatag cttgctaggg tacgttttat agaggagtat aacatgctga tattaagca 2520
 cggcacagat ggtcaatctt agtcaaaggt atgcttgagg ctaccacagg tgcataatga 2580
 acaagtccac tacgcagctg actggtgctg tgcaacaaga agtgccgcaa gcccatccac 2640
 cagttcaact cccaagtca atgatcatat cgaggcggac tcgaacttcc tccgcctccc 2700
 aggtctcac agtattaatc ttgagctgag gggttttcat cctgattgac ggtctggact 2760
 aactctcca ttgtcagcca gtcaagcaac tgctgcctg ctgcaactgc aaagcaacgc 2820
 cacccttctc tatgtcagct tgacacaggc agcttgagat attttcaaag tgagggtgaga 2880
 gcctggccaa agtaccaaga acggagttga tatgctgtca ccgactaatg caagcacgaa 2940
 ccttagatcc tcttgagct acctaccgat ctccgacgcc gtccagacag cgacgttgct 3000
 gtgatttgtt ggcctactga aatgacagat acgataatcc cagccggtta tgggttct 3060
 gccatgtgcc cctccaagtc agtaggcgga atgcgtcttg aatatccacc aggatacaga 3120
 tctgtggtc gtgttatgga tcccaggat gatgccgccg attatgaaga ttgcagcgtt 3180
 gagtactac ggttctaatt gacaggtgat aatttggatt cgaattcctt ttatcaatca 3240
 cattctggat ttgacagcga gccgttcagc ccctgaatgg gaaaagacgg agacctctcg 3300
 tttcatgaac cgcccttgag aagcttaaga agccacgatc cgaggcccaa gctcgaaatc 3360
 agcaagccca ttaaacggcg ctaaactagg cctcggcggt aagagttgaa aaccgcgtgg 3420
 aacaccagta cagagtatag ccaaccatca tattcaatca ttgacaagaa ttggttctc 3480
 tgggagcggg cagggtttc caaactagac aggtagttct tcttctgtct cactgtgcgc 3540
 agcaatgtct gtcctactgc ccaagtcgtc atgaagcatt agcgtgggc gcatccaact 3600

tgacggcagc gctgcatgag tgcactcagt gaccaataa tatgcgcccc ctgcgttcct 3660
 ttggtattac caggtattcc ttttaattca ccatgccatt ggacactgac atgcttagac 3720
 aaggccagtc atcttagact ggaagacctg tcacggtctc ccaggagttg cattctgac 3780
 atgaacgtga atcctaattt cccatccaaa agacaccctt ccactttcgt tgagtgacaa 3840
 tcgaggagag tccaggaatc cacaatatata gcgcgaacag agaacggacc aaggtaatag 3900
 tttccacctg ctatgcgcct tgggtctgtgc tgctcgcggc ttgtttgctt gaagggaaga 3960
 ttatctattt ttttttttcc tgagttcctg gagatccagt tgtcaatata gaggagtagg 4020
 ccaactaacc aaggatatcg cggttgcctat gtatatacga actgtctgac ggaaaattat 4080
 tcttgagagc tgcagatccc ttcacgacac cagacggtgc gcaggtgtca aatttcgcgc 4140
 gccatctgcc aactgcttac gaacttcacac tacatactga agtccttttc gtgatgggtt 4200
 tcttatccgt aaatctcggg ggtaagggtg cagctgcaga gcactcatca ttggaatcag 4260
 acctagaggc tcaggtcctt tccggatcca ctggctgcac aaattctcgg caacgtgaac 4320
 catatcgact gaccggcaac aacagaagtg ggagcccga gagctccgca ccagactctt 4380
 acgatagttt tcgtgttagc aagccaacct atgctctccg gcttatccaa catctgggtg 4440
 tttgcacaag gattatgaat tgcgagtcgc tgtgtcagga ctccagcagg tcgactggcg 4500
 tgcaggagct tccagtttta ggttgacata caaatgatac aatcctcctt tactccgggg 4560
 aacggagcac cctcgagtcc tactcatggt cccaactcct ttcggagtcc cttggctagt 4620
 tttgcctaata cagatataac agctgataat cccactttg cagcgttgca ttgattgcgg 4680
 tgcggcgctca aattgtcgaa aactcctttt ttgaaagtcc aacttccaag caataaacca 4740
 agaccggccc ttctgggtta gccaacacag tggctcatgg tccagtcacc gacctttatg 4800
 atgctcttat attacaatgc gttcaagaat aagggcgag atgaacaggg agcccgccg 4860
 cttggcttcc ctccgtttca tcaaaccaca aacctccgt gctgattcat gaagaggatc 4920
 cgaggaaatg tgtgcgagtc cactctgcca gcataaaaga atacggccga ggagggtgag 4980
 caccaacagt ttgaccagtt ccaccagaa gggctacaa gtgaacgggc cttaactcct 5040
 tggggactag ctgcccctcc atggcagcat atctcgccc tgcggcggtt ttctatcagg 5100
 caccaccccc ggactgagcg acacaagaca tccgggctac agttatgctt gcctctgcct 5160
 ttgaacttcc ttaggggggt gatttgtctc ctgcactgac ccagatgacc gagcacgcta 5220

tgcataactca gttacttagt ttgaaagaga gttccaccca taccacagga atcatggcga 5280
 aggtacgact tgaatatgca gtttgaactt caggggtgtag agaagggtcac ggtctacaat 5340
 gacacggatc cataataaag ttgatcgaag accatcctcc cccctccaa aaaaaataaa 5400
 gcaaaaaaaaa gtcctaaaat tcaagggccca tccatgtcat aattctgac gtataagcaa 5460
 taatag 5466

<210> 2551
 <211> 901
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2551

ggaaataagc agccaagtcc tcttcagttc acgcatgttt gctacaagga gaatggcaac 60
 cagccgctag catagcgcct ctgtgagcaa gactagactt caggaaagtt gctatccaac 120
 gcagttcaag attgcagcag tacacccagt ctcttctgtg gccttctgcc tccaagctt 180
 ctgcctctca aggccccgag cgggtcttagc tgcgtgcat ggccaccaa tcttggtctg 240
 agcttctgct ttagccaggc tgtctgaagc tccaggaatt ggtattcgtt ttcagattag 300
 tttgactcct gcggtcacgc gttatcgttc ctgtcggta ggtcagaagt ttgcgttttg 360
 agattgcaa atataaccgt tccctgatag ggttgagcc agatgtactc ggaaatgaac 420
 taatatacga gagcttggtt gcatgggtcaa gaatttggcc tccggtattg cgcctgaaga 480
 atcagettac gaatagcggc gatggccata tttggttgct aacatccagg tgacaaaacc 540
 aagcatttca acatgacctg ttcgggcctg cgtcaaggac cgttccgtga tctcgtacgg 600
 gccctttctg ccgtacgtct aaagagtctt cgatattgac taggtcatcc cttcagcaaa 660
 agagattggc aagaattgat ttcttatata cgtttcataa aaagagaata atctcttatt 720
 tcaaattgac ttagagagcc ggtttccgta cggagatgat tatgtcccgg agtcatcag 780
 ctcaaggacc gggataaatg gtctgattaa ctgtcttgaa agaatatcga ggactgatcg 840
 ccgctgaagc gcctcggcga cgccatggtg atgaaagcag tctggtgctg ggcggcggga 900
 a 901

<210> 2552
 <211> 7236

<212> DNA
<213> Aspergillus nidulans

<400> 2552

ttgtcgacgg gctggcgctc gccggtacgg cggtgctact gcttggcctg acctgggggtg 60
gtggagagta tccgtggcaa tcgtcgcatg tcattgcaac cattgtcgtc ggttttgccc 120
tctgcgttct tttcatgtta tggcagtggg agggcgcgagc gtaccgctc gtcccagtgc 180
acatcttcaa atcgggtatc gtgaacggcg cctgtctgac catgttcac aacgggtgga 240
acttcctcgt gcaggtgtac tacatcccga gcttttacca gctgggtctt ggatatagcg 300
ctgtcagggc aggcgctatg cttctgccga ttactttgat gcagagtacg tctttcattc 360
cgcgcgctc ttctctacga aatttatgaa tgcaaatact gatggggaga cagctgcaag 420
cagcacctc tcgggcctcg tcgtccactg gatcggacgg tacagggagt gcacccctct 480
cggatggatg atctgggctg tgggacttgg tctgttttcc acattagatg agcactcggg 540
cgtaggaaag cagatcgggt atgggatctt gacgggtgtg ggcgttggga atactttgca 600
gccgtatgct ccaatcagtc tgtataattc agcatcgatg ctaacggatc ccgtgtgcc 660
gggcccttat agccattcaa gccggtgtcg agagacgca tatggctgtc gttacctctt 720
tcagaaagtg cgtcctccct ccttcgctc ctctagtgtc tgcagttagt ccagtcaaga 780
gctaattact gcgaatcgtt gcacctacag cttcgtccga aatctggggg gaacactcgg 840
tctcgcaata gccagacaa tcataaacia cctcatccta agctccctat cggcagtcca 900
tctctctcct tccgagcaga agtccttctt cgcaagccca actgcctata tatctactct 960
tcccagagacc gaagccacac atattcggag tctcctgata ccagcctaca aacgcggctt 1020
ccggatcatt ttattattg gggctgcgct tgcggcggtg gcatttggtg tcgcgttcgc 1080
gcttatgagg caggttggat tggagaaggg agatgatgag aagcttaagg aggaggggag 1140
aagaaggggtg gaattggaaa aggggatgaa ggggcatgcg gaaaaggagg gtggagatgt 1200
tcacgttgat agcaatgacg aggggagggc cgagtaaata tccatcacgt gcgtgggttg 1260
agctcaagac agaaaagcct ttacttgtca atctgaagga ctccagatgg ttgttgctga 1320
tagaatgtgt ttaattagc atagactcga taaaaaagga caagctagta cagagcagct 1380
tgagccacaa actagtatca caatagtgat cgcgttacga tgaaaaaatt gaactaagaa 1440
attgctactc atttatgtac aatttagaac cataagcata gacatccata gtttacaatt 1500

tagccttggc accctccagc agctccgcac cagcacctga gatagcaggc ttgcccgtct 1560
caacaacggt agtctggaag aggacagtgt tgccctcctt ccacatctcc gtcctgagag 1620
tctggccggg cagaacaaca ccagcaaagc gaaccttcaa gttcttgatg gggccaaatt 1680
tctggaaaac gtgcttgccc gagacaccga gcgagcagag gccgtgcaga atggggatct 1740
tgaagccgcc gaccttgctg aactcggggt cgatgtggag cgggttgctg tcgccgttca 1800
ggcggtagag cgcggcctgg tcttcagatg tcttctctc gacgacgacg tcagccttgc 1860
gcttgggagg tttgtaggcg gcgacagcgg ccttggggcg aggagcagtg ggcttgggag 1920
agccgccaaa gccaccgcta ccgcggtatga aaacggtgga ttcgttgtag aagaggtctt 1980
cgccgggtggc gacgtccttg gtggtgtagc cagcgacgac gagcgacgag gcgcctttgt 2040
cgatgacatc aatgagcttg gggtaggtct tggctctggc ctgagtggga atggggaact 2100
tggaatctc catgtactgc tctccgtgga ggagcatcat gggagaaaag ttcttgacaa 2160
tgtcattcat gtcccagggg gtggcgggtgt tgaaccaggg aatgacagca aatgtgggga 2220
gggcctggaa gtgctcgttg ttctcgtaga cgagaggag atcagtgcgc ttggcgccca 2280
agctgaggtt gtaaaggatg acatcgcggt cagtgtagtc gaaggaggtt ccgtcagtag 2340
aagccttctt ggccgcttcg atcgcgctca ggatctcgtt gccactgcca cactctcac 2400
cgccgctgcg gttgctgaag ttggacatga cttctcgtt agcggccttg atgtcctcag 2460
gggtggtctgc acggccatcg tcaaagttga cgatcttcgc gagctccttt gcaacagcct 2520
cgggggtcaa cttgacatca acagggaac cgtggccgcc gctgcgctgc cagcgggtgc 2580
taccgaacca cccgctacca cactcgaaca gacccttggg agagtacggc tctgggttca 2640
tatcgagca gagcagaacc accagaggag caacgtagtc gggcttgaat gcctggacca 2700
tctcctcggg catgatctc cgagtcatat tggtagcagc gttcggggcg atggtgttca 2760
ccttgatgtt gtacttggcg ccctcaatcg ccagagcacg ggagaatccg agaataccaa 2820
gtttctacga catagattag ctaatgtaag atagatgact tcagggaaca taccgctgcc 2880
gcatagttag cctgtccgaa gttgccgtag ataccgctgg tgctggcagt gttacaatg 2940
cgaccatact tctgcttaag catgtgagc caggcggcct gggtgacctt gtaggttccg 3000
cgaaggtgga tgttgaccac agggttccac aggtcatcgt tcatgttggg gaatgccttg 3060
tcacgcagaa taccggcggt gttgaccagg atgtcaatac gtccgtaggt gtcaatggcg 3120

gtcttgacaa cagcggcacc atcttcgcat gaagccttgt ttcctacagc ttctccgccg 3180
 gctttcttga tttcctggac aacaggctca gggtaacca ggctgtaac cacaaccttc 3240
 gcaccgagtc tgccgaacag aaggcagtag gcacggccaa gactaataaa gttagcttga 3300
 gcatacccta ggcttcaa at aacatacccg ttaccacctc cagtgactag agcaaccttg 3360
 cccttgaact ctggctcggg gccggacggg gcaggaggca acttcagacc gtcctccaac 3420
 agtcccataa agtcggcagg tccagtggg tagtcgggct tggagaagtc attgacctcg 3480
 ttccattttc tggcgatggc gcaaggcgtc agtgaagcat cggctctcag cagagcacc 3540
 ttggaacgct ccagcggag cttggccaca tgaccgcctc caatctcgaa gattgaacca 3600
 gactcggtagg tgttgatga gtggaccaga acggcgacga cgggaacaac ccattcgggc 3660
 ttgaggagtt caagaacctc agggggcatg acgggtggctg tcatacgact cgcggctgtt 3720
 ggggttagca gtgccgtga gtgtcaacac gtaacatac caataggggc aatgacgttg 3780
 gcaataatgt tgtacttggc gccctccttt gcaagggtct cggtgaaacc gacctggccg 3840
 agtttggcag ctgatttgtt agcttattcg catttgctgc ggtgtgagac ataccagcat 3900
 agttagcctg tccgaagtta ccgaacagac cagcagcaga ggcggtgttg atgatacggc 3960
 catacttttg tttccgaaa tgccggccacg cggctctcgc gcactgtgaa atcagcctct 4020
 catccgtcga acgccgaaga accggttctt acctgtatg caccgtatgt gtggactttg 4080
 ttgatgagat ccagctcttg atccttcatg ttcttgaagc tgacatcccg caggataccg 4140
 gcgttgttga tgaggacatc cactcggccg aagttcttaa tggctgtgtc gataatcgca 4200
 tcgccgttct cgacgctgtc gtagtttgtt acagccttgc cgcagcagc tctgatttcg 4260
 tcgacaacca catcggcagc ctaccacaga acgcgggtca gcactgggga catactgaaa 4320
 agtaataatt gcatgtgatg ggctcacctt gcttgacttg ccttcaccct ggtgggagcc 4380
 gccaggtcg ttgaccacga catttgacc tcttgaggcg aagaatagag catatgcctt 4440
 acccaaacca ccgccagctc ccgtcacgac gacggctctg ttgtcaaagc gcagctcgga 4500
 catgttgaaa aagaaagaat gaggggaaaa gcgtggatgg aggatgaaag cggaggtgga 4560
 gggtgaaagt agacgaagaa gaggaacaa acagagatat agatgcttta agaaggaatg 4620
 gggaggatga agagtggat ggggagtcgt gggcaggaga aacaatctgg ggagaagtgg 4680
 tgacggctgc cgtgctcggc aagctgagtt gcttgaaccg aggtatcttg ctgacccaag 4740

ctcggtgggtt ttgtacccac ggcctagtcg ctacagagaa aaatggcaaa tgtcacggct 4800
 tcacatgccg agctctcacg cttcacttac gataatcgag tgttactatt atttactctc 4860
 ttactacctt tgatcatacg cattctccct ctgggggtcgt ctgcccagagt cacgggtttt 4920
 ctttgtcttc cccaaacggg tagcttgggt catgtgatcc gagcccagagt cgtcttatgt 4980
 catggtcaca tgattttatg tggggtatgc gcctaaggac cccccgaggt cccaaaactc 5040
 acgtgagatc actacgggtg gttgggtgaa ctgagtatct gcgtacgtat gaacgctatt 5100
 atgcccatac acccttggaaggaaatatt agaccaagtc ccaaccagc aattcctcaa 5160
 tttgaaaatt atgagtttcg acaggagacg atcttgaatc ttgagcogtt cctagttgat 5220
 tgaaggcact atagaatgga tccttgcaac caatactatt ttcaggggtg tctgtgaac 5280
 ccttgtaatc gtctatatct tgacctgtc gacttgctag aaaatgacgg aggtgcaggg 5340
 atctcagcaa agacagggac gcgaagctcg gtccaggcg tggcttttgt cccatgctcc 5400
 tgaacgggag tgttcgtctc cagcgtgacc ggatatggtt tatcgatctc agaggctcag 5460
 gattacccat ctgctcggag ccggtactag cggtggtca gtaaagtctc tggatgacgc 5520
 ctttgcctta gacaatggc tagggcacgg cggatctgag cagcacgctg aggcagacag 5580
 aagtctttcc gtggccagct gctggacgct tcgttgacgc tgcgctgaag aggccgggct 5640
 ataagaagat gttcatcaa ctgccgcggg cattctcatg gccaaaggcc taataacggg 5700
 gcgctctcgt ccaggggctc ttcagaaacc gccacttcag ccaccgctg ttgttgctgc 5760
 cgccatcgct caaaccactc cgcatactcg tctggcgaag cctcgctgga ctcacgaccg 5820
 tacttatcga tatcaacgac taggactagc tttcggaccc ccgttcacgt ctatcatgtg 5880
 ttgctgaatg ctcccgtaac gagtcattgg tcgtgatgaa tgtccagatt caggttgctg 5940
 tgcacgctgc aatcctcgat caaggactcg ggggtgggtt gggcgcccg tgcggtgctc 6000
 agcttcgaaa tcggacattc tatggttgag cgttgctcgg ccgaggcctt gctcgagatc 6060
 gagatcgctg tcttctcgt accagtattg ctttcttcgg atgaagaaga gaatcggaac 6120
 ttgcagagc tgtcgaggga gtgcccctta cgtcacgcgc tctccattg tctgggcgta 6180
 ctttacctgg cacatcatac cgagggcgaa agtcaagaag accaccgac ccaacatcaa 6240
 gatgatcgct ccatcgagct ctagcagatg gaagtgtccg gaatgtgtgt tatttggggc 6300
 tggcatgttt cagctactgt tggctacgga ctctggaatg taagacggga gatacatgag 6360

cgagacatg gaaggggaga gcgacgctag aaggaaaatc gaggaactcg ttacgagggc 6420
 cgatgaccta aggatcccaa gcgctctcttg aattactatc tttcccattg tacttttttt 6480
 ttctttctctt atccgcgact gaccaactat cgacgagaat gctgcacgtg cgaacgtagc 6540
 actatagcgg cggcagctat acatatgcag ctagtcctag cggacgccta cgccgtgtac 6600
 caggcaccga aaccgggttag tagctttcca gaatgcttaa gacaggcca aatagcccag 6660
 cccggcttta cccggggcca cgaagcggca taattcagag tcacacacaa tgagattgga 6720
 tactacagct tatgaatacg ccgcgggctt tgacaagcta agactagcag atgcttctgt 6780
 ttcagcccgt cagataacgc ctgaacgtcg ggattcgaca accgttttct cgacggataa 6840
 aaaggcattc tccgttttagc caatcattcc aaccaatggt atattctacg tacggcgtta 6900
 acaccacaat ggtccaggcc cttaaacacg aggaggtttc tgtggatcca aaggagaagc 6960
 tttgcgcca gatcttgacc gtagtcgaat agatgattac gccggtcttt taccgaggct 7020
 ggtctctcgc cgtgtcagcg tcagatgtgc cacaggccta tgcattggaga ctccctggta 7080
 ctgcgcactg gttcggagtc agtctccagg atctagttga gaatctcatc atctcccaga 7140
 gtgccgtcgc catggtgggg gccgccgtcg gaatgcgagt cagtcagcag tcaatcgtaa 7200
 caaccctct cggctggcta ccttaacaag ctgcga 7236

<210> 2553
 <211> 565
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2553

atcgaatcaa tacgactcac tatagggaga cccaagctta ggatcaccac atcaccaccg 60
 ctgaggagct gagagtagcc gacgttggtt ttggggctcg tnnnttttta tttttttctt 120
 accatgacac gctagtttct gttcggatta taatgcatag ttgatgacca tgattcgatt 180
 gtcgtatttg tgtcgggtat aattttttta gattataagt ttcttatgat atatagttgg 240
 ttaaaacatc ttcttctata tagacttgggt ttactgattt aattagtaga attaattttc 300
 tttgttttta ataactgagt ttattctcat gttaatatat ttatcatggt tgtaattata 360
 tgtcatcata taaatcaatt agttttcatt tttacatagc aatagattct tcttttattt 420

tttttttctt aatttaattc atgtttgtac cgactttttg atgatttatt ttattgataa 480
 tatctatgtg ttatatcaat tccctttctt attcaaattt ttttctttaa tcgatatgac 540
 tatatatga ttactgctac tacgc 565

<210> 2554
 <211> 753
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2554

atacgtgcgc tagaggtacc tccaacagca ttcaatagat acgacatatt accaattctg 60
 cttttctatg cctgatttct ctgatctagc cccctggatg cagaatactt caaattgaat 120
 cttcattaca ttagcaggat atggctgaat aagtctaate tctccattgc acaaatacat 180
 catcgcgtccg gaagcgtgc gtgcacgtag attccttgag cggcgtccgg aagcctgtct 240
 tatatgcgag cataccagcc tgggcaatca taatcccgtt gtcaatacaa aacctctcat 300
 ccgtggcatg cacactgcct ccgcgatccc gcgccatgat ccccatcatc tcctgcagcc 360
 tctcattaca tccgactccg ccaacaatca aaacttcctt cgaccaaca tgtgccatgg 420
 cgcgctctgt aatttcacc aacatcgaga ataccgtctc ctgcagcgaa aagcacagat 480
 ctgcccgggt tggtttccgg ctttctaaag ccccgctga aacgggcgta acatctgtta 540
 cgttctctc ctcatccgtt tgttctccgt ttagtccgta cgttgccggc agagcatcaa 600
 tggctgcaag aatgcctgac atagagcagt ccatgccttt tactgtgtat ggcaaactga 660
 ccagttgctt gccctttttg gcgagttgct caatattgta ccccgagacc gggtcattag 720
 agataggagc gttcgcgcga atcgggtccag aca 753

<210> 2555
 <211> 1596
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2555

actacagaag atagagtacg agtgctcgac ggtagtgccg ttgcgtagca aatcgctcgt 60
 tgactttcat cacgtttgac aaacacttga agatttccat caattttttc cagggtgcgat 120
 agtcctcggg aactgcctgt ttctagtcca tcgccccaaat taaagcgccg tgagatatcc 180

tcggttgat acactgttgc ctgggagaag atttcctcga ccttgccgta aggaaggata 240
 gagactctgc taccataata gatcgcgcat cttaatatgg ctcttatcag tgatgtgttc 300
 ggaacagtgt atgccgtcat acttaccgaa gtaaaaactg tgccctctgc cgcaaatcat 360
 gtgtaagctc agctgattta tccgcattgc ctgtaatgac tgttgtttct ctaagctgat 420
 ttgatacata acgctcctgg agatcgaggg ctgaaaagaa ttgtcgtaag cagcatacat 480
 cttccggggc gaagttaaga accggaacat gggatcgcgt ttggagacga tcatcgtcga 540
 cgatgagaaa tggatagctc actgtcgcgt agatgatatt gttgaccccc tttcgaacag 600
 gtagaaatct aatcatcttc agaggctcga ggtcaagtgc ggtgggacga aggctactga 660
 gctctttgag aaccaccaa atctcgctgt tgctgctgct cgacgccatc atacactgga 720
 ttttatcaat gtatgaacat atatccggca cgtctacgcy tagcctgtca acgaagaggt 780
 cttccagacc aggatagagg tggcgatgg catactgtcc attagtaa at gggaagacac 840
 tccacacaca atttttcgtc aatgggatcc aggcattctc gtagggaatg tagataaagt 900
 ctccgcttct aaaattagcc ctaagcatgc gatgtcagtg ctgtacttta ttcaaaactc 960
 tgagtttaatt caccgaatgg tttcccaatc ttgctcactc caagaacctt ctacgatttc 1020
 cttgtagatc cgacagaccg aatcttgaga aataccattt tgcctcga gccatgacag 1080
 cttcgaaaag aacgctgcat agtcctcatt tcggcagctc agaactcttt gaaacatctg 1140
 cttcaccttt ggactctgga ggtattgctt ataagacccc aagacgtgat taccgcaagg 1200
 aaaattgtca tcccagacgc agtcggctag cctaaccagc ttaccatctg agtctggctg 1260
 aggaagatag acaatggctg gaggtgtcgg actatccctt ttgacaggat tagcatacac 1320
 cagacataac agctctaaga ctacacaaaa tccatcgtaa taattgtcag ctagcaactc 1380
 gtacagcttg aagaagccat ctcttgcatg gctaagaggc atcattgaca gcctcttagc 1440
 acttcctact aagaactccg ccatagttgt accaacgcca aatcgggcca gaaattccca 1500
 gtccttaaga tcatcgtttt cctgctgga aagaatcttc aggaagggga acttgtcctt 1560
 caagtatgta ccagacaata ggtttcttgt ttcac 1596

<210> 2556
 <211> 1718
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2556

caccgatcaa gttcgcgtcc tcaacgaaag actgcggatc agtcgcgata tttctcttgt 60
tttgatctcg cgaaacgccc agtcccgtcg gtaccgcggg caactcgtcc acctccgttc 120
cgcaaccgcg gccgcttccc aacgcgcagg acatgcttct cctccccgca gataagctac 180
ccatgctcgt tcttgcgcca gtacttgggg aaccgcgataa taatgtccct gtcgactgcc 240
ggcgcgagg agaccatcgc tcgtactacg aatgcctcga gtactcgacc ttttccatcc 300
tcctccgcgc tcaccagggc ctcaacacaa gcctctcgaa tccgacggcg cttcctcgca 360
cgccgtctct aatacatgtc tttcgcccag cgtcgaccga caatccagtc atccagatcc 420
ttggcctcgt cttcagccaa gtgcgcccgg caaatgtccg tactctgttt gcttgctatg 480
tggtgatgta tcgctttcta cgagtaagct cctcctacac aactggcaac catatatatt 540
ctcccgcta acatcctggc tagtggcgcc tctgcctga cgaagaaacc caacgcgatg 600
tcccaacctg gctatatcca accgaaattc aaaagaccat cccgcatccc gtttgcatcg 660
acttctccc atggccgggc ctccgcgacg gtttgataca caaggcgac gagatacaag 720
acccccgaca ctcagtgatg atgtacatgc gctcaatcca cttccggtgg ccgggggacc 780
aggagtttat ctacaccaat gagaacgggg aactgatgcc gacgccgagt ttcgaggccg 840
gcttgtagcg gtacgagaac tggcaagtgt cgcgcgagtg ggcagcaacg tttccgaaat 900
tgaaaaagta cgtcaacggt ggtgatgacg aggggtgttct ggtatgaaac gcatatatga 960
ccatccacat cgtcgttggc gttgccgagc tttcggtcat cgtggttctt atttaatggt 1020
gcccattgag caatctgtgc aatctacttg caggtgtaca tcatgggtca aaacaactag 1080
aatccgcaag tagcgtgct gcagagcatg tacattcctc atcaagctta ccatgttctt 1140
gtatttagct gcggcaatag cctacaaaca acatcattct tacaccttca ggaattcgta 1200
ccggggcggt tctgagccca gagtcatata gtcccgttaa cttataaag ttgcatacaa 1260
actatgtaac cccattccgg gcaccaacag tgccagcaat tgtttcttga gtatggcggtg 1320
gcaccaatag cgggggttcta agtctgcaag gactagactc tgcggctttg ttcctcgtgg 1380
tcaagtgage gagcctgaca tgcatagttg tcccgcaacg gtagcaatag cggctgtact 1440
ccgtttcttt acaaattggac atgggttctt cgagcccgtt tctgacggc catccatgtc 1500
ttgccagcc atcttagtct ggttcttgag tggccactca catcgagtgt tgtctcactc 1560

atatcacagc agccatccat atcgttacca atcatcctag ccttctttcc ctcatgggcc 1620
 actcacattg actgctgtct tcccttgccg ttgtcttcgg atccgccagt ctgatattcg 1680
 agttacagca gatagcccct gcgcagaaat gatcgtat 1718

<210> 2557
 <211> 720
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2557

acagcacccc ttgactctat ccaggcgagc tatttcacaa aggtgaacga aacattattg 60
 gataagaaga cgggagagat gctggagctg ctgaagtcga tggatgacat tattccggca 120
 attcttcagc atgttgataa ccccatggtc atggatcttc tgttgaagct gatcagcttg 180
 gagagagctg agggcggcca gggcatcggt gatgtaagca tctgtggtcc agttctagct 240
 tgatatgtct aacaatcatc cagtggctca aatcgagga tctgataccg agattgctct 300
 ccttcctgtc gtctgagtgg ccggttccg ttcagacctc cgcgggagat tttcttaaag 360
 ccatcataac catatcggcg aatgcaacgc agaacgacca atcttgatc ggcccaaaca 420
 gtctgactcg tcaattgggt tctctgccat gcgtggaaac tcttgtaac gcgatgttac 480
 aaggcggcaa cactttgaca gtcggtgttg gaattgtaat tgaagttatc cggaagaaca 540
 actctgatta tgaccggag cacctgaatg gacctgattc tattcctacc atgtacgac 600
 ctatctatct cggcacacta cttcgtgttt tcgccaaaca tatacccgac tttgtggcgt 660
 tgattagcag ctcaaagcat acggttggtg atggagggaa gatgaagagc gtggaacgtg 720

<210> 2558
 <211> 1159
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2558

gcattgcgca tatctggcgg catatctata cagacaatta gtgctcttac gtcatctaa 60
 caacgcccc gtctgcagga tctacactgg ctgcgagaag cccggcttcg gaaacgtctc 120
 actgcaaggg cctaccgttg ccctatctgt cctcgaccca tcaggaacga tccatggcta 180
 tgcagaagtc gaaagacacg cagacaagga ccgatatac ctccgcagcg ggacgatatg 240

caatccaggg ggcattggcgc acctcggctg gctgaggatg gacgatatga gagccgcctg 300
 ggacgccgga caccgatgct ctcatcctat tcaggagggtg gacgggaaac cgaccggaat 360
 cgtaagggtg agcctggggg caatgagcac aatagctgat attgagggtt ttgtcgcttg 420
 gttaaagagg aactacgtgg atcgatacat tggcctcccc tactcggaga agtcaagtgg 480
 gtcgatgtcc aagagttcgc tggatatagg catggaagag cagaggccag ctagaccgaa 540
 acgtccatgg gtgaggacgg tggcaggacg ctttcgaatg ttactctgtt gaggttgatt 600
 gatataatca cacgtcgagg ggggtggaata ggatatccaa ttgagtatat agatgggtcta 660
 gagtataacc cttcgggggt tgtgtatagg tatattcggc ctttcctcaa gagctccaga 720
 tatagcacga taccaaacaa acaatcatct ttttctgct attgttcgtt cccagtaagc 780
 atccctaaat ttgagccgat catcaggctc tattgtgggt tccaggatga gataccgtct 840
 taggctgtag gccatcagtc ccagaaccaa cgggcgaaaa gaagcaaaaa ataaggcgca 900
 gatgctggcc agatcgagaa ttttggtgca accctccctc ggtagctgc gtgaggattg 960
 ccagggtctg gtgaggagtt cgttcttctc tgtactcttt actagatact ccatactcca 1020
 agctgttctt ccacctcacc atacctgcga atgctagcag agtttcactc attataagcg 1080
 caacatetta ctcccaggta cactttcgta ataccatggt ttgaatcttg atcaagattg 1140
 tgaaagatca ggtaaagag 1159

<210> 2559
 <211> 2275
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2559

ggttgtgggt tgcattggtcc aagagggaga atccatagcc ggcgggtctgc tcgggtgaag 60
 attgtcatta cgcccgaggc gaagaaatac tgcgatgcgg ttgttgtcgt taaaaaggag 120
 gaggtccagt gaccggcgac ggggttggct gggctgggga gcagtttttc aggaactgga 180
 acgtcgaaca gaacgggaat tcggggctga ttccatctag ttagcacgtc tcaatagaga 240
 atggaactgg ggcccgaggag cgtgcgggtg agagccttca cttacgtctg tgatggaagg 300
 gtcttggtcg ggtgcgaagt tatagccga acagaagggg ggggggtgggg cttgangggc 360
 agtccacagc gcgtcatgaa ttttgggaaa catattatat gtgcactaac atgcaggctc 420

tcagataaat cacaatgttg gtggaggtga gagtaggcgt gggatatttat gcctgggttg 480
 cagcgcatct gggcgagacc ggttgctcct tcttcatggt gctcagttcc gccataaaca 540
 atccccgtcta ggaagtaaca agatcaatcc ggtaggagtc ttttagggta cctattaagc 600
 ttacttatga gtgggtggaa gtttcccatc tataccctcg acaccgtgaa cctgcctcca 660
 cgagttcttg aaaacatcct cacggttcaa tccttcgacg ccgctgcaag tttcctatgc 720
 tatgatggca ccctggcggt aggtcttttg caagagacaa agctaaggta tgagtacctg 780
 gcatatgtac cggttgacgg ggcatactcg ttcggttctt cgcacgtgga ccgccagctc 840
 ataagacgtc tcgtcggtcg ctccacgcct cttagattag ctctggctgg aaggtaagtt 900
 ggatatagaa gaatacatgt tgagtgtgct tcgaaatatt ccagctagag ggtgtttcgg 960
 tcgccgctta attgtgcttc gctggctcta agaatatgta ttcaccagct ggtgacggtg 1020
 gagtcaagtg actcttcac atgttgctgt tcagctaaac gcaaagaccc aattcaaaca 1080
 tccttgatac taagagtctg ccttcagtcg agcttcggta cccaaatgca caagcaagta 1140
 agtccattcg gaggtgggga agggcttcat tcgtggcgat ttcattgacca cacctgccag 1200
 atgatctgag ctatgctgat gaacattcac caatcctgct tcagggtttt tattggatat 1260
 ctattataga gaggcttgtg gcagtggtcg ggaagctgtc gacaaaaag ccttggtaaa 1320
 ttcagtcgtt taggggtgaa ccagggaaac tgttggtcc aagctcgtcc cagtggaggc 1380
 ttaggatagg tgtcaaagac taacatgtta ggccagactt tctataatat accacttcgc 1440
 tttgccatcg agtcacagt agatgaagtt ctagcgtctg taacctgtca tggagtttct 1500
 gctcagatgg tccatctatg tcatactata taatcagata ttgcactggt taagctctaa 1560
 agtttgatat gctaacataa tactccaatc tgtgccacat tcacagagta aaacagccag 1620
 acctaaaaga gaaaaagccg aaggagtaaa caggatgatg tcatacatac agaaaagtct 1680
 taatgttcta gctaggcatg atcatgtatt ttacagcgtc aaattctagt tcaccaagca 1740
 aacaagcaaa accttctagg aacatacagt aatcgagat ctagtatatt atgcgtccaa 1800
 tatgagcgcc ataagccgag ttgcctctat cggtatgttg cgaccagtaa cccatgcgtt 1860
 cccgactgtg ccgattcgga agatgaagaa ctaacctctg aactctcgcc aacatatgag 1920
 cagctcatta cccaaaccaa agcaagaaaa cctctagcca aagcgcaaca caggccgata 1980
 agcaggggtgc gggtccttgc ccgcaaatcc ggtaactggc gcagcatcag gctcagacgg 2040

ggtctgcaga atagccaaaa tcgcgttacg aaaggcctgc ataacaatcc catacccaaa 2100
 cttcaaactc ccgtccggag ccagccagag cccatgtcca aagctgccga cccggggagt 2160
 gttccgttca ttggccatac gctcgagctc gaagagatcg cccatccgca tctggtagaa 2220
 catgcgagcg gcgaaatagt ctccttcggg tttgacgaaa atagcaactt tgtag 2275

<210> 2560
 <211> 1959
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2560

cttcccccca ccacccccct ctagtaaaca ccaccacaat agttctttaa aaatacctat 60
 aaaaatccca ccgtttgtgt ttttagttac caactttagg gaactttact tggcccagaa 120
 cccagttggt ttgtaaacgc ccaatctctt ctaaacaaga gccccataa ttctgggcac 180
 aaacaacttc cgttaaaca gtctaaacgc acaacaaaa cattcatcca atgccagca 240
 acaacctcca ggcaggataa gcagttagt ttttcaagga cgctggggcc gtcaccagtc 300
 cggcgaggta agtagttgtg ccaaagggtt gtttcgatgt cggaatcctc gaacgacatc 360
 cctatacctc gcagacattc tccccgcttg gtctaagctc ggatgacaaa agcgcgtact 420
 acctagtcac cgtggcgcca acactacttg gccaaaccgc cacggcacgg acagaagctg 480
 gagagagtgt atctattcgt gatccaccga atctgagtaa actcagggca tttgtggcga 540
 gtggggagca cgccgttacg tatgggcctg ggacctggca tgcgccaatg gtagttgtgg 600
 gtgaatgtaa ggtggatttt gtggtcacgc agtttgtcaa tggagttgcg gcagaggatt 660
 gtcaggaggt ttgctttggg gaggggattg ttgttgatct gagtgagagg cagcagaggg 720
 cgcaagcgaa gctgtaaaac ttacacaaag ttgcgagtc atcgagatt atggcgggccc 780
 aagaaagagg ggggtccacc ttatgttagc aggatatgta tattatatat caaagtgcaa 840
 attatgacgc agaagaaaag gcggccgttg tcagtcgaga ggcttcgccg cgtatactat 900
 cacgaacgct tcgcgccagc tccagcgtct cgctaggcaa tcccgccagc tgcgcaactt 960
 tcagagcatg tgactcccga tttatgccct tccgcaactt gtggacaaaa gaaaaccgcc 1020
 cctcagtcgt ctcttaacg tcggtgcaat accttcccag cgcaggaaac tcttgctca 1080
 tatcagccag tccgtggaaa tgcgtcgcaa acagtgtccg gcattgattc cgataatgca 1140

aatgatgcag gcatgcgaaa ctaaccgcgg tgccatcctc cggcgctcgtc ccacgtccaa 1200
cctcatccat gatcacaaat gaccttgccg tcgcttggtt gaggatcgca gctgtctcca 1260
gcatctcgac cataaacgtt gactgatcgc gaaagagatc gtctgctgcg ccgatacgac 1320
tgaaaatctg atcgacaatg ccgatctcag cgtagtcagc tggcacaaaag gagcccactt 1380
gcgccaggat ggtgataagc gcgttttggc gcagaaatgt gcttttcccg gccatgttgg 1440
ggcctgtgat aagccagatg cgctcggatt cgccaagaa gcagtcattg ctgacgaagc 1500
ggcggccttg ttcttcaagg ccgagtttca cggttgatg gcggccgccc atgatcttgt 1560
agtttgtgcc ttcagtgagg atgggacgca cgagttgttg ttcggctgcg aggggtggcaa 1620
atgagcaagc gacatcgagt tcgtccatga ctgaggcgtt gcggcgaatc tttaccaggt 1680
tcaagataac ttcgcggcgt aactgctcga agatggcttg ctctcctgc cgaatttga 1740
cctttatttg atccattcgg ccgccgagtt cggccaagc cgggaggtag aaggaccggg 1800
ttgactttgt tgacgagacg ttgcgcgtca cgcctatgtc ttctaactgc tgttgggaaa 1860
cttttgcgcc ttgacatgg catatgtgtc ccaaaccagg cgtccatttg agcgtgatgg 1920
cggaggatcc taagcttggc ccccatagta gtgatatta 1959

<210> 2561
<211> 2518
<212> DNA
<213> *Aspergillus nidulans*
<400> 2561

aaaaaccatc gactcgaagc aactaaagaa atatagcatg aacccctgc ttaatgtcag 60
tttgatgcaa aacactatag tgtgatcgag aatgcgactg acagatagaa ccagagcaaa 120
agactgagta aacagcatca gggccttagt tgggagactt acgatgtctt gtcttcctga 180
ttcggccatg ttagtaataa gtttttccat gtaataaagg taaacagtga atatctctga 240
aagtcttcac atggttgctc acgaaccaga aagaacaaga aaacgtgagg ctcgaggaga 300
agcaagcccc ggggtaagga tgctgtcacg tgatgcgatg tgggcgaatt ccctgaactt 360
cccgagcttc aaatctcaga ttctagtcct gcaattgcgc gacggctctt gaccaaccgg 420
ccattggacc tctttgtttc ttgcctgcga ctcccagggt ctgcactctc atttctctct 480
tctctctctt ccagtgggta tcaagatgcc tgccacggcg acccgtgccg tgctgcggca 540

atcgcagttc ctgacccgga ccgcggtcag acactcttct tccacatctc aagccacttc 600
 taaggctact gagactgcct cttctaccgc ctcaaaggcg cagcagggtc tctctcgtgt 660
 ctcttctctt gccggtcctg cgatctcgaa cgctgccag ggctcggca acacctgaa 720
 gaaagttggt ggaagaaccg gaaaagtcgt ctcttcatt gaatgtgagt gaaactccgg 780
 gatattaact tccacgtctg cggtttcaat tctacacctt tgtgactggg tttcatggcg 840
 taacgacgaa ttggccctcc ttggattcct gaaggggtca tgcctgggccc atgttcatca 900
 aacacataaa agcggatttg ctgactcgtt gttctataat cacagccatg ataccccta 960
 ctatttacta ctccagggtt ggcttgaac ttggcaagct ggtgttccgt ggacagaaca 1020
 tgactcctcc gtaagcgac ccgccatggc atgtcagtcg tcaacatcaa ccatccact 1080
 aatcctatct taggagctct gctaccttcc agtcatactt ccagcctctg atcaatgctc 1140
 ttcgcaaccc tgcttccctt cagaacgcca acttctcgcc ccaaaatata ctagcccggtg 1200
 tccgcaacgc gaacaagaag gaaatcgccc tggccggtgt taccgctgcg gaggtcatcg 1260
 gattctttac agtcggagag atcatcggtc gtttcaacat cggtgggtac cggggtgagg 1320
 ctggccacgg acaccactag atcgatcgca tgcaatatat ctgacctgtc ttttatttcc 1380
 gctatatctt tcctttgtga gctgtactat gtatgataga cgatggaatt aaactattgt 1440
 ctgggttaaa attacctata tgattatttc atgtctgctg ttgcatatct taagcctggg 1500
 ttataaatca tgggtcaatg ttctcgaat agtaagaagc agcgagcacg agaacactca 1560
 gcatgtacca tatctatgaa taatactcgg gctcaatata acagcatcct tgcataatta 1620
 cgtactagac actgatctta tcgagacctt catggcacgt tccagtttgc cgtatactgg 1680
 ccggtgtgga attgcggcga cttgatcgtt ccgcgatctg attggtccgt gcagttagaa 1740
 ttctgggtccc aacttttttt tctgtaagtt tccaaatgcc aacaacttaa tcaagcctta 1800
 gctcgaccaa aatcgccgtc tacaaagaca gataaaccac atgctcaat atggacgcct 1860
 ttaaactgtt gactcgatca actaaattga agtctgctac caccagctct tcgactctcc 1920
 cgtctacggg aaaagcagca aaccgcgaac tattccgagg tgctgcagca gagaagctcg 1980
 agaaggggag tggcaagaag agaaaaaggg cccatgctgc agatgatgaa gcagtagtca 2040
 atgaggatgc gctgaacctg gatttcttca gccagggcag aagctctatt ccgaagagct 2100
 cggatgccgc aacgacaaag ggatctggcg cgccagcagg tcaggaggga gcctctgaat 2160

cggactcggg tgccgatgac gagccaatgg atgaagttca gcgccgaacg attttgaatg 2220
ctcataagat caaggtcact gatatgcgtg acttagaaga gctcgcaccc gccaggttc 2280
aaagtgaaga gccaaagaag aagaagaagc gcaagcagca ggaggaggca gagaagcagc 2340
agcctcagac tcttagtaaa aaggagcaga agaaggcgcg gcgcttggtt ccgcagcccc 2400
ttgtgtcatt catggagcta cgcttcgagt acaaaatctc gcgacggctg gcggagaata 2460
ttgccagcat gaatcactgt tccacttgag tcaggtgggg agcttcttgc tttgggaa 2518

<210> 2562
<211> 997
<212> DNA
<213> *Aspergillus nidulans*

<400> 2562

taagacgcat aataaacgtc caatccaacc tgagcgcttt cactcaaaaa ttctcacagc 60
ggatcagaga gccccctagt aagtcttgct aaggggaaga cttttggcga atcatatatc 120
ctcctaacca atatcgctgg cgtctctcag ggccttatgg cttaacact ggcatagcaa 180
gcttgacatt cgctggcttt gctgttagta agggcgaccc gctcgtggta gctggtcctt 240
gaggatagtg ctcacatcaatt gctcgtgtcc atcacctcta ggagggggcc ggagtttggt 300
agcttggccc atgacccctc tcccggcttt tctctgttga ctgaacgtt gcgcaggttt 360
tgctgttcat tctaagacgt ttcaccgttc acccggtccc gctccgtcct taccctcag 420
atgaatgcat gagattatat gtcacgattg atttctgact tgctaacca ccgtcagtca 480
tatatgtata agcttcgaat ccagcttcc aagtgggtct cctgtatcat atatttgtgc 540
cacaagctaa tttgcgcta tctgactacg tcgaagtgc accttaactg caacgtggac 600
gatgcaatca gaatccgat gtttctagta atgtttttac attaccaagt acctttgcca 660
ctgtcacaac ggaccagggt tgccagcagc atatgcaatt cgaggccagc ccgtccctgt 720
tcaacgggtg aagtctgtta ttatgcagtt cgagcggttg ctcgtattcg gcaaatttcc 780
aacatctcca acgcgtgacg aggaatcctt aggacacagt acctaaatat agaatgtcga 840
ttaagtagca acagcagtggt atttatatgg atttcccata aggaggggtt cgtccccaat 900
agcacagttg gacagagccg ctggttgaaa ggagattctg ggaataccaa gcttcaagaa 960
agcaggtgtg gaataagaag aacaaaatct tgagggg 997

<210> 2563
 <211> 1662
 <212> DNA
 <213> Aspergillus nidulans

<400> 2563

```

atgggctttt ccaagtttcc ctcaagtgtcc tgccagcgcc caccgcggcac aatatatttc 60
gcctgagcct tttttgccag cagaatagcg gagagagatt cgagcagccg catttcgaca 120
atcagtcaag acgattgagg cccagtgatt caattgcctt ggcgtgagcc tccggcaggc 180
cgtttcgccc gcacttatac tgtggggaag caaccagggt cctggatctc atggtcgggg 240
tgaactatcc cgaaaaggcg gggataaatg aagctctccg caatttctcc gaaattgttc 300
ttgggatggc ctgggctcct atgatgttac tttgtgtcgt tcttgtctgt cgatcgttgc 360
ctgatctcgt gattccttgg aatttctccg tggctaagcc cgggtggtagc caggccaggg 420
cattgtgcat ttccatttgc agagtcggta tataatccat acctgcgggc atcgtgaagc 480
tgctagacga actattgatg atgggagtga agagcgtgac ggcctagcgg ttgaacagat 540
gttgaagaag tagaagagga gccgtgttga cctgctatcg cagcctcagg cacaaaaggc 600
acgtgatctt ccccgacccc cacagtctac agtgtagact gacctgcgag cttgtcccct 660
ctgccttctt ggcctatggc cctcgtcctc taccctagcc tgacaaatgt tgataattct 720
ttgatctact ccaggaattt tcaagtcctt attcatgcct ttatcgctta tttattaact 780
tgccctgtct gtctccgctg gacaccactt acggcctcaa tttcagatcg aaattcttgg 840
tgaaagcgac taaatggcag aagaacacat ggctgtcaat aaatattctc tatcaggtaa 900
ggatacgtcg gatgctaagt gatactatct gaacgttggg gtttagaagg tattatctgg 960
tgagagaagt cctcgggaac cattcttcat gattgatggc atggaatcac tgctctctca 1020
tcttattaga ggcaagtgag tactgggtcta gacgtctaag ctttcattga cacgtgcttc 1080
tcttgcaaat gcagatctat gacgcgcacg tctcgatcag gctgtctctt ctctctcgc 1140
accgtcagga atgttattcc catcgtccag aaagccaatg cgattgacac cgctatcatc 1200
gccacatgc ctttcgtgaa cttcggcgcc atatcagccg agtagaaaag gatactccac 1260
caagcgttga cggcgttgct gcccatgttc atggaagcaa tcaccactga tcggagccgc 1320
tcgtccttgt agcgcacgcg atcgttacac cagcгааага acgtggcctg acaggcgtag 1380

```

accgcgccgg cccagtagta cgcgccatt actgtagccg tggagtcaaa gcaggtaaga 1440
atcattgccg aggtgacgac tccagtgatg gcaataaagt acccgaccag gtaccttttg 1500
ccgcccataa aatcgggtcaa cgtagcccaa aatagggtcg atactattcc caccgccggg 1560
atgcctgttg gatagttgtt cagttgtaag aaagtgtgag agtttgtcgg gtgggactgt 1620
aggtatagag cgagcagtgc gttcgtcagag aaatactcgg tc 1662

<210> 2564
<211> 1138
<212> DNA
<213> Aspergillus nidulans
<400> 2564

accctggagg tctcgtcga ggcgcgaagc gatttcctca ggctcagggg gaagaaacgg 60
caagggtccc taccaccgg catcttcatg tccggccgat cttgtccaga cgaggacggg 120
ccacctgtcg gtctggagcc gtggaactgc acgacatact tgtactcggc ggctttctcg 180
gcgctgactt cctggatgtt gctgccccag gggctgcaa cgttgccgga gtaggtgaac 240
ttattgccag tgatagactg cttagtacgg ccgcaaaac cgtcgaagca gaactcgcca 300
ttagagggga agttggtcca ggccgagtg tccagcggag tgctgggtgg cgcttcagtg 360
gaggtaggag cgacagagct ggacgtgggc tccgggtccg gtgctgggtt ctccgtcgaa 420
gcctgggtgc tgggtgctgg ctcagcagga gcctcagtgg aggtaggaa ctcctgtggc 480
gacgggggtt cgctagggat ctcaacaaac gtggctggct ggggtcgggt gatggaggac 540
aggggtgctg tgggtgcagc tccccacgg gtctccgtca cggtaacggg ctccgagtca 600
tacaacccgc ccacctctg ggcagcctcg ttacggacgc cgtgtcgggt tttgtggcta 660
ccgtgcgaac gggccagagc cgacccggca gtggcgagag taaaaacgag cgacttccac 720
tgcattgtcg gtacgcgatg gagcaaattc acatcaacgt ccgataataa agagcgtaaa 780
cagctgggtt ggctgggtgg aatagggtgaa aagagtgact ggttgggatg cgaagcgaag 840
ggaaaacaaa aacgagggga tcgcgcgata aaaggggaga cggggaagag gctgagggag 900
agcgggtggg gggccccggg gcagtgtgca ggaaaaataa gaagatacag agagcagcgc 960
tggcttggtc cctagtgcc agatcgaatc gttagtgcg caggtagcag ctaaaaggtc 1020
gtgttaatta aatgggccgg tggaaaccaa ttgaagtctt tcttgagtcg gtttgacaag 1080

aactatgtga aacgccacgc caaacgcca agtcctcacg ctcatgggca caagggcg 1138

<210> 2565

<211> 1743

<212> DNA

<213> *Aspergillus nidulans*

<400> 2565

aagtgttct cctacttcta ttgcatcta ttacagctg gtctaataca acttggttaa 60
tccacaactt gggctagtgc cttagtaatt tcttacctcc aagagtctcc tgggtttaca 120
acaaaggcag cacgtagagg tgccatagac ccgtttcaga tacactagct actgcaactc 180
gacatcttgt ctaaaagaaa ccttgactaa cgcctatttg tatgggattt cgatattcta 240
cttatcgagt ctactctcca ccacgaatg attaatacacc attaatacag attgatttaa 300
gcctatcata ctttactcat ttgtcttcc ttactagct tcgagaataa gccttgccac 360
tgaaatacgc ccatcgatga catcagactc aaaataagcc tttttgtctc gaaacatggg 420
cccagttcca ccagcccctg atagctggag cattgctgac cgtaagtcc gtccctgcagc 480
acgtgtagcc ctggaagttg tggatacatt ttccgttcca tgtactgcag aatggaggaa 540
aaatatcaga aaggaacaaa aaagtcgaaa atagacttgc ttccgggccc acaacgaccc 600
atttcggact taattatgga ccctagatac tataaccgttg gttgagccag atattgaacc 660
gtcttcgatg acattctagc gggccgatcg gttctgatct gatcactcag catgccgaag 720
ttttttgatg agccgtggcg agatgccgag aaattgcagc tataagaagt ctttgacagg 780
caggttgagg accttttgag aatcagtttt ccaattgtat tccttgatac ccctataagc 840
caatcacatc acatcacatc acatcacaat gtccaccgac tacaagttcg aaggatggct 900
tggccttgat gccggttccg ttgatggcaa gatgcagtg aaggagtgtg agccaaagcc 960
ctgggaggag accgacgtcg acatcaagat ctcccactgc ggtatttgcg gttcagacct 1020
gcacactctg cgcagcggat gggtatgttc tctccactcc tgccctcttt ttgcctttca 1080
gagatctcga gactaacaat cgtgatcata tagggcccca caaactaccc ctgctgcgtg 1140
ggccatgaaa tcgtcgggtac agctgtccgc gtcggctctc aagtgaagca catcaaagtt 1200
ggcgaccgag tcggtgttgg cgcgcagacg tagtcctgag tcggccgcaa aggcgagtgc 1260
aacgaatgag caacctccaa cgagccctac tgcaccaaac acttcgcccg gacatacaac 1320

ggtggttttca tgaacggagg caagtectac ggtgggtacg cctatacaa ccgtctctcc 1380
 gcgcacttcg ccatcaagat cctgacgct attccctccg cccacgcggc gcccatgatg 1440
 tgtggtggtg tcaccgtcta ctccccgctt aagcactacg gctgcggaacc tggaaagacg 1500
 gttggtatta ttggaatcgg tggacttggc cactttggtg tccttttcgc taaagccctc 1560
 ggtgcggaacc gcgtcgttgc gatctcgcg aaatcggata agcgcgccga tgcgctgaag 1620
 ctgggcgcag acgagtacgt cgcgaccgcc gaggatacag agtggatggc gaacaacaag 1680
 cgctcgctcg acctgattgt ttgcaactgt tcacatccg agatgcccat cagcactacg 1740
 cga 1743

<210> 2566
 <211> 1112
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2566

acggatgatt cacaatgcga tccataatag gggctagccc tctttttgac agagaattcc 60
 ttcacccgat acccacattg acataggaac tcgtcctcat cgctcgatttt gacgttcttg 120
 aggttagatc gcagggacat gtcagaatcg cagactgac acgagttcag gccatgaagc 180
 ggccaatgca tccaggagat gattatcgcg gegaacggac ggtcctgttt cctggggaga 240
 cgaatcgacc ccattgctgc gtgatgtatc aagtgatggg ggggtaactt gcagcttccg 300
 cagccactcg ttaaatgctt atcttctctg cagtagggca actggtgaag ccttgagacc 360
 ttcttattta ccgtctcgtc ttggagaatc caagggaatc caacagccga ttggagacga 420
 tgaaactact ggccacggc atcaattgtc ataagttggg ggcaaatcat tcaggtacag 480
 tgggagcggg ccatgggtat agatggggca gcaaaactgc gctaaacctg acccagcaga 540
 gctagcccaa ataatacgtt aaccgtatct gtgggcggta catacattct gccgtcgata 600
 tcaatatctt ttcaactttt ttctcggact tgctttggat agccttcaag ttgaattggt 660
 gcacataccc aaaatgcgcc cctcacaga agaagagacg cagacgctct tcaagaagct 720
 tgccgagtag tgcgggtcag gcctgaagga gcttatcagt atgtcttgct cgcaaaaatc 780
 gttctccagg taaatctaac aacagcttag aaccgcttga ttcttctccc aacgccgac 840
 gctatgtctt ccgactgtca ggcaaccgtg tctattactc cctcttgctg atagccaacg 900

cagccaccgc atttcctcgc gatcagctcc tctccctcgg aatatgcatg ggtatgtacc 960
 gatagactcc cgtcgaaact tccgccgttc catggcccag cagacttata ctaacgtcct 1020
 ctcgctgcag gcaaattcac caagactggc aaattccgcc tccacataac cgcgctcccc 1080
 atcattgctg agcacgcccg aaataagatc tg 1112

<210> 2567
 <211> 543
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2567

agaaagaagg attattgtta taaggaagtc ttgtaggtgg ctcaccgcct tcaggacagc 60
 gcaggccttg gcgagtcact aaggtctaag gtccttgtat aggcaaagga cccataacaa 120
 aaactaggta aattattata ttaactaata tatagagcta agctctaaat atatataaaa 180
 atataattat tagtaaatac aatatattaa tactaagcta tcctagaagt agttttactg 240
 attttttagt attagtaaaa aatataggat tattaagaag gatatctata atatagataa 300
 gactagtttt tagataggta taatattaat tataaagggtt atttacagag tagatactag 360
 aaatagttat actaaataat ttagcctaga aacaaaaaat aggctactat aattattaag 420
 taaatatatc ttgataggcc ctactattat attatattct ggctatagac aattattaat 480
 cttagtagta taataatact aagcaactat taactcagta ttaataagaa taaatagata 540
 tta 543

<210> 2568
 <211> 2560
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2568

caacactttc tgaacccttc cagccgtgga ttcggcacca caacagacgt gatctcgttt 60
 acgatatatt tctgtacgac ctctgtcccg tcacgggagg aatgactatt cgtgatatcc 120
 acagatacgc taattgtgtc agacgctgtg acgtttgttt tcgatagcga cacctcgccg 180
 taagtgaagt tcacatagct gagtccgtgt ccgaagggga accaggggtc agggctgccc 240
 aggacatatt ggtgtccgaa gacgagggtg ccattctcag cctcatatcc ggagtctccg 300

attgaacggc cagagttcag atagtcgtag tagatcggca agtcaccgac gtaccgggga 360
 aacgagacag agagtttgcc ggaggggtta tagtcgccga acagaacgtc agccagtgcg 420
 tttccgccct gttcagaggg gtaaaactgc tggaccagcg cactggccga gttcgaaagc 480
 caggctctctg tgattggttt cccggaacta aagacaacga cagtcggttt gcctgtgtcg 540
 atgatggctt tgatgagtgg tccttgggcy cgcagaggg agaggtcatt aacgtcgacg 600
 tgttcgctg ttgtggcggt gaggccctgc catagctcct gctgatcgcg ggaccaggtt 660
 cccacgacga caattgcgac gtcagacttc tcggccgcyg cgatagcctc ctcgaagccc 720
 gattggtcgt tgcctcagcg ttcgcagcct tgtgcgtagt ggacggttgc ggagtcccca 780
 acgaacgcct tgatcccgtc taggggtgta actcctcggg attgactacg gtagacgacg 840
 tagtcaccat actgctatgg ttagctaaca gaaatggcac gagaatgagg tagacatacg 900
 ttcatatagc catgtgccat agggccgata actgcaatgt tccccgtttt cttcagggga 960
 aggatgttgt cgtggttttc cagcaggaca atggattctt tatcgagttg tcttgccaga 1020
 tccacggctt ctttgctatg aatgagggtta tcccactcct ctttgggagc accggggtaa 1080
 gggttctcga agagtcctag ggcgaatttc gagcggagga cccttgaaac agccgtatca 1140
 acggctctcaa tatcaagttg accagattcc acaagttgag ggatggttcg gaagttgctg 1200
 gcaagcaatt agtaccgtta tttatcgaac gttgagggca gatcatacaa cgaaccacca 1260
 cccatctcca catcgttacc agcgggaagg gcttgagag ttaccgattc cgaatcaatg 1320
 ggggagctct cgcaagtgtg gaaggcggtg catagtcggg cagtcgctcc ggcgtcgctg 1380
 atcacgaagt actcataacc ccattcttct cgaagaatct cagtaagcag atggtaatcc 1440
 gcgacagcag ggattccgtc gtagcttcag ccaaacaag ttagacgaca ggttcagctt 1500
 tgaatgggat aaagaactta cgagtataa gcgctcatga cactataagc accagcgtct 1560
 atgatggctc gcttgaatgg cggtaccag ctgatatggg ttaactcaa tctcttaaca 1620
 acgatggcca atgacatacg tggcggaag gtatcgctct ccccggtgaa caggagcagt 1680
 gttgataccc tgctccggct gactgaatcc ggcgtaatgc ttcacctgcg ctgatacatt 1740
 gaggctttgc agacctgtaa cgtattggtt tccaatttcg cgggcaagg aggggtcttc 1800
 cgaatatgtc tcttcaacct gggctgcatt agaaccgctg tacctttatg agtaagggtt 1860
 tggccttacc cgaccaaact ggatgctcgt gggcgagggt cttcatgcgg tgttcaatta 1920

ggttgatta tctccttaaa gcctcgatct tactggttta tgagccgac acttttcctt 1980
 tattcttctt tgtttttggt catgctctgt agctggtcac atttgttgct ctagctacta 2040
 gttttttata tccactcttt cttgaactat aatctccttc tttttttact atttgtttct 2100
 tttataccta tcttttaaatt ttattttatc tatatattat tcattactat ttttatattc 2160
 tatctatcta tctctgcata ttatcattta tatctctctt tcatattttc ctgtcatctt 2220
 ctttaactca cacttctctt ctttatcatt tacttaaact attttcctta tacattctag 2280
 catgttttca tttacatttc ttcctatcat ttttttatat cttttatttg tccactattt 2340
 ataattttac atatccactc aattattcta tcttcttata tatcaattct tcttttatta 2400
 ttgttttata ttcttctttt ttogatttaa tttctctttt ctatcattat cttccatatt 2460
 cttattatca ctcatatta tacttacatt atcctctatt ttacttattc ttttctatta 2520
 tacatttttt atttatctca aatctaattc tatatctctc 2560

<210> 2569
 <211> 433
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2569

aaaattaaaa taactaagta tatctaccta gtatatttat tattttattaa gatatttaatt 60
 catagcaaag tactatagat ttttataatt tataacaata ataaagttct ttaaacttat 120
 aagctctaatt ttctaagctt ttaagctatt aataattatt aattattttt tattatagat 180
 tttattgtta tattctgcag aagagttctt ctttaaatag tagataccaa agtatattat 240
 cttattatta ttttattata ataattattct tctagtagcc tagtttatat attagcttta 300
 aaggctattt cttagtcagg aagggttttt ataaatataa aaatattata aatatttatt 360
 ttagctattt aaactaggag gtatacttct tagtctataa aaatttaata tctttttata 420
 ttaaattaat aag 433

<210> 2570
 <211> 1939
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2570

accgttctgc taaggactag ttacctcaga agttgttcgc cttactatgc gcggatccgg 60
 ctctgagatg acgttgaggc ggaggagacg aaatttccag tggaaactgt ctgcatcgcg 120
 catgggcgtc ccatatgagt actttatctg ttctaactcg gattcgtata tctcgctctg 180
 ctgggctttt gatttttctt gtacgtcgaa gattccgtcc gcgaatttga cgcacagttt 240
 gttggcgagt acaccttcgt ttaggggtcca aagtcggcgc atccaggcgg atagtcggat 300
 ccgcatgaac gactgtgtat agtcactgga cgagaacgac tggatgtcgc cgtctagcac 360
 cagcacgcgg aatgcccgtc cataaacagc tttcatcgat ttaatggcta cagagcgtac 420
 tcgcggtgct cttggggcac cggaatgcac attgtgtcca tccagaatag tagcgagggc 480
 ccgtggaact ttttcttcca gagttctcta aaagccagcc ggttgacaag gtcaaccgat 540
 cgaatcccag agactaactc atctagtaag ctctgaatgc gaagcagctg gcactgcggc 600
 agagtatttg cggagggatt cccaagtcca tcggaccaga catgtgagaa agcgatatac 660
 ctcttcctt cggtatattt ctcaacttcg actttgacgt aggggtgcctt ctttattggg 720
 gttatggaca acagcggcac gccccggaa ccgatgatgg agaccacttc atcaatcagc 780
 ggcccataat gttggcattc gcagtcagaa gaagtgtgag cagtacggta cgtctcctcg 840
 ttaagttgtc gcgccataca caggctcctc gtgcacaaac tatgggtctt tctgtctgca 900
 gacggcggac tctcaagttg cgatgtatag tacgccgacg cagagggtgaa tgtttcttcg 960
 accagggcga cttcactagg acaccatccg gattcctgta agcgcttgag aggaagccat 1020
 gcacagggaa attctagccc ccgggtgtcg gaaccaaaga ctaaaggcat tacgcctgtt 1080
 gagaagctcc aggacagacg ctgactcaac gtccttattg agagatctat ctctggcggc 1140
 agtggccaag tggtagagccc cgggcgtggg tcctcctcgc actttgcaat tcgacaaaac 1200
 cgggatacgg ttcgaagaca ctgttcaata cggcgaccga tctgttgccg agtggacttg 1260
 tctcgggtct ggagaatgga cgagataaaa gatgtgagtt cgaggatacg ttcttctaga 1320
 ccggtaacag atatgactcc atttgggtga ttttgttggt cttcacata gtaatgcttg 1380
 cctcctttgc tgatgggacc aaatacttcc caaaggaccc caaagaagag ccaattctgc 1440
 aagaagggcg ctgcatcttt atgccctgtg aagtcgccat taaacagccg ggtgatgtcc 1500
 caaccttcat gctccgggta ggtcaggaaa tcgtgatgct cgtacggctc tttgctgaga 1560
 caaggcactt ccagaaaggg gtagggcgaa tccggaggca actctacgta gtccatggca 1620

agacttaaac gtctgaagta ttttttaggtt gatgaggaga agaaagatga gctgaactgg 1680
tagttgttgg gcggtaccag ccccgccact attcactttt taaccaggcg gaggttttgt 1740
cccgggcaca acgggctggg ataaccaac caatggaaaa ttctcccgac ttgtatgggt 1800
ggggatttag gtgcatacca atttggggcg aacggtttat tccacgtagg cgagggatta 1860
aaagcttttt aattgatatt ttcacgattt ggagtttttag ggcttttggg ttccggcttt 1920
tttttggttt ttgggtggc 1939

<210> 2571
<211> 1707
<212> DNA
<213> Aspergillus nidulans

<400> 2571

ggtcgagact ctagtccggt atctacctct atctccaatc ctatgcctta agtgcgaaa 60
ggatagtgtc ggcagcctcg ctggttggtc tcttagcttc ccgtcttttt ccgccccggc 120
gccgcaaaaa aatccatttc cacttcacat ccacctcac acacttgagc tctcgtttgc 180
caagcttctc tttccaattc ttggactacc tggccggaat gtcgtcagac cagaattcag 240
taccttgagt atctaataga taatggcaga tgaacatcgc ccaactcaagc gcgttcggca 300
agcttggtgaa ccatgccggt tgggtgtcac attgttatgt cgcgtcgatc atgcggctta 360
tgatgaagat gacggatgac ggtagtgacg ataaaatagg cgaaaaaagt cgcgatgtcc 420
aggcgagaaa ccagtatgct ccttttgcca gcggtgggt cagcaatgtg tttatgcacc 480
ggcgatggg cctgaattgc ctgccgtga tattgtatgt cttctaactg cctctgtcga 540
aatgcgtctg gccgatactg atgattgctg ctcggtaggc taaacgacta tcaagcgttg 600
aggacaagct ggaggagcta gctcggaatc tcaggtagat tttctccaac ctgcaattgc 660
aatagatcac ttcgagttag ttatcaacct gttctgactc gtcaatagac cgcactccac 720
gccggctgaa gtctctatct cgcaatcagc gtcgtacag cataagctac caaatctcca 780
gcagaatgat ctctctaccg ttgcgcactc gttcctaaca tgctgcaact atcagcctct 840
cccgtcttc catccagata gcttcgttga gaccctggag agtcgcgac cggagctgat 900
tctcgcgac cagctatta gtcttcggtt cgggcgtagt cctgatggta gcgacttgcg 960
tccttatatc acggactgtg cgcgccgagc gaggaccctt gtcatggagc gtattggtcg 1020

agggcctctg gagctgtcca ctttgcagac gctttgtctt ttggcattgt ttgattttac 1080
 cggtaccaac cctgatgtgt tcctctctct actcagacca tgctgttga cgtgttaaag 1140
 ctgggtgatac gggtcaggct ggggtgcac tcaatatggc gacgtatctg gcgcatacg 1200
 ttaatactgc gggggaaacc ctaggagcat tacatccgga tccggatgag aagcggaggt 1260
 gacattggag tatacactta tcattataac cccaattcta tcattccctc ctcaatttcc 1320
 cttgtcatct ctaccttta tactcttctt ttcatctatt tttctcctta cttcaatct 1380
 tatcattatt ttataaattt taaactctca ctctatttc attctatata tataccatct 1440
 atctctttca cccatttat tattaactct ttgcatttac ttttcgtagc tctcttcttt 1500
 caacttctac ttatttatca ctattattat gatattttac atcttaattt tctatcttac 1560
 ctaatctaac ttacgtacct ctctatccta tttctttccc ccttatagtc cttcttaata 1620
 ctatcactct ttactatttt attttttctc atctaacatc tcataatttg tacctcccct 1680
 catattatct cttcactac atattct 1707

<210> 2572
 <211> 1604
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2572

caattcgcat cttecgaccgt ggggattggg actcagccca cggcaaagaa gccgaattca 60
 tcgctcgac agtctacaaa acaacctctg tccttcgtaa tctcgccgc agcgaaacgg 120
 gcggcttgcc gtccgtcaca atgagcatta ctgtcttcg taatttttta cgtgaggctc 180
 tattccggct aaataagagg attgagatct ggggctccgc cggcacgggc aaagggcact 240
 ggaagaaggt taagcaggcg agtcccgaa atctgcagga tgtggaggag gaattagggg 300
 caatgggtat ggaggaagt aacggagcgc ccattatcat ggcagtgaag cttagtcaa 360
 aggcggggga ggcgcgaaat gtaggtgttt gttttgcaga tgcaagtgtg cgcgagcttg 420
 gtgtgagtga gttcctggac aatgatgttt actcaaactt tgaggcgctt gttatccagc 480
 tcgggtgtgaa agagtgtctc gttgtgcagg atgtcaatcg gaaggatgtg gaggtggcca 540
 agatccgagc aatatgtgat aactgcggga tagcgatata ggagcgcccg gcatctgatt 600
 ttgggggttaa ggatattgaa caggacctta caaggttgct gagggatgag cggtcggctg 660

ggacactgcc ggagacggag ctgaagcttg cgatgggcgg tgcggcggcg ctaattcggg 720
 atttgggcgt gatgtcggat gcgacaaatt tcgggcagta tcaactctac cagcatgatt 780
 tggcgcagta catgaagctc gatgcggcgg cattgagagc tttgaatctt atgcctgggc 840
 cgagggatgg atcaaaatcg atgagtttat ttgggctggt gaatcattgt aaaacgcctg 900
 ttgggagccg gttgctggca cagtggctga aacagccgtt aatggatctg gcgagattg 960
 aaaagcggca aaggcttggt gaggcgtttg tcgtgagcac ggagcttcgg cagatgatgc 1020
 aggaggagca tctacgatct attccggatc tgtatcggct tgcgaaacga ttccagcgaa 1080
 aacaggcgaa tctggaagat gtagtgctg tgtatcaggt tgctattcgg ctgcctgggt 1140
 ttgtgaactc tctggagaat gttatggatg aggagtacca gacgccgctt gagacagagt 1200
 acacggccaa gctacgcaac cattcggcga gcctggcgaa actggaggag atggctcgaga 1260
 cgacggttga tctggatgcc ctcgagaatc acgagttcat catcaagccc gaattcgatg 1320
 atagtctgcg catcattcgc aaaaagctgg atcagttgcg ccatgatatg taccttgagc 1380
 ataaggctgt cgcgagagac ctagatcagg aaatggacaa gaagctgttc ctggagaacc 1440
 accgcgtgta cggatggtgt ttccgtctga cgcggaatga ggcgggttgc attcgcaaca 1500
 agaaggccta ccaggagtgc tcaacgcaga agaacggtgt gtactttacc acatcgacga 1560
 tgcaatctct ccgccgcaga tcatgatcag ctctctcca acta 1604

<210> 2573
 <211> 3838
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2573
 ataaaagcaa cgatttctgc attttcagcc cgcccgaact actgtagaca acaagctttt 60
 gaccatcctc aacattgaag aaacttttac cccgattctt cttaggaacc ctgcccgga 120
 ggtagagcc tcataaacca acctctctca gaaccgcagc tcgtatcaat gcgacgcaaa 180
 tgattaaacc actcgggcag gtcttatcca gaagccaaag catggtcgcc caattaaac 240
 caaagtccg ctccgaagta catttctcct catctttcgt gccacgcgcc ttaaaagcgt 300
 tgtactttaa acagctcacc cgtaaatac gtttacgctg actaccctca gccaaaagta 360
 agtagcaaaa agggaacgca cttaccagat tctctccctt ttgatcttc agactatccg 420

cgataccgcc aagggttcaca catccaacat aaccgccaat cttgcggcaa atgctgcacg 480
 cgcagagctg gtaggggacg ggtgtcgacg agtcgaggaa gaattcgacg ccgccacatt 540
 ggcagcttcc ttcgagcttt ctactattgt tagttataca gtaacttata ttcagcgatg 600
 tgatgagcgt atggtactag tattggcgcg attgctagtg atgtcttcga ggtactcaag 660
 ctggggtaac gcagtgggac cttggacaaa aaaacttaca aaggcatatt atgattgggg 720
 tagttgatgt ccaagtagtt aattggatcg acgagatctt attatgtccg aataacctca 780
 acaatgctca ttgaaggaag ttcgatctca aacgaagagc ggagtgaat gctcactact 840
 tatacccaat ggtatggagc acagaatcgg actccctctc catcccaccg gctcctgctg 900
 cgtaagagaa tcatacccg tctgactccc agatgagggg tcaatcgatg cagaccacca 960
 taatcctcga tcttgattgg atttggttac atacatctga cgtttcggac gttgtctagg 1020
 aaataagtgg atgtttgctt ggtttgtcag tgtttggaat gtttgtctg tttgtttctc 1080
 gacagtccgt tcgatgtctt cgccgcgcc tctgtcgcaa tttccgaaga gcaacccgaa 1140
 cgaatttccc tcttcagctc tagattattc agaatgagct ttggaagtcc cgggtggcggc 1200
 gcgacaaatg tcaaacctac accgtaagtt ctttgcttct gcagtccagc ccgtgtcagc 1260
 ccaatgcaat ccagtatatt tatccgcttg gaatggttga tcagctaacg tttctacttg 1320
 ctatagtccc gaacgagga gctttccgct agatcatgac ggtatatgcc tccctaccag 1380
 cctccaaaac tttcagtcaa tactttccct tgcgaaccat ccgtcctaag tgcattggtta 1440
 agtcgacgaa tatggatgcg ataaccataa ccatacccaa tatctaacca cttaccatcc 1500
 attgacccca gtcgtatgag accgaactct aacacggctg tctgtcacag gcgaatgcaa 1560
 acacctaatt caatcatacc tcagatgect caaactccag cgcggcgta acgatgagca 1620
 gtgccgtcgg ttagccaagg ggtatttggc ctgtcggatg gacaagtgcg ttcctaacc 1680
 tgttctgttc tactccgatg aggttgtttg cttactgaat tggcgtttcc tgtctgtgta 1740
 ggaacctcat ggcaccagat gatttcagaa atcttgggct tgtttttgag aacgacggcg 1800
 atgggtcaca cgcacaagca caggcacaga cacaagtaca gacacaaagt gggtcgagtt 1860
 cgggttaata gcagatttgg ggttgcatg aggctttggt ggaaagcttg gtgcacgggt 1920
 gatgtttact ggtactcccg ctttagctcg cgccttgcat gacatggcgg gctgtatgag 1980
 gtcgatgagg tcgatgaggt cgatgaggtc ggtttaaaact gtacattaca tgtatcatag 2040

ggttggttttt ctctgtatct catgagttat gatattttctc ctacctcctg cagtgtacta 2100
 aagttaccta tacggactga aactagatga aagttattaa ggcaagataa ggctctggat 2160
 tgtacgggtgc taccggaagt agtcaaacag ccgtacttcc attggaatca attggatgct 2220
 atgtgaagaa atacaaaact ggtcaataag tcaaaaagcc aaaagggtatc gtcctgcaca 2280
 ctgatatcgc cctaagcaaa atagtagttt gcacatccct gaaccggcta gttatgtctg 2340
 gaagcggcgt gtagaacgag tacgttgccg acagttctgt tttcgggtgcg caccattgcc 2400
 tcagcaactg ctcttagtac ccaacgtgcc tcaggactaa cttcatcaga tgacgctgga 2460
 tcgatgtcta gtgtctgac cacgtagttg ttgcgtcgtc cgactacggt gacgttcccc 2520
 ggtttttgag gccgactggg ccattttgtc tttaacggcg tcgattgcaa tctggacagc 2580
 ggcagccttg tccttcgggt tgacactctt gaaaaccaca cgtgaggata atgcatctgg 2640
 tagggaatcg cggaggggtg caaagaagac aaggctcgac tctgggttga agctatcgaa 2700
 ttgagtatcc gagcgagatt cgtgctgttt aggctgggca ataactttgc ttgtctgatt 2760
 ggtcgggaca gggagttcta tatggatgat tgtagctgtt acctgggtcat tttgcgctag 2820
 ctgaaggaca aactgaagcg catatcggtc gtcgtaccct ccgaaaaaag gcaggacaat 2880
 gtgatgagag cgggtagctg cagggctaac ccacattgca cttccaacgc ttctagcgct 2940
 tagggttctt tgcaaatcgg ggcgggcttt ggcattgcga gtgtacatgc tgcgctcgac 3000
 gagaacgcca acgttgcagg aactttcgtt tagtatgcta gacacgaaag cagtataggg 3060
 cccgttgga aaccgatttc tctcatccac gtctaaccgc ccttggtgct cacttaaagc 3120
 accggtctcg ctccagggga tgagaaggag atcagtgggt ccctcgcgcg ccattccaag 3180
 cacagtatct gcgtatgagt gtcggggcac caccgacaca ccagccataa ttgagatgtc 3240
 gtgccattgg ccgaatgcgc ggaagggtatt aataaccgga tcccacaagg aatgttcgtc 3300
 gacctcgga actttcatca cactagagtc tcgatctgtt agtccatta aacgtattcc 3360
 atgcacttgg agtgatgaat caggctgaat gtcagctcca gactcctcag ctgcagcttc 3420
 cggcgctttt gtactctggg ctttctcagg atggaccttt ggagttggag gtcggtttgg 3480
 actgaggagt gctgcaagtg tgcaaatact agaaagtccg tcgagacgca gataggccaa 3540
 aagcctccga acttggcgag actgaagttg ctctttgggt gcggcggcaa tgctgttatt 3600
 atcgcttggg tggattgggg ttccatccca gtcgatttct ccgcggcgcc accgatcgac 3660

tttgtcctgg taccatttgg ggtatatata tgtgggtcaat ggagtagtgc ccaatgtcgt 3720
 cacgagtgcc ataaccacaa atatggtgaa ggttcgatga ctcaagattt ctgctttag 3780
 aaaaatattc tagccccttg gtcagtaaaa ggtgcataat caccagcggt gttctcca 3838

<210> 2574
 <211> 2618
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2574

agagcggcag acaagcgcca gaaggctcaa gagcaacacc aactccaagg cggcgttgtc 60
 cagagagatc gatcaccact cgctccggct cccaccccg atctctggtc tcatctccac 120
 gcagagaaca aaacagcggc cttctactgt ttatcagttt actccttcta gtgtttacaa 180
 attccactca tttaaagaaa tcctcggtgc ctagtgttc cgaccagcaa ccctttgctt 240
 tccgccgtat ctctcgctct ctccaactcc ccgctgccgc cctttctctc gtcgcttgcc 300
 tctgaaacct gcggccctgg ctgaagcact tcgataaaat aatatacgag cgcttgata 360
 aatatagcga gaatgagcaa taccgacttc cttggccgag caatcgacac ggtcaagaag 420
 gccatcgaga gcgacaatga aggcgagtac gagaaggctt atcagcaata ttactctgca 480
 ttagagttat tcatgcttgc gctgaaatgg gagaagaatc ccaagtccaa ggagatgatt 540
 cgcgctaaga cgggcgagta catggatcgc gcagagaagc tgaagaatca tctagcctcg 600
 caagatagtc ggaaaaagcc gagcgcggtg ggcgccaatg ggaaagtgtc gcaggggagt 660
 ggtaaaggcg ggtatgttct acttatcaat acttcaggg gggtagctgc ggtagcgtg 720
 atgctcttat ttctttgctg gcagaaaaga ggatgatgac aatgaggacg ctgattcgaa 780
 gaaactgcga tccgcccttg ctggcgctat cttgtcagag aagccgaacg tcaaattgga 840
 ggacgttgca ggtctcgagg gtgcgaagga ggcgctgaag gaggctgtca tccttcctat 900
 aaaatttcca catttgttta cagggcgacg gcaaccgtgg aagggcatct tgctttatgg 960
 gccaccgggt actggaaagt cgtaccttgc taaggctgtc gcgacggagg caaacagcac 1020
 attcttcagt gtcagcagca gtgatttagt ttcgaaatgg atgggtgaga gtgagaggta 1080
 tgccgccgaa tcgtcgacga cagttctgcc gctaactgaa acctcatagg ctcgtaaac 1140
 agctcttcaa tatggcccgg gagaacaagc ctgccatcat cttcattgac gaagttgatg 1200

cactttgcgg cgctcgtgga gagaacgatt ccgaggcctc tcgccgcatac aaaactgaac 1260
 tgcttgtcca aatggacgga gtaggcaacg actccaaggg cgtccttatac ttaggcgcta 1320
 caaatattcc ttggcagcta gatgcggcca tccgccgaag attccaacga cgagtgcaca 1380
 tcagtcttcc agatattaac gcacgcatga agatgttcat gctagctgtt ggctcaactc 1440
 cctgccatat gacacaggcc gactaccggt cactggcaga gcagagcgaa ggctactccg 1500
 gcagcgatat cagcatcgcc gtccaagatg cacttatgca acccattcgt aaaattcaaa 1560
 cagcaacaca ctacaaaaag gtaaccgctc ttgggtccaa ccctatcagc tcagaactaa 1620
 ttcaggtccc aggtactgca tgaagggtcaa gaaaagctaa caccatgctc ccctgggtgac 1680
 aatggcgcca tggagatgag gtggggagaac atcgaggccg accaattact agagccttct 1740
 ctcgtgctca aggatttcat caaggccatc cgcaattcac gaccgacagt tagccaagaa 1800
 gacttgaaga ggaacgcgga atggacacaa gagttcgga gtgaggggtgc ttagccctgt 1860
 gcacccttct gagggcccat cccgtacccc atgtccgctt gaatccaata gactatgtct 1920
 ctaaacgaag ccgctgtcaa ggtcccgtct tgttgaaatt cgcagatgct acacgtcttc 1980
 ctcataacgc gcgacttaaa tgaccgcat ataaatacct tccaccattg accatttatt 2040
 ctttttaag ctgttttccc gttccttcat ggatgctgct ccccccccc cactttcac 2100
 tttacatacc gattgagcgt tattactgtt ggatgagact acttaggcag gcgaggcggt 2160
 atatgtatga cttctatct attcctacta ccactgcttg tcgttccggt tcgctttgtg 2220
 gcgcatttga acattgtcta aaaatactgg cattgacaag actttgtata cgtctctctg 2280
 cctctcttag gtcattgatct cgcgattggc cagatgcact ccacagtgcg ggttaacacc 2340
 ctaatgttct agatgtaaaa cagcaggggc acagccgcgg gcccgacttc cagcaggtgt 2400
 tggagtcagg taggcagttt caaatctctc agtctatgta tacagcgaac gtccaaacaa 2460
 agtcctggt aagcacccat gagctctcct gaacagaagg cagtcaccaa tcatgtcatg 2520
 cagtcctaaa agccgcccac tctacagaca aaaaggccaa agccgacaaa ccgcaaaaat 2580
 cgctggggaa tcacttgcaa aaaaaacaaa agaagtgt 2618

<210> 2575
 <211> 1253
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2575

caatcatacc gtaaagccgg gcctttctgt aagccctgaa tcaaccggga agcgcttctg 60
gcgttttcag atcccttgtc cgttgtgaaa gtcctgcagc atatcgcacg cggtagacga 120
gggacagacc ttagacgctg ggcggaaaat tgacgcagag ataatcggga agccatgttg 180
acctcaggtg caatgataaa agaaagttcg agttcggcag gtgttgaggt attcgggtga 240
aaggatacag tctatagaga ttgggagaag tgaggatatac ctgcaacagt gaagagaagc 300
tagtccagtc cgggccgaga agtaccggaa attccctcag caaggaagct cccgtctgaa 360
ctcggcaagt gacggattat cattactacg gaacttcggc gtgccaaaga aaccaattta 420
gcataatcta ttcgtgggat accactccgc aaaggtcata tcaagccatt atcctggcgg 480
tgtcgttaat ccagaccggc ccggtcacat ttcatttcag tattgccagg gaatttggt 540
cattatgtcc gtcaacgctg tcacgtaagt tgccggtaaa tgaatgggtt cgacctgcgc 600
tgacttcgat tttcatagat ctctctaccg gcgttcgctg aagctcgccc tggactgggc 660
tgtccacaga catatctgga ggggacaggc agtttatatc cgatcccttt tcgaggccaa 720
taagaacatt cgcgaccccc ggcaacagaa ggtacgtgac atgaccttcg cagccgctga 780
ccgctccgtc gaggagcact cgctcaccag cactgttagg tcctactccg agagaccgaa 840
aaattactcg aaacatggaa gcacctcgat ccctaccgtg caccaacggc ccctgggtggt 900
atgtttacaa caatctaagt atccgagcaa aggactaacc cgcgaaacag gaagcaaata 960
cgagagaaac cttctgctc gtcaactacc ttgtgagtgt aacctaaact acgtggacaa 1020
tccagacatc gtctaacgct atgtcagacg cctctggtgg tgctggtgat cattaatgct 1080
ctaggacaaa aatcaagaga gattatttta tgtaatagga gcatgtattc cagtogtcta 1140
attaaatcaa atgcaatgtc tctgcgaaac tagactctca agacgagatt taaacacata 1200
gattgccaaa agacagcact acaattgata ccgataaagt tggaatcaga aca 1253

<210> 2576

<211> 2870

<212> DNA

<213> *Aspergillus nidulans*

<400> 2576

gaagaaggac aaatcctcgt ccaaaagtag cagcagcagc aagaaggaca agagtagcag 60

accagatacc acgacagctg ctacgcctgc acccgtocca gagtctccgt acactttaac 120
 taccgcaacg ctctacctgc ctctttcgcc catctcaatc tctcctacgc acgctctcgc 180
 ctcgctactt gctgaacacc tatccccgct gctccttacc tactaccgcg ctttccaggg 240
 cataattctc gcttactcca atgcttcgat atcaagtga ccaccctcgc cctcgtctcc 300
 gacctccaca acctcaccaa acccgcaacc actaacccta gccaccacgg cggggaata 360
 cggcggtatg tatgtctatc tcacagcgac ctctcttgtc ttccgcccgc agcgcgagc 420
 agaccctcga gggctgggtc aacgtgcaat cagagggtt tctgggcgcc gttgtcctca 480
 acctcttctc agtcggaatc gagcgcaagc ctcccttcaa cctggaaatg gattcctccc 540
 ggtgaagagg atgagaacga gaacggaaca acgacaaacc ctaactcaga cgaagacgac 600
 gatagtacgc cctctacacc ctctgatcct gaaaaagaac acttcaacct cgtcccgcga 660
 gcttcagact ccaatccctt ttcctatgac caaggccaag tcgcagattc cacaactggc 720
 gcaattggcc aactcgaagg cgaggaggga acaaccgacc aagactccct cgaaggccac 780
 ttccaatccg tctctgggtc cgcggtgcgc gggacaatca agttccgcgt tgtcgatata 840
 gacgtcatcc ctggcacaga gcgggaccgc ggcttcctaa gcatagaagg gacgatgctc 900
 tctgaggacg aggagagcag agttgttgag gacgagagaa atgggggttat ggcggctgtg 960
 ccttcgagcg tgcggaaggt tacggttccg atgtcgtcgg gcggcattat cgttccgcaa 1020
 agggaggacg ttgagcttga ggagtcgccg agcaagaagg cgaggaaaag caaaaaatag 1080
 acgatgccta tgtgacccta tatgctggca tcgtatgtaa ttatgtttgt tatgttcggc 1140
 gttatacgga ttaaaactgc attatgcgtc tatacagctt tgttcttggg acataaaact 1200
 ttcgtcttta tcaatctgtt ccgcacacac gctccgtttc atcatgttcg cattcatcag 1260
 acattactag cttagctaaga tgcaggccga attgatgatt agatcctcac acccttcggc 1320
 acatcaatcg acagtacatc cccccgtcc tggatctcct tcttacttgg catgttggtc 1380
 ctctcatta attctgcaca cttaaccata ataggatcca taccatcgt ggcaacagca 1440
 acaactgtct ctcccttaca gtagtaagct gcaaacttgg cattctcggg ctgcgccctg 1500
 agcaccaggt cgtcccatcc cattatcgtg ttcccgcaat aacgcagctg tgagccgagc 1560
 gcggaccaga agattgggat aaagaccttt ggtttgacct ttgagggga ggaggtgggtg 1620
 ttgtggagca tgtgcaagat tgaggatgcg acgctacggc cggcattttg agcgacattc 1680

cagtgttcga tgcgtgtgta tgtgcccttt ttgggatctg tgccggggcc gtggtacggg 1740
 aacgtggcga tatcgccaat ggcgaagacg tcattgttca gaccagggac ggagaagtgc 1800
 tcgtcaacct tgatggagcc gtccttctca agggatgatg ctgggttgcc ttggaggaaa 1860
 tcggttgacg gacggacgcc gacaccagc atgacgacgt cggcgggtaa aacggtgccg 1920
 tcctgcagat gcacggcgcc aaccttgccg gcttcttcat tggagggggg ggccttcgcg 1980
 acgcccggcg agagcttgaa cttcacgccg gccttttcga ggttgcggtg gaagatgtgg 2040
 ccgacttcgg tgcccattac gcgctccatg ggtgcggatt cttgaccaac gatggtgacc 2100
 tcattgtcct tggacagagc gttgcccaacc tccctgccga tgaaggagct tccgataatg 2160
 acaaccttct tgttctttcc gtcgccaatg gcattgagaa ttcgctggac gtctgttact 2220
 gtgcgggagt tgaagacgtt ctcgaggagc tggaagcctt ccagggggag cgtgcgaggg 2280
 acgcctccag tggctaggac gagtttggtg taagggaatg tcttgccaga gcgcgtaacg 2340
 acaatctttt ggctgaagtc gactgcacta acttcgtctg agactgtctc gatgccaacg 2400
 tccttgatcc actggggaga gcgcactgg atcttctcag ggtctgggat gagagccttg 2460
 gagagcttcg tgcggtcgat tatgagacta ggctcgcgag taatgatggt aatagcgcca 2520
 ttgtaaccga gttctcgaat agcaaggatc acgccgaggg taccagagcc tctgaatggc 2580
 gaaacaggtc agctagcgtc ccattcatgg gtacggagaa tcttaccctc ctataataac 2640
 caagccgccg gggccagagg agctgcactt atgctccgag attcgctgac cagacttgat 2700
 agcggattct tcaccgcgga tgtagacaga gccgttctcc tcaaacaatt caaatgtatt 2760
 gagagcagcg ggagcagggg catcttcaat atctccactc ttgacattga agcaagctat 2820
 agtgtggaag tcagcatggt atatacatat acatttaac tatatatggt 2870

<210> 2577
 <211> 2742
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2577

tcaggttccg gtagacgagt cgcaccaga agctgcgggt gccagttgga ccatgaacaa 60
 aggcgtacag tcactaaaat agccccgga tcccggttag cgcgactgct agcgatattg 120
 tccccgccga tactttcctt ctggggcttg ggttcatcaa ggccgtagc agatccatct 180

tcacgctcgc ggccaagcgg tgcccgtaa aaagtccacg gtcattggc tggccgatcc 240
 cacaccaacc ttcaccagga aagcgcgaat gggaaggatc cgaagactgg gagtggccaa 300
 ctgccgcgat ggagctctcc agggtaggag agtccttctc tcagtaggct ccgtcctctt 360
 cccgtgtcgg ccgatgcgct gttaatgctg cctattatta tagcgtgtcg ccagtttagg 420
 atctgacgcc gttaacaacg tcagccccgt cgggcctcct ccacctgtct ccacgccgaa 480
 ccatgtttct cgctgcttct ctaccagta agtgaggact ctgtacggct ctgcggttgc 540
 cgctctgttt cgtttctaata tattcttcat tcttcgcttt tcagttcctc ggcagttccg 600
 cagatctacg attctcgcag ggtaccagat tctccagccg ctgctgcagc agtttggcag 660
 cacagccggc cctcacacgt cgcccgctc tccgtgtttg caggcaagca ggcaagcaca 720
 gactgaccgg catagcatag gtagcatagg tagcatagcg tcgcgctgcg atctatcatg 780
 catcagttta tgaggcgtgt cgcagtttaa ggaatgcaga atggaagccc atcattaaat 840
 tgccccatct ggttggtaca gatcccgctc caggaattct gcgcggccgt tagattgagc 900
 agtaattttt aatatgagga acgtcctgct agcagttcaa cgcaccgggc tcgaacgttc 960
 gggagggggtt gggagccggt cttttcctag tgtcccgta tccccactgg aaccgtttga 1020
 taatcgccgc cagtcttcac tttttagtc attctaaccg gtttaccggt ttgttggtgt 1080
 atttttcggg cagctgaggc actaacactg tcggtaactc tactgagctg actacgacca 1140
 aggtacacac cccgtcctcc atagatgcct ttgcatgggc cactgggtaa ctgtggctca 1200
 aagtgtatca tgcaatttaa aataaaatga agggaaaatg gtaaaacagt tagtgtcaac 1260
 ggcttctcga acatggctct gggctcgct ctgggtcaac ctagtgcctc tacgtctgat 1320
 acagagctcc tcactggccc gtcttagctg ctcaatcagc tgtcatgagc cgatgatctc 1380
 tctgctcca ataatgcac ttgctgcgtt tcctctcatc ctcccgcca aggtccattt 1440
 ctcttctc ctgcttgatt ccacgaatct ttcttttctc tcacgacctc tcctttgttg 1500
 cttctgcttt agtccgagt tcattcctca gtagacggc catctcaaga tcttgtctcg 1560
 tctcgtgctc tcacctaca ggtcatcttt cctccacgg cataccataa ctcatctac 1620
 cattcccagt tatttattta ctgtatacac aaggcatcat acgcggttca cggcaccttg 1680
 gtgtgctagg tgtttttttc gcttcgacgt ctctctagat catcgtctgt gttgggtcgt 1740
 gacaggatac gctccgaagc gactcagcct ccgcagggca gcttcaccag gcctaaccog 1800

acctgttctg agcgcagctc cgtcactggc tcaaggcgca ccagctggtt ctatcgctt 1860
 acccgctcat cccgagatta agacaaggaa ctatctggca acatttctga acgtgccggt 1920
 atttcttgta ctgtctcaag gctggccgtc tgtgatctac ggctgtttg tcctactcga 1980
 ttcggctggt ctgtgagtgg actacttggg cgctgttgc cactgtcaag tgtcaaccgt 2040
 caagacgtgc actgcaccgc actacgcacc ccatccaaaa ggtcgggcat caagggcagc 2100
 cgcgacagcg aagactttga accgttcttt tcatctcggc gtatgctgct ccattctcac 2160
 ctactatctc accacgagca agccttgcac gctgtgaatc gcgcatatga ttgcgttaca 2220
 aaaccagcct atcctaccac ctctgccaa agtgatatac tcaactgcttt tgaagcccca 2280
 agatgaagaa gaagcggcct ccgtgaacat gatgagcacc acctcaacct ttccacctgt 2340
 ttcggctatg caaccgctgc cgccgatgtc ctcgattgca ccaccgccac cggttggagt 2400
 tggacttgcg actcaatcat cagtgccttc agcgccctcg gggcccccg cttactgcca 2460
 ggtgccagct ggtgctggta cgaagcgctt gcaacctgct cacacggcag agtcaccggc 2520
 gaagaagcag tcaaagtggc ctccggaaga ggacgccctg atcatcgagc tgcgaggcat 2580
 cggcatgaag tgggaggaca tcagcaaacg actaccggga cggagtgcaa tcagctgccg 2640
 ccttcattac caaaactatc tggaacgacg aagcgaatgg gacgaggaca agaaaaacaa 2700
 actcgcaagg ctttacgaga ggtataccac gctttgaaga ga 2742

<210> 2578
 <211> 1396
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2578

atctgttcga ttctcacagg atggctttgt attagcgact acttcatgcc aactaatgct 60
 agcgagtctt gagaattggt tgattgcttg tcatggctca ttatgagagt cgcttcggca 120
 gcttcgaggc ggacgatggt ggtctggtct cctgatatgt ttgtctggat ttactaaaca 180
 tgccgagtgc aacgtttttt tagaggggat ccttatttcg atggcgattt agtgagggtga 240
 aagtttggtt agtgatgcag tctgctataa ctttagaagt cttgccaaga tccggaaatg 300
 agaatagccc taactcagta gcatatgagt aacaaataat atatatatct caattacctt 360
 acaaacagac atattggcat ctagaccctg ccaccgatcc agtatccaat tatcagcgca 420

ctataccaat acttgtatgc aaacagccag cttcaggaca gaaccgtgat attcctcgac 480
aattccgtac agttcacgag cacactgtgg gcggaaaact gccgccaggc aggaaagcaa 540
gactgctata attataggtc gggctcagca ttataatctg tccgacggtc gtcccgaact 600
cttctgccag atccttgtac acgccccagg tgaacatata cggctggata gcacactgac 660
tgggctcgca cagagggact ttgatgaact tgcccggcga tagacggtea ttcgggtccag 720
tggtctcatc acctaatgcc gcggccgtga gagactcggg tgtgatattc agccttctcg 780
cgatgatttc gtatgtgtcg ccgttgacgg tgtagtagtt ccgagggcca ccgctgacgc 840
aggttcttgt cctcgtgggtg ttgggaagga ggcagctgtc gttgtctgta tggcaggttt 900
cagggtgggat gatgatttgt tcgccaacgt ttgggatgat ggtaacgtcg gccatgaggt 960
tctgtcgccc gatgtcgag acgccgcggg ttgtggctgt ggcgatggag aagagcgtgg 1020
tgtttggagt tgttattggg caaaggtagg atgtactgtt gagtgtgctg gggtcacagc 1080
tcgaggagac gttttagacc agggctgcgg cgaagagcgc cggtaacagg gtgattaggc 1140
ccccgtgga tttgttcaga ctcacgtaca aagcagctgt aagtcaactg gtttattgat 1200
atgtgagaga atgtcaagct aaatagtcaa gggcccgat agtcgacgca agcgttgtt 1260
tttttcagg gctcatcgga gtcagtaccg cctcataacc tgcagctgac gcagccttcc 1320
acagcaggca tctttgtctc gtcatcatcg agaatctcg tatcactttt gaaccaactc 1380
ttggcagtgc agttcc 1396

<210> 2579
<211> 4313
<212> DNA
<213> *Aspergillus nidulans*

<400> 2579

ctccgcttct gcgggttttc ctcgtctcgt cctcgttcct cggttcgatc attacctgcg 60
ataacgtgtt tattcgcttg cggcgtcgcc tcgttctccg gtgatgggac tcagagcggg 120
tacatcacga atgcgtctcg agttacctac cctcgggact tgcggaatgc gactgtgctg 180
agcctgacct gtccggcgca taaacgggtc gagagaatcg agaatcgggtg tgatattaca 240
cgtgccgtga gagccagaga cttgaaaggg cctcccattt ttcaggtttg ctaggttctg 300
gaattcggta tctgaaagtc tggaagtctg gccagtatc cctttgtcca acggcgtcga 360

tctcgatagt aatgatatcc gtgcgcaaaa gcatcttgac agttatgcat gaaagagccc 420
gaaggagact tcccgtagac atccccggca cctctaggca gcaaaggcag caaatatagg 480
caaagtatag agctgcaggg ctggccctga tccctagtcc ctacagatct agcaagctct 540
ttcatgtcgg acgattatac ttctggaaca taaatggttt tcgactagac atcagccaca 600
taactccaat ctcagttgaa tcttctctaa ttcttgggaa caatgacccg cggaatgggtg 660
gccctcggga ccgtggagcg cagacagcac gagcaatacc agacgggttg caagacgctg 720
tgtcttgaag cacagcagca ctagtggga tgtcgaagtc gatatgcaca tgttctgatg 780
caggaatctg ctgctcagtc cttgaggcct cgaagctagc taggtatcct ggcagagaac 840
acgcaatgat gcagacccct taccagctc gagacatggt tgaagggttt gtcagtacga 900
tattgaattc taaaatctgc cattccattc acggaataga tccaagatg tcttaatcaa 960
catgccatac taatttgacc gcgtcagctc cggcagctgc ttttgactct cttagattga 1020
gtacctcgcc gagactgggc agtggcgctg caccgcaccg cctgcggcca atgtatcatg 1080
tgacggcacg aggccgacct tggtaccttg agtccaata tttcgccact aggagtcacc 1140
ctcggcccca cgttcaccat ccccaactcc caaaatccaa ctccagattc cattctctc 1200
aaactccaac tccccacggt actaatcgag atggatctgc cgattctctc ttttttgagg 1260
agctaccgct tcacttttgg ggccgacacc ctctagtaca gaatcgcggt cgacctggga 1320
tgaccacttc tgccgttacg cctcggcaac ttcccgtct tgccgtcatt aagcagcgag 1380
ctctgtgagc tgccgacgcc tcgttctctg tcaactctgg tttgcacccc tggatgccat 1440
gccacgctcc cgtttgaaac ctcgatcat gatcgtgatc aggaattgga catcgtactc 1500
cgcgcccgcg ctttcttccc aactacctga ggggtatacc tgagtgcct catgagctgg 1560
cgttcagctc ggtttcagct cggatgatgcc gccagtttgc ggtcagaggc gcatccagca 1620
caaaaatcaa cgacgaccgt ttgaaaacta atcgctttca tgttcgggggt atttctcggc 1680
tgccagaagt ctccagaaag tctccaagga gcaagaaagc gcagcgccca ctatgtctca 1740
atcagtaccg gcatgagctt gtaaccacgc ggctccaaca gcccttgtag tctgtactct 1800
gtagcgctga aggtagtagc tgaattctta gtgcgattgt tacctgtaga ctgctggctg 1860
ctgactgctg tagcctctg ggcgtccctg caggacaaac tatcccgctca aatccgttta 1920
gaggaatagt atgcagctac gtggctcttg cgtcccatc ccggtggaac agacaactgc 1980

atgggggtgg cagctgagca ttctaacaac cacagtcgcc ggcgccccgt tttcattatg 2040
ggtatatcga taattagacg caccataagc tcgcggcggtg gatactggct gctcaggacc 2100
tactgatggc agctattatg tgcattggtgt cgcgcattgag caagtgactc ctgaagtata 2160
tcgtacctat gtttcgcctt ctcatctact atagagtact tagtacacac tatcgttcta 2220
gaaacaagta ccgcacttta tccaaaccgg ctcttatcta atactccgga gggaaaaatc 2280
aaaaagaaat tccgacaatc ataataatac ggacttgctg tggatgattgt gaagaacctt 2340
gcagccacat ggcggcgaccg actggctctc gcaaggctga gatccttcgg ctcatattgat 2400
gccgaaaacg caaggggtga aatcatccat ttctcctcca ttcagatagt ctcatgctct 2460
aatgagaatc cacccaaagg agaaggcgta cgtgagtgat cggccagAAC ggcttccccA 2520
gagaatgaga gtaaagtacc gtaagctaga cccagctcta gggatcacct aatcgtctcc 2580
catcatgtgc cgtaaactctg aatctggccc cgaacaacga acctcgatgg agaatacaga 2640
gtacagccat catctgatag gatccgattc gcatttctgt aagattgggg ttacatgcaa 2700
gctgacaaca acaatggatg tgaagtctaa agccacgcgt ttcatatcga agcctaagag 2760
gaagagatca aactactcgg gactctattg tactcttctc tctccatggc ccgctcgcctc 2820
tatttctcga tgggggagag gcgacactgc ctcatctcgt gatggagagc tgctcatctc 2880
atcgccagta ggttgaaaga agactgacag aagactgaca cgtacattgt cacttgggat 2940
gtccatcggg cgatgcgac attgattact ggtgacagct ggccgtcgac cgccttgtga 3000
tctcgggggt gagttgtgt gatacactcc cggcctgtcg gagccccttg agtccctagt 3060
ctttcaggcc ctgctgcccg gcgacgcagg taagcttgac ggattgacgg gattctacgc 3120
tgaaaaatgg gcgattggaa tgaagcttag aactgtgata ttgatatcga cgccacgatt 3180
cacaccgtcc gcatgatgtg tggaaagggtg tacggagtac aactgagta cacgcagtag 3240
ttacggatac aaccgagcgt gtttcgcccA tactatacgc atcgtgataa tgaagctcgc 3300
cttgacgttt ttccggttaa gtatccggtt agttattcta cgatgatcat catgaccgtc 3360
gcctcgatcg aaccgcagac ctcttccttg gtatgtgata acgcttgtca ttgcagtggc 3420
ccgggatccg ttcccatctc gccggttagt ggcagcgggc tggacggaag aacggtccat 3480
atccattaga gatggatcaa acatcgcat tgacacgtcg agatcaatgt agtgcccttg 3540
accctccctt gtattgggta aagttataca aagtactagc acatgaagtg gcagagtaga 3600

ttgatcaact gagcgaaaat atgagttcca gtaagtgcga aaacaaacct gagcgacagc 3660
 caccaaaaaa aaaaaggcag gttcgactcg atcccacgca agagcttgaa cggagacaga 3720
 ttcacagtct tccgaacggg ctgcctaata gagccatata cgtggcgaaa ggagatgaat 3780
 cgcatcgctt gatctctgtc taccctgtat acccgtata ccccgtagtc agcagggcat 3840
 agtctgtagg tgtttggccg cctgaaccag ccatagacag cattgtctgg ggcagtgaat 3900
 cgaagctctc caaccgcgcg atcgatgctg agctcgattg ggggacggat aatatgcctc 3960
 agattgcaca agagataact agctcgcaag gaatctacag cggctctgag ctgctactta 4020
 ggctgaacag tgttatgaat atcaagcgtc gcacgccaat cattggggac ccattttttc 4080
 tggcagtcaa gtgacctggc caccgactat cactttcgaa tattgatgcg atgcagaact 4140
 gggggctgct cctgggtgta gtcagccggc cacagggtt gctgattttg tctagactct 4200
 tgagtcttcc atagttgctc tatctctgtc agtcgctgtc ggtggtggcc agctgggtga 4260
 ttttatgagc gtttaggttc agtctcggtg gtaaatggcc ataaggatcg gat 4313

<210> 2580
 <211> 2389
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2580

atctttgatg agcgatgagg gcggttgaag tagattgcct cctggcctat tgagctaatt 60
 agcaagatcg ccaaggatgt atcctttggg gcgcaaagca acatacggcg tgtagttgac 120
 cgtgtatggg gtggcactgg gaaacattga gaggaggcca tctctgcaga caatgttagc 180
 atgtcgttac gaaagccaac agagcactca cgcagcattc tggatctcag tagcgttgac 240
 agtagcggta acttcgtcgg cgagcgcacc gatgggtgctc aggagcccga gggcgatata 300
 acgaaagaaa tgcataccag ggctctatca cttgctgaag tgtgtagtaa atagtcacga 360
 aagaacctta aaggagtatt gagcacgtcc agcaatggctc aagacgccga ccatgtgcgg 420
 aagcgatgag gtatgacctt atatcaaatt gtggagatat atcgatcggg caagccagtg 480
 ctctctgggg tatgctgctg aaagcacgag cgaatcaacc cacagcgttc tatggcaacc 540
 ctggccgagt gggaactcag acatctggag ccgtcgtggg ccgaagccgc cgtcaaacct 600
 cggggatcca tcttgaggct ggtatgagta atgggtgcga ttggttcgta tagggcatgc 660

tgctgtctga ctcgccccgt atgaatcagg atcttgccggg gaaggatcca agcgaccacc 720
 gcggtgcctg gctgcacatc aaccagatc ataatttgag cagatttaca agccatatgt 780
 tgactttatt tagagttgcg gctgctggat ttgaccgagg gtggcgctccg gattctcctt 840
 gtagacgaga tcagagcagg ctggagttag acatcgcgcc atggtaccga ccgcgaactg 900
 aagctattgt aggtaacgca gagcaacagc acttagggct gagctctata ccaaaatggc 960
 ccattactcg atttcatagc atgggtaagc taggagtcgc actaaacccc tgagagctca 1020
 atgggtgtat cgatgtcaag cattgccata gtttcatacg agataacgtt ccctttcggg 1080
 tcagctagac ccttgacgca tgccaaagct ggtgaggagt taatgtttct gttgcgagtc 1140
 atggcctctg agtcgcgggtt tactgcagaa ggcacgacgg ggattgcac agcatccagc 1200
 acgctacgat gagaatcgcc actccagcag gcccaacgca cccttggttg gccgtcaacc 1260
 ccgcaaagtc catctccgca accgcaggga ttgcccggtg aagtgaccga tcagtatatc 1320
 tgacttcaag aatgtgatag ccgccaaggc cagcaggga gaggatgcca tctataaaga 1380
 gctcctagac gtctctgaga ggggggtacca ctaaccagtg tgccagacca gtcttctctc 1440
 gccacaaaac atattacaac agtactgtct ctgtcctcag caagggtccc tcctcagtc 1500
 tgaccgcaaa catgaagttc ttccaatatt tcaccgtcgc actactgccg ggcactatat 1560
 tcgctatccc ggccgcaaag cccaagccca aggccgtcgc cacggcggca gccattaccg 1620
 cggaagactt tcagtctctc gttaagcggc agtcgaacct gaccgacctc attggagact 1680
 tgaccaattc cttcggcgcc attaaggact tgctgtcgac cgagagcttg aacaacatca 1740
 acctgatttt gaccaaggct gccgagttac tttcggaccc aaccaccaag cagatcaaga 1800
 gcctcgtcaa cacagcctcg gacctccttg gcagcgatgc tatcaagaac ctgctcgacc 1860
 agatccccac cctgctcgat agcgtcggcg gtctcctgaa caaagagact ctcgacaaga 1920
 tcacaaatct gctgaataac gccgcccttc tcctgaccaa ggagtctgca gagaatacca 1980
 gaaacctcat aaatgatatt ggtatTTTTg agcccttcca cctccaagag atatgaccag 2040
 cgctaacagt aactagctcc tctggtgtcc gcagtggccc aggttatatc agctcttctg 2100
 ggtgcccttc tcgggtaaag acaacgattg ggtgagaagg attcaggcag ccgcacggtg 2160
 cagggtcaatt gaattgcgtc ttcgataacc atgaagctgt tcctgctagc tgagaacca 2220
 ggccgggagga tagggggacg cactaagtct gcttggtgcc acgaccgtac tggcgctggt 2280

aatgaacgat aacgaactaa tcttacttaa taaacgcac atgaaaacaa aaccgaattt 2340
 atttgtcggc tgtcaatttc aatcaatagt aatcgtagt tgagctgaa 2389

<210> 2581
 <211> 1147
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2581

gaaagtacaa gctgagcaaa gccatgagga ggagccagaa gaaactaagc ctgacggccc 60
 ctccactgag gccgtatcag ccagcccaca tcaagatgag gaccatcgag gagcagaaga 120
 tgatggaggc gaggtagttg aagataacga agatacgggtg atctattagt tattttacaat 180
 atcaagttgg tcatctactc ctgggtcccaa tgggtgtcaa ttatgtacaa cacaatcatg 240
 ataattgagg agacgggttaa cgagggccga ggcaactcgg aggattgaca tcagacccca 300
 aaatactccc aggtccacga ccttctatcc ttagacattt caaaaaacat tttcaaagac 360
 acttaggcaa atcatcctct cgatcaaatt atcctctatc aagccctcaa attacagagg 420
 aagctcgact tcacgtgacg ggagaggggt tctgaagacc ttctccatta aaaaaacat 480
 caacatcgat acagtccatt tgagctgcct tgtccttccc ttttctgtat tcgttttaat 540
 aggctttggc ccatgaaata aatcctgccg ttcgaaaacc atggcagtgg acaaaaccag 600
 ggtttcggga gactcccgag tcgagcatcg ctcagcgttt gtgaaggaaa acatacggta 660
 tgagtatttc ctcactcttg tgatacatta ttgagctcgt gcacttcttg cgtgttcccc 720
 ttgctcgccc gacgccgaga cgtgcttatg caatgggtcta acaaacaatt cgttgactat 780
 atatctaggc tacctctata gccagccgcc atcaggccaa taaaaggca ccgtagtctt 840
 ggtattcaca ttgacttttc tctatactct ttcaagttca atactgatgc agatcctggt 900
 ctgtctcagc tccatggttt cccggacctg tcaatgggtt ggagatacca gattccgcta 960
 tttgtcaata aaggctaccg agtcattgag ccagattgtc ttggatatgg acgaacggta 1020
 cactaggcca tcaattttac agtctgagca agcagctgac gggattactg tcttcttaaa 1080
 ccaggacgcc ccagcggatc tagcggcata ctcacacaag aactgtgccg acgacatcaa 1140
 agaacta 1147

<210> 2582
 <211> 3120
 <212> DNA
 <213> Aspergillus nidulans

 <400> 2582

```

accgggatgc aaagcctgtg tatagaacca gagcaagcaa gatgattgaa gagggggcga 60
gggcttggtc aatcgatttc gtcagagagg cgaaaaaacg gaagaacata gacatgcccc 120
tcatcatggc gaaggagatc aggtagagga aaaagaacgc tcccgcttca cgtcggaggt 180
ttcccatgaa gtacaggaca aggctgttga gcagggagtt gacaatcttg tatggcatat 240
ccataatcat cgaagaaata gcctcagcgc taggggtgga aagggcgat ctgctgtgtt 300
tctcgacaat tgttcgtttc tcgtacaacg tgatgatttc gagaacgctg gaaaaggcac 360
tcaagaggac catcatgaac agcaatgcgc cacgggagaa gaaggaggag gtatttccag 420
gaagattgta aaacacactg gaaatgatca aggcctcgaa gaagtttaga atcagcatgg 480
ccagtgtcac actgggggtcg tttttcagcc gttggaaatc cctccacaag cagattcgaa 540
tctggcccca gtatgacaag gtatatggag atttcggtcg ctggttcttg gacttctctg 600
catcccgca agacgaaaag agatcaaggt ctgtggcgtt aaaggggtgc tcggtgttat 660
accggtcaat gtcacgtaga agtgcctggc gttcaggact ctctttccac ctctgcgcaa 720
agtcacggc tgtcctgggc actaagttct cgaatccagg ccggatgacg cgctcgactg 780
ggctcgacat gaaggtaaaa aagtcaggcg tagtttgagc ttcagggcaa acgaagccga 840
gacggatgaa gtagtcttta gcttcctttg caggaccgaa gtaaactctgc cttccctcgt 900
agagaacggt gaccttgtcg aagagctagg aaagggtcag tacagttggc aagaaaaaga 960
cttccaacat acctcatagg cggcttgagg agcctgatag attgcaacac aggaggtgat 1020
cccgaaaacg tctccttggt tccgtagggt cttgcaaaac tcgacagcat tggcactatc 1080
caacccccga gtgctattgt cccaacactg cagaggagcg tagctcaatg ccgcctctgc 1140
aatagtaact cgcttcctct cccctccgct aacccccga acgaagtcgt taccaacctt 1200
gggtgttgatc gtgtggctga tgccaaaggc cgacatgatg acatcgcgta agtgaacggc 1260
gtactcctct cggctcatgc ctccagggac gtggcgaggc gtccgagcga gcgctgcaaa 1320
gtatagggtg tccccgacaa caagctgagg aaaatgtgcg tccacctcgg cggataaat 1380
cgcttcgcca cggaactttt tggacatctg tttcggagta atgccttggg aattgacgta 1440

```

cgaagagggga tccacttcaa agccgtgagt ttctgtgcg atggtcttca acagagtcga 1500
acagcctgac cccggagcct aagcacgcag agttgttcgc cggaagcag cagcccgctc 1560
acgtcctgga ggatctcagt ccgttgcttt ttgcccccta gccattgcca ggcaagcgtc 1620
ggcaacttga gaagcgcatt ccctacactc atctggtaat cgactggact tccgtagcca 1680
gcaacattga gattcttgaa cgcgacacca gcaactcgtg gtggaggcgc gtctgtcgaa 1740
ctgtaccgga cattgtagaa ggccttgccc caggctctcg cattgaactg ggcatctctg 1800
gggtcgaggg acgggtcttt tccaaagttg aacgggagct gatgatgcga atgcttcgac 1860
cgctcactca gtaccgcgc caagttggtc acctcgcggt cgttttcgat ctgattttca 1920
tccagggtcg agttgcagct ggtagctgtg ctgtccctgt cgacggcttt cggccgactg 1980
tctgttatgg gatccatgga cggtttgcca ggagcctgat ttgcagcatg gggacaaggg 2040
aaggggctca gaattttata cgagtcgcc cagagctcgg agagttgttg acgaatggcc 2100
cgacatctca aacacccaaa tttggagccc gaagactatt gacacgtatt gagatgttgc 2160
ccaggtcaga cggagccgc gggcggcgc atccgtaata tgaccaaga cagcggaatc 2220
cggatcgaga agccaatgag tcaaatgag tcagggatcc aataagagcg cgccaagccc 2280
aaagagtccg atagtcctat agtcgagcg ggtgctatat gtcaagacat cgaatcggtc 2340
tcgggttcat gagaatccgt ctctctcttc atcaggttat gattcctagc ttgatcaacc 2400
gttacaatgc aatcttatcg catgaagctc tcggtaatgg cgaatacccc ttatcgtca 2460
cttgctcgtt gctgacatga cggtagtgtc tcaggtgcaa agatcgcaag gtgtgccgct 2520
cgaccagcac tgttcgagga tgctgaccct ctgagctgag atgtgaccgc ggggagccac 2580
aatgcaaacg ctgtcaaac agcagcgtcc aatgcttgta ccccgaaaag agaaagacac 2640
ggggttcaag gtgggtcgcc tcgtttgccc tcccgactct ggccggtcta atagttgcct 2700
aaggcaaaag tccgacatac accgtcttga ccatcgctg gaagccttgg aggaacaact 2760
cagggcagct gcggccagaa acgtgagcca ggaatcaccg acccgggctc atactccagc 2820
ggaaaccact cgggtgggaa cgcctcaagt cgatcttgaa aatgtctcca aagatgatgg 2880
tgggttcagc acatccatcc tttctatgca ggcattgaca cggatacctt tagcttttct 2940
atatcggatg gttagtggag cgacgacagc attgagacgc ttaccacgca gtcttcagag 3000
cctccatata cttgggtctca gtccacggtc agcagtgcaa tcacgcgtct ggacacggcg 3060

ttggttcagt tggtgctcc gttccctcgg ccggacagtc gccaccaac gattcaaaga 3120

<210> 2583
<211> 2192
<212> DNA
<213> Aspergillus nidulans

<400> 2583

cacacatcct tggtttgc atcgagcacg atagaactgg acagggagaa cccgcgggtt 60
gagaaaattg ctatccttga taaaaagctg tccatcggtg gtgtccagct tctccattac 120
ggaaagggtg actgcctcgc gagacaaggt ctagtaaggc aattctgtgg agaacaacgc 180
tcaagctctc gtagggtaaa aacaggtcga catcttgctg gtggacgaca gcggagcaaa 240
agggacgcgg aataaactaa acgaaaagaa cgtcagtatc attttccctt gggagatgga 300
aagagcactc gaagaggact cgacgtggag agggaaaact gaggttgga cgcgaccaa 360
atgtgctatt ataggctttc tggcccaggg aatggagggt gacaaaaaca aaaggctcag 420
caggtttcca caagcccaca acaatccaat ggcatttggt accatacctg aggactcccg 480
aagaaagaaa agaaaaaaaa agaaacagaa gtcttctcta ttcaagcaga acagaggctg 540
tcgcctggac aaaccgaag aaaaagaggc tgttaaagct gcgaagtcga ctccaaaaaa 600
aaggagaaga ttggagaagc gaaggagag gaaaaaggac cgggggcagc tagtaatag 660
caagtagaga gcagtggcgc ctcgtagcgc agcggaatga tgaattgaag gaggggtgga 720
taaggatgtg caccggagca gtgagcaatc agctgagaga gggaggggag ctatcagcac 780
tcgaagggtg ctatcaacgc ccagggtagg ccgccgatga cagactaatt ctctagctga 840
tcttgagct gaggtaaaaa agaacgggag aaacgaagcg ctgagagaga aaaagaaaat 900
atacagccac agaaggggat agatacgaga gacgctctta ccttaatggt agtggaaca 960
atatcgctgc agacttgaag tcaaaggcgc gggcggcagg gcagattagt gaagtattta 1020
tcatgtcaga tctggacaaa ggagtcccat aattattggt atgagagttt ccatgggtcc 1080
ttcaagttgt tatcgagta tcatacggta cagtggagac ccggcataca ttgaaacat 1140
tatccatgct tgagcatctg tctgctgcga ggagtcgccc catagctaca gcatcacttt 1200
tttcaccacg atagttttct ttggaacggt cagaagcaat tgatctttac ttcagagttc 1260
gtcccgttac cagggtggacc gtgaacagaa gcggagccga tagattttta gtttgtcaac 1320

aaaagagtca ttcctctgcc gtcctatcg aaagcagcag tccgtgttac tactagcggg 1380
 gttcctacgg agaacggata ctcaactact gctcttcatg agtgagactc ctatgtcagt 1440
 catactttat gtctgttgg cagatgctga acatcccttt cttgaccttg gttgaatagg 1500
 taaaaatatt cgggtgtttca ggacatacat gccacccctg ggagagactc ccaattcctg 1560
 attgtatcct ttctgtcacc tggacggaag tggagcgatg gcttcgggac gcttgagacg 1620
 ggtatcccg tctgtacctc gaatgcgata cgggaaaata tcattgtcga catcgatgga 1680
 gtcattcatc gttacctacc gtacacgatt tactccgtcc acaagcgaga tctgtcctta 1740
 atccttagtc acagccactg gatgggcgtc agtcggcccc gtcatgggaa gagcaaacag 1800
 gcttgatggg tgggtgggt aatatttcct ccgcgtcct aagcttggaac ttggatagcc 1860
 cttcccaact gtgtcatctc ttgtattga cccggcctct tattgttgct tctggataa 1920
 cacctcttca ccactgattc actttatgtt tctctcgact ctggaatatt ctctatata 1980
 cactaatccg tccaatcgac acctttactt ttctaccctc ttgatactct tctgtgggta 2040
 acattcgat aacacttcca tattctaata cacctatctt actctccctc tcctatctca 2100
 tcacctgatc tatctccttc ttctatctct cttttattcc cttaataaac actccattct 2160
 ttctttctc gcacatcatc tctttctcca tg 2192

<210> 2584
 <211> 3044
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2584

cgcttcttca gcaacgctct tctccgctaa agcgacaaaa gccctttctt tcgagcagat 60
 tgcccagcat atcgccgta acgaggctgc taccgccgcc atcttctatg gccaggctaa 120
 agcctctccc gaggacatcg agaagctttc gtctctctc gacatcgacc atgagaccct 180
 aaaagcacag ctctccggct tccccgaccg cggccgttcg gttgagatgc cgccaaagga 240
 gcctctcatc taccgtcttt acgaaatcgt gcagaactac gggatatcgt ataagccggt 300
 actgaatgag aagtttggcg atggaatcat gagtgcgac tcgttttcga ctaagggtga 360
 gaaggaaaca gatgagcagg ggaacaactg ggcagttatc actttgagg gtaagcggct 420
 gcctttttcg aggttttagc tggagaaatg aagaaggaat gatagataga gaggaaatgt 480

attgggcaat attatgggat gtgtttgaac aggttgcaat cgctccgtgt agttatcagg 540
 caattcaatg tctcataatg tgtaaccac ttacaagtaa atccatttct cctttgctgt 600
 tggatttcag gcagctggat tgtttcatga tgccgtatct caccggaatt cccgcagctc 660
 tcgcacagcc ggtatgaagt gaacaagagg agtctcacag cattctcacc ttccatcatc 720
 tcctcaaatt ccttccttct attcataatc tactatTTTT catattactc tctatTTTcc 780
 tcatacgttc aactcctatc ttgactttca ctccgtcttc tcgatctggc aactatgcgc 840
 gcttgccca accccagcc gaagacggca gcaagcccaa ggaacaagat aaagactaaa 900
 gcgcctccgc gtgtcaaagt tacctatctc agctgcaact ttcggttcca gacagataag 960
 gacatgaaga aacacaagac cgcctcgtct gagcatgaat actgcaacaa atgcgacatc 1020
 gagtttgaga tggaagaaca cctcctcctc cacaagatca agagcaacaa acacatcgtc 1080
 tgtccaatat gtggtattga ctttgacagc gaaggcggcc gtgaccgtca tatacgtcag 1140
 gtgaatgttt tcccccttc atgttaactg atgccgatag ggctcatcgt ggtgttagtt 1200
 ccaccgtca gcacaaaacc tcacctgctt cggatgcaaa gctacatacc gcagcgcttc 1260
 tggactcatg catcatatcg aaaacggcga atgcgtcaag atccgttcac atcgctctct 1320
 tgtcgaacag cagaagaagc tgatgcgcaa ggaggctctg gagttcttaa tagccccagc 1380
 tgtcccttcg ctcgtcgaca tggatgaaga tgacgacggc ggcttagaaa aagaatacaa 1440
 atatactagc tgaatgcgtc cagctcccaa tggcccgag cgacctaac cgcgaggcga 1500
 taccacaacca accggacagg ataacagcga acacgaacgg gcttgctcgac cgctactggc 1560
 caagactgac agaaacggga ctggagaata ggatgagcga tctcatggac gtctccaccc 1620
 ccactggcaa cgaaaggag aatgagagta ataaaggga catgccggct ggatgagtaa 1680
 aggacgcacc atactTTTcc agagttgccg gcatcgaaag catctgcac tgtatctgca 1740
 gctggagctg gggctgaatc gaaatttaag tccggaaccc tagccgctg tgctcttggt 1800
 tctccccgtg tcgttgggat ttctaagtct ggagtcgagc ttgcgaggat ctacaaggac 1860
 tggaaccag gaaacttcat cgacgtgttc accggagaat acgtatgtgc gtgcggaaag 1920
 cgctgtctaa ccaaggaggc gtttgagacg catgtccttg ctgagagcca gggagcacgc 1980
 agaatgcagt acgttctac tcgcctatgt tataatacct ttactaacgt tgccggcgag 2040
 gtgccctaatt tgcctgaaga tttcaagtc tactgctgag atcatcacgc attgggaatc 2100

cccgagtcta aaatgcgacc agagcgaagc tgatatgtac gcgcagattg tggacgaggt 2160
 cagcggcgga ctgatccaca ttgccggcta caatgaggac ggaacgataa ggtatgaggc 2220
 tagcaacctg gaattgcaca agaccaagac aattggagtg gctctagata ggattgactg 2280
 gtgaaacagc ggcttgacga gggagtctag cggactaaca cactccagct caggctcgtg 2340
 gtgcagtgca gaatcgacat atcggtcaca ggcacagcca gccttgagag ccatggaatc 2400
 gtgaaatcat gcaatcattc gtgtttcgtt gggactatcc caatatttct agcaacatga 2460
 aacagggtat aaaataggta tcaaatccat caagccaacg gtgtcatgcc catggtagag 2520
 ctatcgtgac caattcgtaa cgcctgctc attcttcttc tgctcccttc atcatctgcc 2580
 gggatatatg tgtgactatc aatcgcagtc gcaacgcaac ggggttcgtc atcacctaac 2640
 agcagatctc gcagcactcg aagcaagcaa gaccggcgca actaccaaca accggttagc 2700
 tttattccga catgacgcgg tgcaactatc ttgtgacaaa ctcacagtcc acagcagaat 2760
 ccacctccac caccaccgcg caagtgcac gacatctcgt cttgacgagc ctggaaagag 2820
 agcttagcgt gattatttcc acagtggaag gtaaagaatc ctaaccggct gctcagtgac 2880
 gacgccgttc gcgttcatgg ttggcgcat aggagacccc ggctggatca ttgtgagagt 2940
 gttggggtcg aacttagggg ccgcattctg ggcgctggac ttctggcttg gaggacttga 3000
 agagagagaa gaccattttc ggcaggataa gtcagttggg tttt 3044

<210> 2585
 <211> 2436
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 2585

agcgtgatca acagttgctg caagcggccg aggttgactt tgtacgtata ctcttctatt 60
 cctgttcttc cattttcctc ctcatgaagc aagttcggcg ggcttagttt gctaacgttg 120
 tgccccctct ttgtttcagg ctggttatct cgtcacctta ggccaggaac tcgcgaatga 180
 aaactccgct tcccacatta gaaccgccgc cggctcttgct ctgaagaacg cttttacttt 240
 tagagatcga gagaggctta acgaggttca acaaaaatgg cgccagcaaa ttaccccaga 300
 tattaaggcg caggtcaagg aacttgcgct taagacgctc gcctccaagg atgggcgcgc 360

cggtcagtct gcggctcagt ttattgtttc tattgccgct atcgagctgc ccagaaatga 420
 atggccggat ttgatgcaga tctcgttca gaatgtagcg agcggatccg accagatgaa 480
 acaggcttcc ctgcgcacca ttggttttat ttgtgaatct caggaaatgg agctccgcga 540
 gagcttggct gcgcactcca atgctatcct tactgctgtc gttcagggcg cccgccgcga 600
 ggagcagaac atggacattc gattcgccgc cataaaggcc ctcaagtact ctgtggactt 660
 tgtcggtcg aacatggaaa atgaggtga gcggaattat atcatgcagg tcgtctgtga 720
 ggctacacag gcggaggacc ttcgtgttca ggctggcgct ttcggttgc tgaaccgtat 780
 catgggtgct tactacgata agatgagttt ctacatggag aaagctctgt ttggtctgag 840
 cattatggga atgaagagcg aagaggaaga ttagccaag cttgctattg aattctggtg 900
 taccgtttgc gaggaagaga tagctatcga agatgataac gccgcggtat gtctgacca 960
 acattgtctt gatgatcaat tgctgattat gttttcacgg cccaagctga gggtttgact 1020
 gatgtccgcc caatgtacgg ttcgcgcgc atcgcttgc gtgaagtgt cccggttctg 1080
 ttgcaggcta tgtcaaaca ggacgaagat gcaggtgatg acgagtacaa catctctgc 1140
 gctgcttacc aggctctgca gctgtacgcc cagtgcgtac aggccgacgt catccagccc 1200
 gtgcttgctt ttgtcgagga gaacatccga agcgaagact ggcgccgag ggacgctgcc 1260
 gtggctgcgt ttggtgcat aatggacggc ccggacccca aggtcctcga gcccctggtc 1320
 aagcaggcct tgcacgtact ggtagcatg atggaagaca gctccatcca ggtccgcgac 1380
 tccgctgctt acgcgctcgg ccgtgtctgc gacttctgct ctgagaccct tgaccctgac 1440
 gtgcacctcc aacccttat ctcttgctt ttcaacggcc ttgcaagctc cccgaagatt 1500
 gccagctcat gctgctgggc gttgatgaac gtggccgacc gttttgctgg tgatgtcggc 1560
 gcgcagacca acccaatttc aaaatacttc gaggagagcg tcaagtcgct ccttgccctc 1620
 acagaaaggc acgtgcctcg gattttcatt tcttaagtta aacctaacct ccgtctagat 1680
 cagacgcaga taatcagctt cggaccgctg gctatgaagt cctcaactct ttcgttacca 1740
 atgctgcaa cgacagcctt cccactgttg ctacactatc cgacgtcgtc ctccagcgtc 1800
 tggagcgtac tattectatg cagcaacagg tcgtcagcgt cgaggaccgc atcatgctcg 1860
 aggaaatgca gaccggaatc acaagcgttg tcttggttaag tacacggaag tttccttcac 1920
 taattgttta ctgacttgac taggtattg ttcaacgcct cgaggctgaa atcaagccgc 1980

aggccgaccg tattatgcaa atcctgctcc aagtcctttc tactgttccct ccgaagtcca 2040
 gcgtgcctga cgttgtgttc gccactgttg gtgccattgc taatgccttg gaggaggagt 2100
 ttgttaagta catggagtct tttagcccggt tcctcaacgg tgcccttggc aaccaggaag 2160
 agcccgccct ttgcgccatg gccatcgggc tggtcagtga tatctctcgt gcgttgaatg 2220
 agaaggtttt gccttactgc gacactttca tgaaccacct gatgaacaac ttgagcgtaa 2280
 gaaacctttc ttatattcaa tgtacgaatc ctaacatgat ttccagagcg ccaccaacca 2340
 gctcaagcca gccattctng aaacttttgg ggacattgaa caagcaattg gagagcactt 2400
 tgataagtac ttgaccgttg tcggtcagag tttgtc 2436

<210> 2586
 <211> 1303
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2586

tcgcacacgc gccagaatat cgtggcctgg ggacttgctg gtgctttcct tctttttgct 60
 aggtgctttg gcgtcttttt cgttcttact gacgtccttt gtaaatactg gctcaggtag 120
 ttccttgaat tcaaccgtgg ctaggcattt ctcttgcggt tccaactggc cccagacag 180
 gcgtgtcaaa aatcgcgaca tgccagcgat ggacacctcg acaaagtga ggccaatat 240
 gaccagacc agttttccgt tgggtggcatc aaacacaaaa atatcactga catattcttt 300
 ggggtgaaggc tgatggtgtc gtgcatacac ctcccactgc tccggccgca agtcgagtgg 360
 cactgttggc gacctaatac atcgttcaac acggttggac aagtacatct tgccctcgtc 420
 acagtcggtc atgcagttca agaaaatacc tgcaacttga cagaaagtgt ctccaaggcc 480
 cagcccaga atactcttgc tggagtcttg cttgatgatg cggccagccg actcgttgct 540
 cgtggctgcc agtttctgca acccacggta gccatcttct ttgtaattca ccacattcga 600
 aaacaatttg tagatgttgc gactgccctg gatggctctg tcggcttccct gccattgag 660
 cagggcaagg gcacggcggg gatccaccaa acgctcgtag gcggcaaagg cttgcatgga 720
 ctgcttcggg gtctggaacg tgattcggcc tgaaacgtgc tgagtgggtat ttccagagtc 780
 actgctggtg atgcggaagt cccaggcaga tgatctgtca ctgggcctct ccgcaacaag 840
 ccaaactgat ttgacctcat ccagacacag tgggggtgtc ttctccatgc cctctagctc 900

aggaatcata ttccccgtcca ccagggttgc caacgcaccc ctagcaataa cctgctggaa 960
 cataactggga caaatcggcg ccgttttgcgc aataacatgg gcgctaacat aatttttgaa 1020
 ttcataccgac gtgatgtgga ttggaacct tgcctggcat ctgtcagagt cctgatagcc 1080
 cacgaacgtc cagagaccct tttgtgcctc ctgaacagga gatgcgggca cgaagacctt 1140
 ggtcttgagc tttctgcgtt ccaaccagtg tcttgacttg gcaaattggg acgggggggag 1200
 gagtaataaa gggaatttcg gggatgggcc cacatgttcc cagaccctca cttgcagcca 1260
 aaccttcac aggttaaaag tcgcatctgc cacgttctga cca 1303

<210> 2587
 <211> 5307
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2587
 gcttgactag caacttcgcg gtggcggtct gcatagagac gaatcaccat acaggaaagg 60
 ttgtcagtgc tgaaccgcgc aagggcatga tcaaccagaa tcttcgatgc ctctgggca 120
 tcagacacat tgcgaatcaa atcgacagcc tcttgatcac tacatacatc ccagagctgc 180
 aaagaactat tagctcaatc gaaatccgtg ctagaaacgc atgttgactt accccgtcac 240
 aggccaaaat gatgaactcg tcaaggtctg gctggatgac agtctctgtt gtgtaaggat 300
 gccagtaac aagatctttg atataggcat cgccaagggc tctagttaca gcgagaactc 360
 cgttaactcg attattgaga atcaagcctc ccgcgttagc aatccttctc ccttcgttct 420
 catcactacc cttgtgatcg taagacaggc gaagggcttt gccgttccta cacagtatca 480
 cacgggcacg gccaacattg gctgtatata ggacacgctg gcgaatcgcc ttttcgcgta 540
 acttgggggg aatagcagga accggggtag cggcggttc ctgggtaggg gtgtcatctg 600
 cctttgaatc cgctccggcc ttggtcgctg ccacggctgc cggcccgatg gcggacgaac 660
 cggtcacgga acttggggtg ggaattctat ctcccatct gagtaatgcg acaaccgcag 720
 tgcaaccgct attcttaacc ggcagctttt ccagctgctg gtccacggaa gtaaatgttt 780
 ggctcgagaag ctcggaaca ggcgatttta tggtcttgcg cattacgtct tccaagataa 840
 gatgcaactt ctttccacac cattgggcag caaaagtcc tgcattggcca tcgaaaattg 900
 cgaagtagcc attatctgtt tcaacaatgg gcgtcaatto tccggtcttt ggccaagcgt 960

cgctaggatg cgagctctga tcagaatcat cattttgcgc tgacggtaca gggttaccaa 1020
 ggaaattata aagataggca tgggtatctt ccatagtccg gcgacatttt ttgttccggt 1080
 cctctgtaac gccgactctg aaagatgac gaggagttgg tgaagattcg cccgcggaat 1140
 tattcagtga gccctgtgga acgttgagcg ctgggtccat atttccgtat ctgtgtaagg 1200
 aagactctgg aagcgaagaa ctgagcgcg tttcggttcg ggggctacta aggctcaggg 1260
 agttttttgc gtttgcgaaa aatgatgctg cctttgagac cgtactgctt cggcgcttct 1320
 tgtcgccgcc agggctctgt tcctcgcatg ctctgcgtcc gaagaaacta gtggaagggg 1380
 gtgatttcgc ttgagatcca acggtaccct cggctctgaat actgagcgac ggtgtattta 1440
 tgggacctga tcgggggata gtatctgatt tatctttggg tgggctcgag gagccactga 1500
 acatcctgtt cagcaagcca ccctgaccag aaaaacttct tcgcttactt cctgccagct 1560
 tgaacgactt ccgatttcag ttttgcaggt gcggtgagaa ttcgagtcag cgaagagagg 1620
 acagcggggc atttctcgag cgacaaggct gagatagtat ctacgcggaa gaatcgcggc 1680
 ggaaccgagg ggaagcgctg gataagaggt atacggtcag caactagaat tatgcaatga 1740
 catctgttga aactgggggt ttgactgggt gcgtagctat tctgaagcct caaatgacgc 1800
 tcgatcagca ctgtcatcgg atgatgctcg ctaccatcac aacagggatt aaagctccct 1860
 tccgaaaaac ccgacaacag taaccaactg aggccaagta ggggttcaaa tggatcgcca 1920
 catgcttttc tgtccgtcct gggctgaatg ggcggatttg tttgtttcgg gcacggcgag 1980
 cgatagccca ccccgctgcg cgcttgaaa gatcacaagc cttgcggagt tggaaggatt 2040
 cgaggcactc acggaacac taggtattgg agagtataac cccctggact ggcagaagct 2100
 atagcgaccc cgacttgtca gaacggcagt agacgtgagg agccttgagg gcggatgggg 2160
 attgatcgat atttattaat agtagttgca tacactgcag taagggtgaga ttgcccagaa 2220
 cgagatgcca ccggcactgg gggcttccaa tcatcgccgg tagcgtcgga tttaacgggt 2280
 aacgtgacca cgaacgggtg gagcccaaaa caactataa ttttataaga gagtcagatt 2340
 cgttgattac tttccaatga agaaatcaag agcatattac ttttgcgtag acgagaaccc 2400
 gcaaaccagg ggggttggtt agaatccgat gacagcttcc taacgtagtg acccattctt 2460
 ccgtacgggt gtttaggggt tcgcctcagc gtgggatgga ggatggcgtc agtggatggg 2520
 ggcgtcacgg atcggccgta ctatgtaaac aactaccccg aactatcatt gatctgaaag 2580

atctggtgcc cagcttatac tatcttttcc ttacctacgt cggcaccccc aggtcaaaga 2640
 tgctactagc ctcaatcagg gtcctgtacc aatttgccta tttacctaaag ctgttcctac 2700
 ttcattgatat tgggcccgggg tgccttggcg cctaccgaaa aggcaagacg cctgtatgcc 2760
 acgtgatatg acgtacaaaa ggactaaaag acaggactga ctttccaagc ggaattgagt 2820
 tggctggggc ccaggatagg cgagactcag ggctgccggg ccgttatgcc tcattggggc 2880
 tcttgtcggg cattacagca ggttcagggg cccgttcaag aaggggtgtc ttgtcttgcc 2940
 tatcccatat ggagtgtcag ttttgactaa tagattaaaa cagggccact tttcgggtga 3000
 atatatagtt gcggcgctcg agattcccta cagcaattga agtctttcaa tctacaccgt 3060
 tccaagactt caacggacaa tcaccattaa taggcagggg ataaaacagt tgaagctcat 3120
 aattacccta cagaaaacca gaatgatact gaatgacgga gtatagagta ttgtgtaaaa 3180
 cctctttact caatgcagca ttatcgataa gataaaattc cacgtgacgc gcgtaggagc 3240
 gcggttgga ctttgtggat gacttccgtt agcatcactg ctggagcaca gcgctgtgtc 3300
 gcttttcttt acagagtatt tcgttcagaa caactttcac aaactacata gtatgggatac 3360
 tttttagttc ctggactcat cattccgttc acacgagctt gcaaccatgg cttctgaatt 3420
 cataggctac aatgtcctgg taactctccg agcaccacca gacgctaccg tccaaggtgt 3480
 ggttgcgga gtcacggcc agcgctgat gcttcgagat ggtatgttgc accgaccact 3540
 actcggaac aaatgagtcc tgcgctggat attgcatagc tctaacaaca tttttacact 3600
 tagttacttt gtcgtggatt ggctaccgac taccaacata ctccattgaa gctccagaca 3660
 tcgccgatct ttccttggga ccgtcagata gaccaagcgc gcaagcctcg cacgttttgc 3720
 aagaaaagca gagccttga actccatacg cagttcagca accttttgtg gaccccgcaa 3780
 ttttgagctt ctcgaaacca tcgagtgagg cccacgcgag cgtacaacc caagccggct 3840
 ttacagaaag ttcaggcgct cggcagcttc ccacgtcaca ggatacgtcc caagttacgt 3900
 ctcaggcaac gccagccact ttggccgagc cattcagtaa cctagagttg aacgtgggca 3960
 acaggtccac accgcaagca gaggagctac aaggtcctct ttcgctgtg gtcgaagagt 4020
 ctctgtttc cgccagtcgc tttggaacga cccgtggctc ccgtgggggg aagcagaaaag 4080
 atccgagtgt ctacaatgag catgacggcg cactcaacac aaacccaag agcaaagggt 4140
 ggccgcagac tgcgttcgta gaaccatcta atccaagttt gttggactcc ccacagtcgt 4200

acaaggagac gggcacactc aatggcaaac ggcggaagaa gaagagcaga ggctaccctg 4260
 cacaagtcag tggctgggcc accgaagaag caacagatat cagaaaatgg gcgacttgat 4320
 tttgcaaagt aacctctcca aattcgataa aagacgtggt ttttaagagat cagaaatgac 4380
 gacacaaccg ccgatgaaga acgattggtc agcttcaaca ggagagtacc aaagcctggg 4440
 accaatggag gccggaactt acactgggtc gagaacgtcc tcgatgacag cctcgaagag 4500
 agtgataatg aagctacgaa ccatgaacca agtgatgcc aagcttagtag tggaacaatt 4560
 tccggacgtg acgcacgaa gctgtcaacc cgcggccgag ggtctcggaa agggagtgtc 4620
 atatttggac aaccacttat tccaacacag ctgaatacca ttgggcgag tcaattgagc 4680
 aactcccgtc cgaaatcaag cagcccgtt cctacgaaaa cgcacgtttc ggcatcacca 4740
 gttaccggtc ttagtgcac tagcgccacg ttacggcttg ctactacaaa cagaagctgt 4800
 ccagctgtca gccctctgca gattctcgaa gttgagcagc tagcaatcgg cgaagttggg 4860
 ctgactgagg atatgattac ggagaatgcg ggacggagta ttgccgaagc ggccgttggc 4920
 gttctctcga gcgatgccgc tgcacctact atcttggcac tagttggaaa ccatcggact 4980
 ggagcgagag tcatttcttc tgcctgccat ctgcggaacc gtggccatcg tgttaccgta 5040
 tgcattgtgg ggggtggaaca agaggttgag ctgcttgaga gctgccgtaa gcaggttgac 5100
 atcttcaaga agattggggg ccgcttcctc aagtgggaag agctttcttc gagactctca 5160
 acttctgaat ttgcacctga tttagttctg gacgctctgc tcggaatata tcttctttc 5220
 aacgacctgc gaactgatga tcaagccaca gcctttgaga tgatatcctg gattaatcga 5280
 agcggacttg acacgctatc tgtggat 5307

<210> 2588
 <211> 2212
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2588

tgaacttggc catggcctgt cagtatgttc taaagatcag ctcccgtcc tggttttctt 60
 ctctctccc gtctcttca actcttgctt atttgttcac ctagctgctt gctgtgcttc 120
 tatacttgc ttacattttg cgatttttagc ctctgattct cgttctgctg gtcgcttggt 180
 ttgacctgat gcgatgtgac cgcaatctgt ctcttgctgc ataacgatcc ctccacactg 240

acagaccatc tcccttggac ctctatctag ttaatctgta tcgtgaaacg cactggaccc 300
tgaaggacaa tggactcgaa gctttgagct ccttcttgcc cttagcccac tctcacagct 360
cgactacctt gcggaactctc gtcctccttt accccacatc tcgctgactt ccccgactcc 420
ctgatattcc cgcgctgcct ccctccttcc atcttcacgg catcatcaaa tttccagaca 480
ctatatactg ttttaacaaca cggcattggtt acggaggagc tcctggagga ttgtctccag 540
atcctccagg ataaatccct ggatgaagaa gaccaggctg agaaaatcga ggagtccctc 600
cgcgaaaaga cctcgttatc agggacatca ctcgaaaatg ccgtcctcga tatcctttgg 660
cgacagcgaa accgcacatt accggactct tctccaccac cgccccgtca cacggtcatt 720
cgtcgctcct ctctgctcc ttggcagatg gcccgatctt ccacaccttt atcacctcat 780
tcgaacctag ggaccagtc cgggagtagc tcttggtgc aaagctccaa aggtggattt 840
tcgcggcctc ctctatcctc cacagtatcg ccattcacct ctctcgctcc gtccccgagg 900
ctcgtctctg ctcaacctat accgcattcc ccgaatctga acgcatacga attttcggac 960
caacaaagtc atgtgtcgga cttttacggg gaccttggca gtgacagtaa tgtggattgg 1020
ctggtggcgg acgatgcgat gagtacaact tcgtctgtag gcggtttgag catgcatggc 1080
ggtctcagtg caacagctcc ggaattcggt cctgatatga gtcctcacga tatattgcgc 1140
accgtactcg gagacaagcg atccaatgag gaaatagaat ccgctttaga agcaaacggg 1200
tatgacttag gtgccaccat tgctgctctc actcaaggag ccgatgcagg tgccgctcca 1260
agcttaccag acgatagtcg cgttgtcgtg ggaaagtcca tgacaatgga acctcccaaa 1320
agcacgtcta cccaggtca caaccgaagc cccgttgtgt gcaagtactg gctgtcaact 1380
ggtcaatgtc tacgcgcaga ttgtcgtttc agccatgacc tgactagtca tctttgcaag 1440
taagttttgg agaaccaaac gctgccttta tatacggagc taacaaagta acacagggta 1500
tagggtgatg ggcaactgcc tagctggcga tgggtgtcca ttttctcatg atccctctgc 1560
actgattgcg aatctcagtg ttgacggcaa ttcttcggcc acgtctgctg gcatcgcttt 1620
ccaagtggat aatgcgcgg atgccttccc tcctttgcaa tctacgcccg gatcttctga 1680
gcagtgggct ggtcaactcg gtagtaaata tccaggatat ctctatggtg ggcctggagg 1740
caaaaatgca ccacatctgg gaggtaaaag aagtggaggt atgacaaacc tgtcgcgtcc 1800
tcattcacgg ccaggaagcc gtcaccaaca ccgagaactt aatccaacag ctctgtctgt 1860

cgacgaccca gatgcgtttc ctacgcttgc tgcagtcaat gcgaagaatt caggaaagaa 1920
gaatcacgga aggaagaacc gtgacaataa tacaaccaga gataatatgc ctacgtctct 1980
ggcagatgta gtacgcatgt ctccagctcc agcttcagga gggaagggaa aaccctcctc 2040
taagaacaac cagacaaagg gtcgcgaaaa cagcgccgcc gcgcagtcaa taccggcgcc 2100
acagcatatc ccttggcttg agaccggttc tcgaacaaac cagcaatata tcaaatacag 2160
aacggaggcg atccgccacg gcacggtgag aaacaagttt ctaagaggat ga 2212

<210> 2589
<211> 1822
<212> DNA
<213> *Aspergillus nidulans*
<400> 2589

gggtccgccc gatactgaag tgggtctcct gaggtgttct ggatcaggct ctttgcgcca 60
atagccgtat tgtgagactc gctcaaagat gtgattagat ccaatacagc taagacatgc 120
tcgaaccgtt cacgcggtcg agatctacac tcaacctgcc gatgcatgca aacattcgac 180
atctcttgaa gatccgcatt gatagtatgg aatgccagct ttaacggatt aacaaaccga 240
gcgttttcgca ccaagtcttg gtgtttctta gcgcctcgat gaatggaaat attcaaacta 300
tcagctcacc tgcggatatt tgggcctcag aggtggaggg gagcgccctc aagtcattga 360
gggactcctc ggcggcctac agtttggtta gctgtgagct gacacctatt ctatctcagg 420
ggggagagca gacgtttcgc aggtcggcat tctttctttt tgattcttgg atgagattca 480
gcagttctga ctgcaatagt tgagaggaca tttccagcta gatgttgcca gttacgcatg 540
gccaaggcca gtccaacaac aaggtgacaa tcaagacaaa agcacgagct tcatgagttg 600
cttggtgccc acaggcgaga cacgagttaa actaggtatt gaaaatgcag cttcagctcc 660
attcagatgc aatatgcatg accagcactc tccagacctc tcaacaggtc aaaagatggc 720
caggtgtata aacaaaggcg agtcggccgt ggcactactg acgccaagat aattatctcc 780
acgtgatagg cttttatcag cacgtgtctg ttcaccagct gctcacctgt agaattaggc 840
ggtgaaattg aattacacaa gtatcttata ggcgataag ggccgtgacg acagccctc 900
tttttacttt gtgacggaat tatccaagtt tcttccgccc agcgccactc acctattatt 960
taggcttctc gtttggtgat attctactta gttaactccc cccctagagc accacttcac 1020

aatggctgca aacgcaaagg ttcccaggaa cttcaggctt ctagaggagc ttgaaaaggg 1080
cgagaagggc ttgggagcag gtaagcaaga ggcacaggat catctgatgt aagagccaag 1140
ctgatgtagt actgcgtttc taaacagagg cgtgctctta tgggtctcgcg gatggcgagg 1200
acatgatgat gagcaactgg aacggaaccg tccttggccc ccctcacgta tgccgcatac 1260
caatttatgt cccatgcttg gaggtctagt gtactaaact ggcaccacac gactatagag 1320
cgtccacgaa aacaggatat acagtcttaa cattcattgc ggtcccgagt atcccgatca 1380
acctccgact ctacaattca tctcgcgcgt caacctccct tgtgtcgatg cacactctgg 1440
caaggtccga aatccccaaa gccgaagcaa tagcactcga cgaagctaac ggctcctagg 1500
ttgaccttc caagctgccc tgtcttgccc agtgggaagcg cgattatact atggagacag 1560
ttttgattga acttccaagg taagctcccg gtagtcctag accttggcgg cggtatctta 1620
aacatccagg tacatggctt taccgcaaca taaaagctt cctcagctc ctgaggggttc 1680
gactttttaa gtttctgcat ctgaatacat cagagtcga aaacggagta ctctgtcggc 1740
ttatgctggg tttttagcat ctgctccttg acttattaga gcgtgttgta gtccatgcgt 1800
gacggtaaac atcggcaaat ca 1822

<210> 2590
<211> 1279
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 2590

gtggctcggg caggattctc atgcaccagg ctgacaaacc accctcatac tcaaaacttt 60
tagtctccca cttctctgca aggetgtcct tccactcttc taccagata acttatctgt 120
ttccctccgc cgagacaagc agcaccatcc cattatccac cagttctgac cagcaaagaa 180
gacccctgt ataaataaat ttgtgttctg gactacatgt actgaacagc ccggatggat 240
gaggccctcc ttccagctcg tgatagcacc tgcgacacag cgccttatac aggcacaagt 300
aacaaaagta caagaagtag acattctcaa gtcctctccg acagttcaca cattcatcca 360
aatagttggc taaagcctgc atattcagac catcagcatc atcattgtca acaccctgac 420
tttctgcctt ccgtcggcga aacaagtgcc ttctagcaac tgagggagtt ccagtgtccc 480
gcccttattt gcttctagg gttgtcctac tgcatacat ctgcccacta catgtctctc 540

agcatcctta agaagatgca gggctatgtg gtgggtcttag cggctatcta gatcagccat 600
 aaatgtcttg aacagtgtca taaacacctg ttgattattht aaaatattgt tgtagatag 660
 taaggcaatg taatatttca cgcgcccctg gagaacttct ctagcatttg taacatctct 720
 gtatttttgg agccacatta atatgaccaa agaggccttg tttaccttat taactgtatc 780
 caatactaaa ggggtactgct tgcttggtag agtatctggc agctctaggt acacagatac 840
 tagatatctt attaactaat ctgctgggtg tctaacatct gaataacttc tattactact 900
 atcaagggtta tctattaaac aaaacagcct ggcaccaccc gtcgacgcca agactaactt 960
 aacctttaga gaataatact gttgtgagta gatacttctt atacagaaca aaatcctgcc 1020
 tctacttgta atccctgccg agcctcttca tgactgctat agtatgttca atattctcat 1080
 tatcatctaa agtaagcact tattgtaaga catgatagat actatgagaa aatcagggaa 1140
 atatttgcaa aagggaaact ctcaaaatca tcagtctgaa gttgtcctct nctgtgttct 1200
 tgtagtaatc cacagcatat ttaaatacca ggcatagtg ctggggcctg tgagggttaag 1260
 gaaaaatatt aaagattag 1279

<210> 2591
 <211> 1029
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2591

ctgggcgaaa ggggtggcccc ctacagagga ggcgatgcag gggttgtttg ctcgggtggc 60
 ttcgctccgg gctaggggtt ttgatgtagt ttgagtcgac ccccgaaactt tggccgcctg 120
 ggggggctgc ttgctccggg gctgcctaag ttcgtggagg ctctagggcc gccgcttccg 180
 ctgctgaata gtggcggttt ctgagaggag gatttagcgt ctggagaggt ttgcatcgag 240
 tcaccaccaa atgccgtatt ttgcgcaaag ggatttggct tgtccgcctc cgatggcgcg 300
 aagatgttcg atgaagaagc accagtggac tggccgaaga tgcttccgtt tgatggagta 360
 gcaatgccag attgagccga ggggtccatta ttagcactgc taccaaacag tccccctgca 420
 gagctgctct gctgagacct agctccaaat agccctccag acggcaaagg ctgttgggcg 480
 ggagactgac tcccagtcga aggcacatta aacaggttgc ctttgaagcc ggaaaaactg 540
 ctcgcgggcg cttgctgact agcaccgcca gtattcatag atgcaaaagg attactgaca 600

ggtgttgatg ctgttccacc gaaagaggca gagaaattga aggccgatga accaccacca 660
 gagccaaaag agaattgtga tcttccgttc tgagcaggcg gtttaggagt tgggctagcc 720
 ggaggaaaac tttgtgattg cccaaaactg aaaccgtttg tcatcggttg ttgagcaaga 780
 gatggggaag agactgtggt cgatcgatc gaattgaatg gcgaaccaa cgagccacca 840
 gccgaaccgg acggtgtgcc agcacgcggc cgccttcgaa catccttgat tctaaatacg 900
 tcgttagtca atgcataaga tgtgatatgt ctagaagaag catatgcaac cacggcgaac 960
 gcaagggtaa aggtactggg ctacagtga aacaaaaaac aggaaaggta acaagacca 1020
 agaaaagag 1029

<210> 2592
 <211> 1680
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2592

ccaagtctcc aggtatctgc tgacggacat tccacaggcc atgacttttg gcatacagct 60
 cccctaccgc gcttcaacgt tccctcggtc agagtgagcg atgggtccaa cggcggttca 120
 ggcaccaagt tcttcgacgg cgtccgcgcc gctgtcttc cttgtggcac cggcctggcc 180
 gccacatggg accagtcttt gcttttcgat gccggtgttc tcatcggcc aagatgccta 240
 gccaaagggtg ctactgctg gctaggacc acggtgtgta tccaacggtc gccccttggg 300
 ggcagagggt tgcagtcttt cgcggaggac ccatatgcca ccggcaaaact tgcgcgcgcc 360
 tacatccgag gtgcccagtc caccggcgtg atatccacta tcaagcattt cgcagcaaac 420
 gaccaggagc atgagagaat tagcgtcaat gccgtcatga gcgagcgagc gttgcgcgag 480
 gttcatttgt tgccctttca gatcgctatc gccgatgcag ctccggggcg agtcatgaca 540
 tgctacaaca agatcaacgg gcaacatgtt tcggagagca aggagatgtt ggatggtctc 600
 ttgcgcaagg aatggggctg gaagggcctc atcatgagt actggtgcgt ctgcattacc 660
 acgtccgatt cgggcagatc atttgcttac ttggccttga caggtttga acgtactcga 720
 ccgccgaggc tctgaatgcc ggccttgacc tggagatgcc tggccccaca aggttctgag 780
 gaccgttact ggagcttgcg atttcgagtc gcaaagtctc ccgctcaacg cttgacgagc 840

gcgccaggac cgtgctcgaa ttcgtgaagc gagccaacaa ggccgaggtt tgcacagtcg 900
 agagcacacg agactttccc gaggatcgta ggttgaaccg caaacttgct gccgatagca 960
 ttgtcctgct taagaacgag tcggggcttt tgccactaaa cctgaaggcg ttgaagagtg 1020
 ccgccttgat cggggccaaac atgaagaccg cggcgttctg cgggggaggt tctgcgtccc 1080
 tccagccata ctacagcatc tcgccgtacc agggaatcat gaaccagctc cctccgggcg 1140
 tcgagattat ctacgagaca ggcgctagtt cgtatgtttt tatcccggag ctggaggcgt 1200
 cagaagtgcg cacgccgga ggcagcctgg gcttcgaatg cgcttctacc gagaaccacc 1260
 ctccgtcaaa gaacggcgcg tggttgagga aaccatccta caggagtctt cgtggcagct 1320
 gatgggcttc tccaaccac aattggaccg gctcttctac gcagacattg aagccgagtt 1380
 gattgctcct gccactggtc ctttcgaatt cggccttgct gtctatgggt ctggcagcct 1440
 ctttatcgac gaccagctta taatcgataa cactactgtg caacgagggg gcaatttctt 1500
 cttcggcaaa ggcaccggg aggaaaaggc caccgtggat cttgttaagg gtcagttgta 1560
 caagattagg gtggaattcg ctagtggccc atcgtccaag ctcatgaaac cgggggttgt 1620
 gaatttcggt ggcggcgctg gtcgctnggg aatggttcag gccatcgatc cggagctggc 1680

<210> 2593
 <211> 1980
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2593

agcacaaaag tgataggctg tcaggggaaa gtgtgggtca gaattacata ctatggatcc 60
 gttggaggat ctgttataca gtgacgatgt atgggtgtga caggaggtgt tgtttgggtt 120
 cttgtctgac tcgtaacggc aatactgaag cttttattgt cctgaagact ggtagcatac 180
 gtagactaac tacgagaatc tgccggtctg atgctggatt ctgaagccgg caacgaggat 240
 acgaatTTTT tttccacggg ttttctggcc aaaggagggt tactatgctg aggtgcgtga 300
 tgctgatgta cctgcgtcgt cagtgggttg ccaagggtgt attcgttcgt tccttgaaac 360
 cttctggaat cctgcccga cgcgtacttc tatagagttg cctactttag tctcgtacaa 420
 cagatactta gcgtatatta gttgtttcat gactgacggg atcgtgactc gatcgttctc 480
 ggcaagccga aaactttgag cttgctcttc gccttcgcct tcagcttttc ctattcaggc 540

tcgattcatc caccgtggcg agcattttat tttcctctct acgaaagctg agcgtcacca 600
 ggttccattg tcgtttcagc cccagcgtat cgacttccaa ccgcccccg tgcgaattct 660
 tggccactcg agactcgaat tgtccgaagt ctctccggaa tgaagccgcg ttgtttcccc 720
 tgcaccgccc caccaaccaa ttgattctga tagtgtctga gcgagaataa ccgggtatgg 780
 ccgagccgac tcacagactt caaaagtggg gtatacgtac acataaaaaac cagatcacga 840
 agtcgttcag tcttgaccgc ctaactcatc cgagaaactg gtagtctaag actagtacta 900
 gtagaaagac ggtgtggttg aaaatcttca cgatctgccg ccgttgatgc ccaattgatc 960
 cacagataat cataatagat ttttttttct ttgattctgc ctggcctgtc gagactcaag 1020
 ttctacagag tactcagagt tacgggggtc tgagtctttt cgtatgtatg acccagaacg 1080
 gttgtcagac tggcggtttg gttgcaggta tttcgcgcac aagccactg tagattcgtg 1140
 atactgcatg cagttgggac gggacctgtt tctaccgtca acatccacta cagtacatgc 1200
 agagacaaac ctgcgaggtc tagcagctc acaccatcgt cctattcggg actaaccaag 1260
 cagagaatga ggactctgag actgaggaac gaccgacaac tcgatgaact ccgggggaaac 1320
 gatgatcccc ccgctttgtg catcacctct aaaatatggc tgaaagcttg aaatgtaacg 1380
 gggcggatag acggagtgtc ctgcgtccgc agttgtgcta gggcgtgtc agttgatgta 1440
 tgtggttccg agaaggaat gattgcacga ttaagtgtga gaccgtata ccgctttact 1500
 gaaatcgcac attgcactct ccataacagg caaccacaga aggtatcctt ctggtaagag 1560
 gtcgaagctg aagcggggtt gagcgggatt tgagactagt catggtccaa aatcgtgtga 1620
 gattcttgtt gtagtcactt aaaccacacc tttctgcatt cgaacagagg ttgcgcaatt 1680
 taagggtaaa tatgcttggg gctgttactc ctcgagtga taaaaagcag atgaagacgt 1740
 cgatatcgta aactctgtcc taagggtact tggatgatgt cttgggtgtg gtcttgggtga 1800
 tggatgactga tagtgatgcc gtcagcggtc atatgactgc ctggccagtt cccacatct 1860
 gaggatcttg gatgcggagt cccacaactg aactcatc tgctcggttc tcaagcggcc 1920
 actgccacgc ctagatgacc atgggactgg tgccacagcg agtgtcgtg gttctgcgaa 1980

<210> 2594
 <211> 1648
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 2594

ttaaatacag agtaatagac tggctcctggt gaaaccattc acgtgctcaa tgcacgggaa 60
attgttgctg ctgataaaga cctggcgctt caaaggtttag atattgtgct gctctgaatt 120
catgatcaag tgctaaactg taaaaggata tttacaacat atttcttatt tgtcaacgtg 180
ggttcatctg ctgcttttagc ttccacaatg atcggacaga agtatgggct cttgacaata 240
tgaccagttg cacataggga tgataacatg acagatataa taatttcaac tcttaccgaa 300
caacgaagct gttggactga aaaaatagag tgacgtgatt atgttagtct atcatttagc 360
gaaaccttac agtttccttt gcttaaagaa ttgattagag aggggatgta tgtacagtga 420
gattaaaaga cggctcctaat aagccaataa atgtttgccg gtgccctttt caaccgtaaa 480
taaaatacag gtttccact ttaactgtgt tctcttgga tttacattat caagggctct 540
ctaacgacat aggccagctt cgttacacgc catcgacgtc ctacactgac agcatcaggt 600
aaaaagagga cgtaactctt gctcccagtt gaggtcttca aacaacgtca taaaatccat 660
ctctgtatct ccaagtaagc caccttcacc ttctctagtt tcatcgggta cttgttcaga 720
cgtgtcgcct gggcgagggtg aaaggacaaa atcaggacc tgtcgaatat atgagagtcc 780
tttcatgcaa gtatcgtaat cactttctct ggaggaaaag aaggtttcga tatgagctgc 840
aaacacactg agacgttgaa taatctcgga ttgaggaaag ggcttttcgc ttgtcgattg 900
gtctgctgag aactgtgagc gacgcagcaa tgatttcgac agcacggcag cagcgggaag 960
accgatgtaa gaaaactaag tatcagacga gaggttataa gcaccagaag agcagttaca 1020
gtcttcatgt gagtacgtac gtcgaaatag gttagatgat tgacacgccc tgtccggatc 1080
tgtttgaga ccagatccag aagaagtgag agaactctgct gtgacgtctc tatcaaggag 1140
tcgggagtct ctctgtcct ttttgcaacc gtctgataga ggagaaaatc ttgataaagg 1200
aattcaagat gaagcgaagc tgctagtgga tgtgggttat agngcgnnnn ncnaccnann 1260
nnnccaccan ncnncncaen ctcatgcana acatnannnc ccacnannna tcccctataa 1320
agcatggaga catacctttc aatttgaaa tcttgtttcc tttactact tcttgatag 1380
aaggccgtat ttccattct gtcttagatt aattccaaac attaaattct aacagtatct 1440
accattagca cacgctttgt tttactaatg tggacaacat acccgacccc tcgtgtattc 1500
cgtccaatgc ctttctctac cactaaagat agtcccatta agccatgtac cgagctcttt 1560

tggtttggcc gctccaaatc cttttctaac aaaagctctt tattgcaagg gatttctaga 1620
gtttttttta ccccggtttt tcctaaag 1648

<210> 2595
<211> 1856
<212> DNA
<213> Aspergillus nidulans

<400> 2595

agggagagaa tagagtgaaa ttaatatata ttttctcccc taaatcaaaa aaaaataaaa 60
acttttttat tttccaaccc aaacttttaa aattaaaaat tataacttccc ccataactta 120
atagagacaa aaaaaatatg tatgccagag gccggattcc cttcttcttt cgggtggaata 180
aaaaccaagg ctcaagtgtta cggggataaa aaattctttt tcaactaaag ccaagctaga 240
accaccccat ttccagcaac cgggacccta tgttggggga cgcactttaa gaccggacga 300
aaggctggct tgactttttg caactttacc gtattcggct ggcttttaaac gcttgcattc 360
tcgcaatggt atacttgggt caacaaaatt ttaccggaca gagtaagggt aagattttta 420
agacgggacg gtcaaaggga cctggacagc aagacaggcc gacgggaaag gcgagatgga 480
tgtgggtaag gctgtgatac ggacgaagct aactagctag atagaacctt acatatggta 540
tggtcaatc gtgacagact actctggcga gacaacgtcc ggcctcacca tgaccacatg 600
aaggagaact ttctccgctt ctgcccagtc tctttctaaa acggacattc cctttagcct 660
gagatatcta aaaggtacac cggtagggat tgctgcatgg ccaactgcagc tataaagaag 720
ttgggcatag agccgcagcc ggaaaggatc ctttgagatc gctctttatc gcgactctcg 780
caagtagaca catttcgcca gagggcttct cagaagaagg cgaggggtctt actagcttag 840
gataggttga gatctggttg cctgacaaga cttttagaag cagagaaaac aagtggaaag 900
agaaaagcac atttaatagc aaataaagtg gcaggggtga gataccctaa atgggtattgt 960
tatgattcta cccaatatag agagagacat agaatagggc acgagctcca cttgctatga 1020
cctcatcgat caataaccac catgatgaca ttcaacacct acgccccaac cctttacatc 1080
ctgtagtacg atgtctcgat agccctctga caatgccata tctacaatgc aaagcactac 1140
cctcgacatt tggctggtac gcacgcgcc tcccttcacc aatatcta tcaacttctca 1200
acatccaaac attgacttca cttccagtct ggcgcagtcg cagttgtaac agttgatttc 1260

ctcgtctacc ccttcgacac gctcaagact cgcgtccagt cgccacacta cgcagaaatc 1320
taciaagatg cagccacgaa cacgatcaag aagggtgtgc tttcccgcg gctataccag 1380
gggtgtgtca gcgttgtgtc gagtacaatt ccagcttgta ctgggcccc atccccaga 1440
ttcaaacgag tagggatatt aacagttggt gacacctcgc agcaggagca ttctttacaa 1500
cttacgaaac cgtaaggtct accctcaacc gaactaagca agcttctgcc ataccatttc 1560
ttcaatcagt ccccgacccc gcgataaacg ccatctcttc atccactggg gaaatgggtc 1620
cctgtctcct ccttacacct gccgaagtca tcaagcaaaa tgcgcagggt atcaacaact 1680
caccaagcgc caacatctct gaaaagctaa aacaaggtgg aaccagcgta accctccaag 1740
ttctcagacg cttcaagcag caaccttgga aattgtggag tgggtactcg gcgcttgtag 1800
gacggaattt accgttcaca gggatcaatt tccgatcttt gaggcgatca aggggt 1856

<210> 2596
<211> 1991
<212> DNA
<213> *Aspergillus nidulans*

<400> 2596

ctaaacacta ggtggaccct tgagtgttag gtgcgattac atgccccacc gttagtttgt 60
agtgaatgca ggagacgggt ctgtgcatga gataagagtc aaggggtcaa atgataaatg 120
aatttggtctg tttatgtgtg tttcggggca ccccttcgtt acgccggatc atagcattcc 180
aagctgcctg tgataggtag gtgcccttaa agtgataata cctttctctg tctagttaac 240
attcaaaatc ttggatcaat cagcaatggt gcagcctgga aacgtaagcc tatatttaaa 300
tccatcagct cactcaatga tccatcgaag atagttgctg caaggtatac aggcagtttg 360
tctccagcac catgctacat ccaattctcg aaactagtgc cctgaatggt atcctggtag 420
ttacatgtaa gtacacgctc gttacagtct ttgatcactt ttatatcctt ttttgctgac 480
tatgcctttg atataggctc ctacgtcctg ataatcggtt tcatttcatt gaaagtcaag 540
caaagatggt accttgggtga agcttgtacg tatctaactg atctaattat caattgcttc 600
cacctcggtg ctgatatctt gtcttctagt gcctgctttt gccgttggtg ctgcttttgg 660
gccatctgct gcgaatcttc tgagagtgcc ccattatcga agcaatgaaa gcgagacacg 720
acaagcgaag tgacatatgt atgtggtgcg aacacattag caaggtgtga ctgacaaacc 780

taggcattgg ctgcacttgt gatcgggatt cagttgggta aagccggcta tgagctgcca 840
aagagatatc tgaagcgccg ccttaaggaa atgacgttat gcctgcttcc tttgatggct 900
ataggatggg tcgcatcatc agcttgcac cagttgatgg ttccgcatat ctcttttgtg 960
agtcctctctg cttctgggtat acgctttaac taacccatga cgggatgata gcttgcactc 1020
tcattatcgg gtccctgcgta acttgcacag accccatttt atcttaagct attgccaagg 1080
gcccttggac tgacagtgat gtccgcccac atctccgaga gttcatttcc tccgaggcag 1140
gcggcaatga cggctttggg ttctcattcc tgctgctagg cttagcacta ctccgatacg 1200
ccgacacgcc tgcaaatgcc gctgtattag aggaatttga tctcaccaga ggaggtgcag 1260
atcttcttgg ggcgactgac gtcggacgct ttgggggtgg ggcggggcga gctctgaagc 1320
attggtttgt cgaggggctt ctgtacatga ttatcctagg tggcgcttat gggactactg 1380
ttggcttcat gtgccgaaag gtccttactt tttcatccaa gagggatttg cgcttgcctt 1440
tgtgttaatg ttcattggtt agtggtgatc cttgagtatg atatgtctta cattccatgc 1500
ttaacactgt tttctgttta tttgggtatc cctattcgca cttttctctg tcttgccttct 1560
acataactt gccctgctct atacatttac attttaattc tatgcttttt tctttgtctt 1620
tttcaatttc ttttttgtct tctccctatt ctcttctcca ttttaatttt tctccttacc 1680
ctattttact ctattctttt atcttatctt tttcttttca ctacatcttt attattatac 1740
ctttttcttc ttttcttatt cttcttaatc aaatcctttt tactttttac atcttattta 1800
ttctattttc ttcttctact tttttacctt tttttatatt atctcattct tctatattct 1860
ccttctcttc ctcttaattt catttctatc cactttcttt cattacatac tctcttacct 1920
ttttctttct acctttaccc tcttctttac tctcttatac ctcttcttca tcaattattt 1980
atttaacttt a 1991

<210> 2597
<211> 2557
<212> DNA
<213> *Aspergillus nidulans*
<400> 2597

tcgtgcggca gtacgactcg tttaaaagtt agcattcccc gtggacttac ctcagtatgt 60
ttataatcat aaactgtcct caaatttaga gtgcatcgat tcttctggtg aatacctctg 120

gaacgacatc gctgtattga acaatccctg cgccgccaca cccaaggcat gctgcatttc 180
 tgccaaggat acgtactggg gggacatggc cttcaggaac ccatcttggg tgttttttag 240
 agcaaccaga gccggetcat ggggatcgaa cttcaggcga caaacaagca tgttgatgaa 300
 tggaccacg gagtcctcga tcccatcaag aggagcatca cggcccgagg tcagataccc 360
 gtagcagaca gagtctgttc caataaaagc gcgcagaacc agggcccacg cggtttgaac 420
 gacgttagca acggtgaatc cccagcgttc ggaaaaggcg ctcaagtgtct cctttgtcaa 480
 gccgggaagc tcaacattga tcgattccag agcctgagat tgggtctcggc cgtcattaag 540
 aatgggaaac tggcagggct gagcgtcttg gaggtaatcg ttccagaaat tgaccgattc 600
 ggccctcttt gcttcttgga ggaagctcac gtagtcgacg tatgcaagag ggggcacgct 660
 gctgagtttc ttgctgtagg cgcgcttcaa gtcccgtca atgatagcca tagatgtccc 720
 atcgatcaag gcatggttga tctccaactt gcaaaacatt cgaccgttct cacagtgaca 780
 gattgctaata tgatggagct ttgctgtctg aggtaatgtg cgtaaagcat ggacagggtc 840
 gtcgctacgc agtccacca cttgcgcct caactcttcc agcaccagct ggtcgttaagg 900
 tcggtctggg acagcacttt taatgaaaac ggtccgtagc atcgggtgcc ggtcaataac 960
 ctgttgccag gctgcaacca actgtgcact atcgactccc tcgcgggcag tggcctccat 1020
 gatggtgaag aactcgtagg caccctcgga tttcaactga ctcatcaaca aaccagttg 1080
 cataggcgag caaggagaaa ggctctcgat ctgctcgatc gacttgactc cagcttcagg 1140
 taggatggag gtagccaggt tatccaagtc tttataggac aagttcagga gcgggaaatc 1200
 gctaagtgtg ggaattaatt cggactgcct catgagttca tcgataccag tctcgaggac 1260
 ttgacgataa tgattgatcc aagaacttat tgtatcgga tggctcattt tcttgttata 1320
 ctcgaaagtg aactccatcc gccggttgga gacccggcg gcgatctcaa acaaagagta 1380
 acgctgcacg tgagggctga tctcaacaca atcagttccg gtgatagaag actcttgaaa 1440
 caaggcgctg actctctgca gttgctggta aagaccgagg taattgaaaa caacctccat 1500
 atcctgcacg ccgccggcca gaagagatcg cgcagtaaag taccgccacc cattgtgggc 1560
 aatctttcgt cggctgtcct tcaatctttt gacagcatca agccagttgt cttcgggagt 1620
 ctcgtagctg acgggataca tggctcgtgaa ccaaccact gtgcgtgaga catcaatggc 1680
 cgatgtccag ggttcacggc catgtccttc taggtagacg gcagggacat ttcggtcaga 1740

gaacgcgtga cggaagaat gaagcagtgc agctaccatg atatcagtcg gctctgtgcg 1800
 caacggaata ttacagtctc cgagtagcag cgcggtcctc tgagaatcga tgggtgaagga 1860
 ttcagtgaca atatctcccc agttattggc ttctccctgc atgttccagt aggccagatc 1920
 acctgtgggt gcctcaaggt cccaggtgtc tggttttgac aagtgctggg agacatattc 1980
 gcgttgcaac ttcgccaat tctggaagga aatagtggga gttgagttga tacggccagt 2040
 cctaagcaca tcctccaaat cctgcaggat aattcgccac gataccagat caataaccag 2100
 atgatgagcc gccagaaca gatactggct ctcgggagca acccagattt gggctgtcaa 2160
 cattggggcc ctttttatat cgaagagagt ctgagcctcg cggaaccggg ccatcattct 2220
 ctcccgacta ccctcttctc tagggaacat gaaaaaggat ccagaaacat cgttggtgat 2280
 tttgtgactc caggatccgt caacctgttc gaaccgggct cgaagctaga gtggtgttgt 2340
 acaactatit caagcgtctt ttgaagctcc gtctgtagaa catcttgggc tagcttcaaa 2400
 acaaagcttt ggtaaaatg attctgccct ttcgctgctt cctgaagaac agctgtgaat 2460
 gggagcgagc tcaaaccatt cgtcgatgac ttcggcttct ggcgcccggc tttttgttga 2520
 gactgctaata gtatgagctc gcccgcaaga gcagccc 2557

<210> 2598
 <211> 1475
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2598

ttcccagatt ctgagtatgc aaatgttgtt gtgagagttg tgtattgaat gcgaaagtgt 60
 tcacgatgca atccaaaact taaccaactg ttgtctctta gtataaaatg acccttatca 120
 accgaaagtg agaagtctca gctgtatgca ggtaaacaaa cgcaacgcgg cgtccaagct 180
 gggcgaggagg gtccacggca gcttcttaag gaaggggctg ctgagcctta tgaccttaca 240
 ctgcggtcaa ttttcattct gccgacgata atacctgaag accttgcata accatgacaa 300
 tatgggtcca ctcgcatag cgtgatcgct catcggcccg atcgacgagc gtgctgttca 360
 atttgacat gaaagccgag accgccgagg gggaatcccg tactcactcg aaaaccgctt 420
 cagattgcgg tttgttctgc agactgttca taataatccc agttaaggat gcaagcatac 480
 tttttttcag ccgcatagct gtcgtggaca accaccacta tctgtgctga cgctcttacg 540

tggccgtggc ggctaacgcc agacagtatg gtactcgtac atacaatata gcaatttctg 600
 gacatcggtt tctatatgat aatgagctta catgtgggct ctctatttac ggatcgataa 660
 ccagaaggct ctatcggcaa gtcgatgtc agcagaccgc gtgctatagt actcataccg 720
 gtctatacac taccacgcca accaagccct aaccgaggca cagcggaagc ggtcaagctg 780
 tcaggctggt aggctgtcag cccattaccc acacgtcata actgcaccct gaaccatttc 840
 gcagacggca tctattcctc cgatccccga atgggtccga caagtcatcc cgatcagcca 900
 gatttctatt cttggcgaga cagatacagg tctaacctct tgatccctcc cgacatgccc 960
 aatctcgctt atcacggcct tcttcaacga acatatccat aacaacactg atcatctgaa 1020
 agcctctctc cgcatacgcc ttcccgtatg ctccagtatc acaatacacc ccaacggttt 1080
 tcctattctt tttttcagcg ggaacagctg gatcgaattc cgcagctaag aacctaattt 1140
 cctaatacgc cctgaaacg gccatccaat ttacattgga acaagggccc aagaagagca 1200
 catggagcca tcgacggccg atgggatgat acttttgggc gccctcggct catttgatgg 1260
 tataaccggc ctattaacac tgcatacctt agccggagtt ttattttcct cgtgcgggaa 1320
 caaaattccc caggcatctt acccttttcc gggaagactt tttctcattc cttttcacta 1380
 ttttatcaca catctccgc cgcgttatac cttcatcatt cactcttact tcctccatca 1440
 ttccgtttac ctctacctt aactacctac atccc 1475

<210> 2599
 <211> 2719
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2599

gtggcttgca gattaacca gatagggcat agcgcatctc tcgttcacgg gtattgacgc 60
 gcgcgggttc ttacctcacg cgcacggcca acctcaaatt cctcccgcca accttttacc 120
 aagagctatt catatttctt agcaaagccg ccaatcctgc tcaaaaacta gcttgtcaat 180
 ttctttttat ttccctcaat tatctaccgc tcggcaccaa attcgctcgt ccgcgttcaa 240
 cttegtcag catgtccctc aagcgcaagg cttegtttcc aagcatcgca tctccacaat 300
 cacctcagac cgcaattgac cgacgcttca tggacgacag cccgaaacac cttcattgcc 360
 ggacaagaaa gcggttgaga aacgaccgcc ctgacgacca agaagtatat ggtgggcccgc 420

cccatctgcc gcccaatgct ctcccaaaag catgctgacg ctagaaacag acaaaaccct 480
 tcgatggctc tttactgctc agcagcgctg gcagcaagta cctaccccg c tactgaacc 540
 ggaacaagac gaggacatgg agcaggaagc gctgcctgca ttcgaccctc gccacaac 600
 actgctacag ttctttcgtc gcaccaacc acagccttat cgtcagccct ctcaacaacc 660
 ttgcccttcg attcctatag accagttatc aggcgagcca gggccctcgc gaagcggaaa 720
 tgggttcttg catggctcgc acgtcgggag tgtctcaccg tcctctgcaa gtgatagcga 780
 aacattgaca ccagcctccc agctcgtcga tcgtgacatg gacatggata tcaatatgaa 840
 ttggcacacc tagtcggaac cacggatgga tgggaagata attttttgc taaatcggg 900
 caaggcttct atttgacgat atacctgct tttataccct ggtcctatga tcgtggaccc 960
 tgcgttactc tgctttctga ttgtgtctct tgttgcttgc tcaagcgttg catttgattc 1020
 taaagggcca gtgacgctg gcgatcatag tgtcccagcg aacctgttt cacggccttg 1080
 ccttcatttt gaagtgtttt tttcgcacgt tattacctct gatgccacca tatcatcgg 1140
 accgatatc cgaaaaagcc cacagtgtct gtataaatga taattctaca tttctgaagg 1200
 aatatactct atatgaacag tatatggcca agttgcatga gctaatttat ttgacctcta 1260
 acacagtcac caacggcgta ttctctagcg acaggtctgg ttctgtatc aggggcgcgc 1320
 acttgagtag tctggttgct attcgtagaa ctcaagcgcg aacagcaaga cagacatgat 1380
 acaacttggg cagagaagcc agtcagatag gttagacaat ttcagtatag aagcctgagc 1440
 agcgaaaaac gttggcctag aagatagcca accactcagg ctcatctgtg tcccctactg 1500
 tactccgtac cccgtgacct cccatttgtg gtaaagcaat agacagaggt ctagagctga 1560
 cactgacaga atacagacac aattgtaatg tcgatgtcta cccctgagcc aaactccaac 1620
 cagaaccata aactgagaaa caagaaatac gcgtctgtac tccgtactac gtacgcattc 1680
 gcaacttgta ggcactcgcc ctgtcgatcg cgggactcgg ctttgcgaaa ctaagatccg 1740
 tgcacgaagg ctggcccgga tccgatagag ccggaagcgc tggcagctga caggctggcg 1800
 aagtttattt atagtatgcc gggcctgtgg ccaatcaaac tctgccactg aacgcgggga 1860
 aaccccttgt cgtgtagctc aatccagcta ttgattgtag ggcaatgcca ccatgtaaca 1920
 gttatttcga cgatggtgtt gggatgaagt cagggttagga gctggggagc cgagactcaa 1980
 ccaggtataa tggtagctga cgtagtgcc cgatcctgat tcgaagccac ggtaacgcag 2040

tgagacagtt atgcgagtga tcgcccacg caatttaacc tgattcaggg ccagggctgg 2100
 aattcagggg cggggtcgct ccagcacccc actctcttgt caacattttt gagctggtaa 2160
 tttcgcttgc tgcacgtaga aaagaaagtg tcgaatgata atatatgtat ttccacatta 2220
 aatatggaca ttcacgctaa gaggaaaagg tataaagcgg tacaagagaa aaccaagcca 2280
 tcattagcgg attaaaagta aaagaaagg atcgcaaacc gcccattcc atgtaaaccc 2340
 ccaaccataa gatgaccgat tagatgcatg tcgtatgcc tggaaacata agttagaagt 2400
 ggagatccat aaaagaaggg aaaaaatata agaataaaag gaaagtttaa taatgaggta 2460
 tcatgacaga aaagaaaaaa atatagagac cgtaagttg tagtatgttg taaagaggaa 2520
 ggtcttcaaa gggaaacctt cattgcgtcc tgccagatgt gcggacgtct cggatccctg 2580
 gctgcggact gctgcttcat gtcttcagg tcatcattcc catgatgcaa gaacgacatg 2640
 tgcaaggcgg ttcttgagat gattcgtaga agtccgataa tgagctgagg ccagccacaa 2700
 gcgcgacaat cggaggata 2719

<210> 2600
 <211> 1933
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2600

gggggcctcc ccttggcttt ggaccttag gggaggctat tctactctaa attttgcagg 60
 gaaaatccat tacaagtcct ccgggacgcg gggcctttta tccaagagga tcagccggcc 120
 gggcaagcca aattttggtc gctttttcaa acggaatgtt cggagcgcgc ttgtctttcc 180
 tcctaaagaa gccgatatgc aggcttcggc tccaataaag aaggagcgg gagccggtgt 240
 gcctctgggg aaagctaaag gtggaactac aggttccttt aagcggcttt aaaaaggctg 300
 aagttttcgc gttacatgaa gctggtcttc ggtgcgagta atagacggag aaatttgcta 360
 agtaaagaga tactataatt acatcccggtg tttacgttac ctttgatgga gtgccttctg 420
 cttcatctat agccaaccaa ttgcagctac acggtacaaa tacatgttaa atcaccgaaa 480
 aacaccacgc cattcaaccc agccgggacg ccgtccgggt ggtctgaaag tccatgcaga 540
 ataagatccc agaaaagtat gaggtatgag gtaaagaaga gaaaagataa cgatcacgaa 600
 agcggaaaaa taggaggggt atctggcgtc agatagtcac acaatatacc cagcctcaga 660

gacatgcaag ccagtcaagg aagataagcg ccgccagcaa taatcaaatt catgttggtg 720
aatttcacct tgtagacggg gctcttctta gtgggaacg cactaatctg gtccggtgtg 780
acaacaacgt ccttgccctt cttcttgccg ctgcccattc ctggcccaac ggtgccaggt 840
gtctgcgtag aattcgcggc agcggaggaa gcccgtcaa tcttcgtgcc tgcgccgcct 900
tctccggcaa cgcggccctg cgacgggtca tgggcaggac ccataacatc ccataactga 960
actgtgccgt ctgcgccgcc ggagacaagc acattagatt ctacactoca actaagcgac 1020
caaatgcccc cctttccgtg gccgcgcata cgcttgagga ggcggccggg tcccagatcc 1080
cagagcaaga tagaccctg gtctcccg cgagcgagg ttttcccgtc gcggctgcac 1140
gccagggctg tgatgtttcc agtgtgaccg gtgaacatgc gcaactgcgtt gccggtagta 1200
acggcccaca tgcggtacag tgcgggtctaa gcttcccggtg aagacataag cggagttggg 1260
gtggaagcag acgcagtcga cgtcttgctc gtggccgaca aagatgcgct gttgacggat 1320
gtgatcagtt acccaaagcc gggcagtttt gtcattggccg ccggagacga agtagtggcc 1380
gaaggggccc cattgaagat ccagaccgg ctgatcatgg cccttgtaga caaccatgca 1440
ctgccagaga tcaagggacc aaaggcgaat ggttcggctc gcggaagatg aaaggagcca 1500
tcgggcgttt gttggtgcca cggcgttctc actgggggtg gctgatggg caaatgccac 1560
tgcatataca ggccccgaat ggccgattaa gcggcgcgaa ttagttggg gttcatctgc 1620
actgtcgtct gaagggattt tctttccatc taggtccaa acgcggatgt atgactcttg 1680
cataccagct gcaacgagca gattatcatc cgagaaatca aggcagttga tcctaacct 1740
attagcgatc gaccctcaga gacggatcta aattgactaa cccgtcataa gtgttggtga 1800
aagtgaacat gcacacacta acggcaggac caacgcctcc tgccttagat tcaatccgaa 1860
acctatcacg attctccttg actttttgca cctcaatgc tacatccgc gcagtcgatg 1920
gcggatacgg gat 1933

<210> 2601
<211> 1298
<212> DNA
<213> *Aspergillus nidulans*
<400> 2601

gcttacttgc cgcgtagcac cgtatttcgg gacgcctgga ggagctctgt tagtatgtac 60

aggccttttct ttgggaccga accccactca cctgtagttg agtggataga ggccatatta 120
 acaatcgacc cgccattagc gatattctta agctccgcgc gaaggcagta catcagcccc 180
 gtgagattaa cgccgagtat tcgatccac tcgtcatcgt cgagctctgc cacgcctttg 240
 acgccgtggt ccttccccac tatgcctgcg atattggcgg cgcgtaaga cgctggtatt 300
 tcgttaggat cgacgcgac caacaatcga cctgttgtct gttggagacg tctacttgag 360
 tgattgtgta ttggacgacg ggtgtcttgg agctgaaata ggattctgct tcggcgagag 420
 tggtcggggt gacgtcggct atgcaaacgg tgccccgcg cgaggaaagg agcttggcgg 480
 ttgcgagacc gatgccgctt gcaccgccag tgatggcgta gactttgcct tggagggaca 540
 ttgtatctaa cgctggatat ttgttgcttg gttggagata gctgtttgag gtggtgcgaa 600
 gctttgtcgt attagttggc atgcggggaa ctcccatagt ggaggtggtt gtactattct 660
 ccaacttctc cgtctttatc ccgccaatgg ctggctcttt caattagtat tatttcctta 720
 gtcaaagggt tctgaaaggc ttaccagggt ctctgtgcc ttatagtttc ctgaagcctt 780
 cgtaatggca ctccacaaac ttgcggccat atcggccata tcggtcaaga gtcattgttc 840
 cgtctcggc cgaggccgct acgaccgtac tcgctctata aaatggtcac ttgtaactat 900
 tgaatgtggc atttgaagct ccgaattgtt ttcctcttct aagtgcaaat agtacaatta 960
 tctagacatc tatgccagcg atgaaaatcc tcatcactgg cgcggggatc gccggcacag 1020
 cgctggcctt ctggctctcg aaactcggcc acaacgtcac tgtgatcgaa cgcgcttctt 1080
 cactgcgcgc aagcggattg caagtgcacc tccgtggccc tggcatccaa gtgcttcgcc 1140
 ggatgaagct agaagaaaca ttccgccagc acgctgtcgc ggaacagggg cttcaactcg 1200
 tggatcgaag aggccgaaga tgggggtact ttggcgcaaa taggtcgggg aaggggctgc 1260
 agagcttcac gactgacttc gagatcatgc ggggcgat 1298

<210> 2602
 <211> 1412
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2602

gagccaccca gccacaaggc aagccggaaa ctgcggaata atctccgagc ggaaccaaatt 60
 cttccaagaa tgtctcacga tattcccatt caggctcttt ctaattactg accgtcccca 120

ttgttcattt tgcctccact cccgcctctg tctattcttt cctggccctc tcgccgtcca 180
 gattagatat ccgcgagctt cacagcgagt gagctcagct ggcggaaacg tgctcctaga 240
 gcccttagc cacaaggggt acgaggagat gcagctctgg agccaattcc actgcggcaa 300
 tccctcacag ctcagcctcc cctcgctcta aggcacattg agcctcaggg ccatggccca 360
 ggatgtgggc gaagttcgag tccagcctcc caacgccagc ctacaccctg acgatgcctt 420
 gacagagaaa tcgtcagtcg cagaatggtc ttcacgcctt ctgaagcatt ctcccggcgg 480
 acacattagc gataaccctc ccatggaagc ctcgcgcgca gagtcgacgg accaaacagc 540
 gggattgccg caaataacgg gggacgaggt ggcggaaaat gctggaccca gtcaagcatg 600
 gggtcgcaaa ctgcggacat tgccgggtaa acaagtccct ctcagagtgc acgagacagg 660
 aggaaactga aatgctgatt tgtcttgcac ctagcctgga ttgatctttt ggaataacca 720
 gttgatgata ttgaagccac cgccacttct cgactcctgc cgtcgcagcc gaacgaggcc 780
 gtagtcgcgc agcataacca ctcaccatat tcgacgtcga aaccgggttt aggtgcagat 840
 cgtgggcata gtatggatgg agagccggcg cgcaatcac ggtggaagag tttttccaag 900
 actatagcct accctcgaga accgggctta gaggagaagc ttgtaacgcc agaatggctg 960
 cacgaaaacc atggcaatta tgcattgccg tggcggggcc agcttgagcc cgacgaagac 1020
 acagaagatc cgcttaagaa gaagcgcaga cgcgaaatgt ggttcaaacg ctttcacaat 1080
 acccttctgc aaagcccgat tgtaccattg gtcattcggc tgacggctctg gtctttttct 1140
 ttaacagctc tggcgcttgg aggtctctatt cagcgacttt cgagcgactt tccacgtcct 1200
 caacggccct cggccttgat ggcaattatt gtcgacgctg ttgcgttggt ttaccttgct 1260
 tacatcacct gggatgagta cacagccaaa ccgctgggac tccgctcccc cgctgctaaa 1320
 gcacgactca ttctttttaga tattttcttt attgttttcg attcggccaa tctcagtcctg 1380
 gctttcagat ccttatcaag tgccatgtgg ag 1412

<210> 2603
 <211> 844
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2603

aaggacgaca tccgtgcggt aattgccggc atccaaacca gtcttgaatt gacctcgcac 60

gccaaaggcct cccttatttta gatcttcagc aaggacgacc aggataagct gttgtaccgc 120
 tttatcctct gcatgatgct ccagttcttc cagcaaagt gcggaggcaa cctgatttct 180
 gtatacgctt ccaccatctt cgaagagaac ctgggcatga gtgagagcct gtccaagatc 240
 ctggcctctt gcgccttgac gtggaagttc ctttgetgct tcatctcttt ctgggcaatc 300
 gatcgtctcg gccgtcgat ttgcttcac gttagtgggt caggaatggc ctgctgcatg 360
 atggccatgg ccatcaccaa tagtatgggc gaagacaaca agggagcctc catcgctct 420
 gccgtcttca tcttctctt caactgcttt tatcccatcg gtttctctcg aggcaatttc 480
 ttgtacgctt ccgaggtggc tccagcccgt ctccgtgctg ccatgtctgc cttctccgcg 540
 gccaaaccatt ggctgtggaa ttttgtgtc gtgatgggta ccccggtcgc cctcgacacg 600
 atcgggtaca agtactacgt catgtacact gtcttgctcg cctgcattcc gatctccgtg 660
 tacttcttct accctgagac gatgaaccgc aacctagagc tgatcaacca ggtcttccgt 720
 gatgcgtcgt cgccgtggga gatcgtctcg atggcccgca agctgccgca aggagaagtc 780
 gctgaggcgc agctcgcggc catccacaag aaggacggca ccgagctgga aatgaaggaa 840
 gagg 844

<210> 2604
 <211> 2786
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2604

cacgttaata tatctaata taaggcattt gttgcaactc tagaattcta ggtctataat 60
 caatccgaga attcatttcg tatctcggta aatctctca ggaacatata gctgcaacat 120
 caatgatgcy ataccactcc tcattcccga acagagcctt ggaaatcatg accctatcat 180
 tcttagattt tctattagcc ccttggtgat ttacttcgga gtagatgtgg acgtgggtcat 240
 ttcatagatc agcagcagca ccaagacatg ccaatacatc tatcctctgg tttagtttcg 300
 cccggtattct aacagccgaa tgactattta tgcagattat accgccataa gcagcttgca 360
 taaagtttaa ataagcataa gccttggtgca tccatggtca ctactggctg aattcataat 420
 acacactgcy gcactacggc gttacggcgt tacggctcag ccattgtgct tttattttaa 480
 ttcgaccagc cctgtcattc tcaggctggg gttcggacat accacgatcc cagcccgatc 540

tccggtcagg ccttgattca gctccaggct ttagcctaga aggtaggtct gacactgtgc 600
 cttggattca agacactaga tgggtgtgaat ttttatggct atcttactat accgccggca 660
 aatccgaaga tgtggctatt cttggaaagg acggatggct ttctctaccg ccggattagc 720
 ggcaatgtca tcaccacgcg aatccgtcca gcgactatt caactgttac ggatttttgg 780
 cgggactact aactattgcy ggctatgggt attgagtcaa ggtcggatct gatttttggg 840
 attttttgc ttagtttattt gcctctagcc ctatattcta tccctaccata gtgcctaccc 900
 ctttctttct cccagttggt aatgaggtac tgttcctaca gttgcttggg aatgccgctc 960
 ctttctcttg tgacacgtat cttgctacaa tatccactgg gaacgctcca acgaactcct 1020
 ctaaccttcc ctctacagc accgccaaaga tactttacgg caaccaagcc ctaaccctgg 1080
 atatatattat ctccaggacca tgatttgcyga gaaccacct gagccgcccg ctgcccccca 1140
 tcgttataat cttcatcaaa ttcagttgct tcgcaacaaa ctgtatcatt acgggaagcc 1200
 acaggtattg agaacgtggg atcaacgcct gcgtggatgg tatatgggtca gaatggtcag 1260
 gcctgaagta tatgatatgt ctcaactcca aacctacaat ttttgagcac aatccggggc 1320
 ccataatgca gaggtgttga ctattaagtc agtttccgcc acctgggtgga taacaggcca 1380
 tgaccactaa tcataacta taggacaagt atcgcaacct catgtcagac agcagacagg 1440
 tgccgcgccct cgaaagcagc acgcaaata ga ctatggcgct gcgatgttta gaccgttttg 1500
 tatgcatttt gcagtttagc ttagacatct actttgaccg tcgatcgacg gctgatgttg 1560
 tatcaatcca ttcttaata ctctttcca agaatcgccg taactcgcca cgtcctcgat 1620
 ctatcatcgg tcagcgcagc cattgcagcc cactctattt ccgcagtcga acacgtgcac 1680
 aacatctaac agttctcgcc ctcatgctga tgaataatga tgattttcat tttctgaggt 1740
 acgacaaaga cactagaact tcgttggttt aggctggcc ggcacataga cagtatgtaa 1800
 ctgactaact gacttgcaat cagggttagt gccgtactgt gcgcaccggc ttccacattc 1860
 catgcaagtc ttgggcacaa cggctaactg tccggtctcg gtgttatgtt gtagctccgc 1920
 ccttgcaagg ctgtcgcagt tttcgacatt gtccgcgcgc caatggggac agtgaaatcg 1980
 atgtcagacc tggtcgggtc ctccatgcgg attatgggtg atataaactc aaatagcgag 2040
 accgtcatca gggcgcgcgg ctgaaattct taagtgggag ggtgtgctgc catctaaaat 2100
 acttctcact catataaagc atgcttatcg ctgcaatgca tcaaaccaat gctacagccg 2160

ctgtgtggct tcatacccta cgtatacttg accttcaact gtggctggct gaacaaaacg 2220
tgaagtccac agcttgtttg ctcccagca cactgagcca ttgactgccc aataaccaga 2280
agccaagtcc tgcatagaagg aaagtcacct gtggatctta ggtctttccg tcacgataat 2340
tgggccggtc tggttctcat ttgtttaaca ttgtctgatt tgagtgaat ggctgtcga 2400
tccttcaccg ctgcagcttg gacttgagac aggattaggg ctggcttgct cggaacgcc 2460
ggagtgcaca gcagctgaaa aagtttgctc atctcgacgc tatctatatt tgggatacag 2520
ggtctgtgtc cagcagtgat ttgtctgtgt atggatcaat cgagattaca atcgatgagt 2580
tcagggtctt attataatga atcgacttgc tgcataggcc tggtaaaaag gctcccgtg 2640
caggatgcag agcctgatga atcatgccat gatcccctgc atgatctatt gccaatagtc 2700
agttcaccga tgatttttgt ttccgcggtg gatctttcaa ttcaggtagag gctgtagatc 2760
atccaagcgc agtgtagaat acatta 2786

<210> 2605
<211> 1943
<212> DNA
<213> Aspergillus nidulans
<400> 2605

tccatttctg aagataacca atatctctga gctatgggaa accgcctgtc agccaaggtc 60
ggctcaggag cattcgttgg tgacccaaga gtcgagagac caccattgac tcatcgggcg 120
gggaaagaca tgcattcgta aatatttatg gacaaggagc aattctgctt cccaaacccc 180
atctcccctt tgtctttgag tagcacacca tgtcaacaac agcggttgaa ctagcttcac 240
agggacaaga gccacagagc tcagtccaaa cgtttgaacc gattgctgag aatgcagtca 300
tccaagcaaa gcaaagggtg aacgatcctc caatcaacaa atggcgtctt ttagctacgt 360
ttgtcagttt cgcggtcgta ggggccagcg acggcgtcta tggagtgagc ttttccggtt 420
cggatcccc agaaaaccgg ctaatgactt ctctcgcagg cacttggtgcc atatgtaagc 480
gtcgaatcga attcaaacc cgtcgcgcag aaggatgctg acgttgaata gcttcgtgat 540
gactataagc tgtctaccac ggtcgtctct ttgattttca tgaccccggt tgccggatac 600
acgatcgcaa ctctcattgt caacaaaatc cacatgacgt tgggccagcg aggtattgcc 660
attattgggtc ccctatgcca tatcatcccg ttcgtaatta tggccattcg cccgccctgg 720

ccggtcatgt tggctgtcta cgtaattgtg ggcttgggga atggcctcat tgatgccgca 780
 tggaactctt ggattgcaga catggttaat gogaacacca tgatgggggtt tctcgggtgcc 840
 ttctatgggc ttgggtacgt tgataatgtg caagggctac caatggcaca ctgaccacgg 900
 cacagggcaa ccttgagccc aacaatcgca acgcagatga tcaaattcgg cctccactgg 960
 aattactttt attatacact gcttgggtggc tctgtcctgg agttgacgac gagtgccgtt 1020
 ttgttctggg gagagaatgc ggctagcttc cgagagaaaa cacgcaggag tgctagtagc 1080
 agtggcggaa acagaactac agaggcaatg aaaagtgcgc ttacctggat gatagccttc 1140
 tggctgttta tctacatggg tgccgaaggt gggatgctct ggctttatcc taggagtga 1200
 tggttttctg acggttggat ttgatagtgt ctgtgggtgg ctgggtcgtc gattttatgg 1260
 tccaggctcg caacggacag ccattcgagt ctggtctaata tcccacgggc ttctgggctg 1320
 gcgtcactat tggccgactt ttactcggct gggatgaacga ctggctagge atgttatgca 1380
 ctctacgtat ccaatgcacg aatgctgact gagaatgaag gagaacggat tgcgatcagt 1440
 atctatcttg tgatctcaat agctctggaa cttatatattt ggctcgtacc gaagtttgtc 1500
 gtttctgctg ttgctgtctc gctgcttggc ttcttctactg ggcctctctt tcttgcggca 1560
 attgtagtgg ctgcgaagct gcttccgaag catctacata ctccaggcat tggacttgcg 1620
 tcagcattgg ctggtggtgg tgcagcaatg tgagtttact ctgtctgtta atactttata 1680
 aaccagtgat ttagacattt ggctaataata atgctctctg tatctgcgca tagactgccg 1740
 tttgttgccg gtgctttatc tggggcgcgc ggagtgcgaa gtctacaacc atttattctt 1800
 gctttactaa tcaccttaac aatcgtctgg gtgcttcttc cgcagaataa gcatcatgct 1860
 catgcagctt gagacagcat tgatactgcg ttgctaggat gcattgagac aatatttgag 1920
 gatgcggcat actggaggag atc 1943

<210> 2606
 <211> 1713
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2606

tctccaccg aaacaggaga gcggaagcaa gaagatcctc tccgcttctc cgtaagcgc 60
 gatgttgccg aaggtccctc gggcgagaga aataatttgt cttcgtctgc tggaaccgg 120

ctttctcttt gcacaccgga gaaaagactg tgactttacc cgtaaaccgt ttcgaaaatt 180
ccagccgtgc tttgtaagtt gcctctcatc ctctctcca gcatccgaaa tgcttcatgg 240
ttctcattt gatataatag ctgacttaaa tgacttcaag tctaaaatgg tggctaaggt 300
aagactagtt tgttatatca agtcaagaag aaactattca gctgaagctt ttacaattgg 360
aagggacaac tgccagtgtg acaagtgcgt tcatccgagt accagacaac ggattgtcga 420
cactttctcg gtatgtaacc ttcttgttct cacctacatt tcaaagtctg atgaatcgca 480
tttagattcc ggacgatatt ggtgtcaaag acatctcgaa tggccggagc caggtaacag 540
tgacatgtag gataatccct ttttatgctc atataaaatg ctgatcttta ttagggctcg 600
atggccatgt aagttcatat aatcattctt ggctggctca aggcggaaga cgtgcaccaa 660
caagtttagg cgaatatcca ttgcgattcc ggtaaagcaa gtcattctat gtgatttctt 720
tcttctgacg gatctatagc aaggggatga cttataaccc aaagcacgaa ggcaatgtaa 780
aggaaatgcc atcagtgtcc tactcagaag ttatggcaaa tgatgctggg gtcctaaagt 840
ggctggagcg tattgtaagt cttoctgtat ccactcgagg ctatatacta actttgggaa 900
gtatgactgg ggtttctgcc tggccgaga taccckaate aacctgaat gcacggaggc 960
tctcttgaga cggatagctc acattagaca cactcactat ggtataatgc gattctctga 1020
ttgatagtac agcgcagcaa ctgatgtcaa ccaggtggct tctgggactt cacagccgat 1080
atgtctttca aggataccgc gtataccaac gaggtctctg gtgcacacac ggacaatata 1140
tattttactg acctgcacg gcttcaactc tttcatatgc tatcgcacac agatggcgac 1200
ggaggcgcta ccttgctcgt tgatggcttt cgcgcagcaa gaaggttgta tgctgagtcc 1260
aagcaaaatc ttaaccattt aagaaatatt agacagccgt tccacgcaag cggaaacgaa 1320
gactccattt accaactgtg tgagcaacaa gttgtccttc gtgccacgc gcaattcaag 1380
catcgcttgt atcaagtccg ctggaataat tacgatcggg cggtaaaatg gaactggagt 1440
cttgaggagc aagaggcctg gtacaaggct gcaaagcact ttaacgatat catccatcga 1500
gaggatatgg aaatatggac ccagcttcag ccaggaacag cgttaagtaa gttcaatttc 1560
tatgccttat ttgacaagct aaacgactaa ttgcgtacg aagtctttga caactggaga 1620
atgctacacg gtcgttctgc attcactggg aagcgaagga tgtgcggtgg atatagtaag 1680
tacccttccg tcacaccatt tgccgaatac tgc 1713

<210> 2607
 <211> 1115
 <212> DNA
 <213> Aspergillus nidulans

<400> 2607

```

accatgagtg tacgatcgac ttggcccggc ttgccatgca ttgttactgg agtcccagac   60
tggttgacaa tcaactgttt gtgcgcagta tatctagcac gcctgatatc attttatcaa  120
tacctggagg aagatccatg tgcggacgat cgaatccctc tgattcccag tcctgattca  180
ggccagtgca gataatggca taatcggcat cttctgccgc cttgacggct cgattgatca  240
tctcctcagc gtccaggcgc agagaggccc ccagatttgc agcgcccccg ccaaaattca  300
ccattccagt tgtcttcata gttgttgtgt ttgctgaacc gaactcgatc cggattttat  360
atgtttggcc ggccgtaagc ttcacgcagc caatctcctc ccgggtgcct ttcccaaaga  420
agcttgtccc tttagtttgc ttagtcgtgt tgtcaatgat caactcatcg ttgatgtaca  480
agttcgcagt tccaaaaaca ctcagcccaa agtcccatat gcctgattgg tcgggctgga  540
aatcaccgat cagcgtggac cagaaaagag ccctattgag ccctgcaagc ttatagtcca  600
tgaattggaa cgcggtggtg gtgaccggtt cggcccccaa gcatttgagg tttggctggg  660
tcattggctc attgtagaag tgtataactg cattgctcaa caggcgatcg atcaccggca  720
gcatgttatg ggcatgcgct cctgtctcat acaacacttc tgcattcgga agagcctcac  780
gtactgcata gtacagggtc gaagcatagt acggcttcag cgccgcactg ccgccgccag  840
aaatcgccgg cgttttgata tgggatccga tgagtgcgat cttctttacg ttcttcggga  900
gcgggaggat gttttcctcg ttcttttagc gcacaatgct atttgaacag agggttcgca  960
tgagagcgcg gtcttctgga tggttgcgcc ctttctcgac ctctgagact ttggtccggc 1020
tcgctcgctg cacaaattcc aataccttgc gtgcccgcgc atccaacgtc gacgacttga 1080
tgagccgcgc ttgcatagca gactcaatgt atttc                                     1115

```

<210> 2608
 <211> 715
 <212> DNA
 <213> Aspergillus nidulans

<400> 2608

ccttatgcct ggtcgcaaac tcgacgacgc cgtgtggtgc tgacatgacc agtggagcca 60
 gcggtcaggg ggggtgccggg tctgctggga gaggggatgg atacatatat cggacacgcg 120
 acggccaccg gagtacggaa ggattgcatg gtatttgccc caaatgacta gaacagttag 180
 gagtcctaac atgaccaggc ctgaggacat ttttgggagt ctggaggtag acggcgatgg 240
 aaagtttgtg ggtggcacag gaaattacca agcaagcggg aggactcttc cccagaagtc 300
 atggattctc attattgacc aaggcaggaa cttatcgaat cgtcacgcga gacggcatgt 360
 aggtagctcc catcctttga cgggatcaac gctgataaac ttgcagtctc ggtttaagcc 420
 cattcctcag ggagaaactt attcagaaac tgcgcgaaca agaagcgcaa tgagtaccat 480
 caggggctct atctgtgcaa aatcatgaaa tgtaccatac agcgcgctgc tggacagttg 540
 ataatcattc cggattctta tcacagaccg tatcatttcg ttcacatcgc cgtcgtggcc 600
 ctattcttta tttagagaag aagtttgcta ttgcggtgt accagtagtc gtctttttcg 660
 gctctggcct tttcagcgac ttctggttat gcgttgact gcgcatttgt tttgg 715

<210> 2609
 <211> 1680
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2609

cccaaactgt gtaagacccg cagtaagatc ccagtcctga cgagcaggaa cgtgaactga 60
 cgttacgtag cctggcgttt acgttgtaaa cagcgagtac gtcaactgtc catgtatcta 120
 agcttacacc tgattctaata acagcttttag agaataaaat gcgatgagac acatcctcac 180
 tgcaatcagt gtacacgggg agcgtacgaa tgccccggct accagcggcc gttgaagtgg 240
 tcgtccaagt acgaggttgc tgccaataat gacacagccg caagggaaga tgcacgctcg 300
 aaacacacca tcaatgccc aacaccagat ctggaggtag atacaataag ttctatcctg 360
 tcgccctcgg tgtctgtgcc ggggttaact cccagcatc tcgcgatggc aaccgggctc 420
 gccgaacaag atgtttctct ctataccgca ggctcagatg caagtttccc agactttggg 480
 ttcaataaca tctcgtcacc gcagtatgaa cagacatcga gctctttctt tgactccgtg 540
 aaatcttccg atgtctttaa taccaacttg ggcgaatggg cagatctcac ggtgtccttg 600
 cccctgccgc tggaagacca agacgctcga atctccggc actactttt caaagtctgc 660

aggatcaatc cctgctttga ctccggcgca aaccctatgc gtgtgcagat acacgaccag 720
 atggccttca gtgggctaata ctaccactgc gttgtgtcca tgtccgcagc gcacgaaggc 780
 agcattgatt ccactgcgct cacctaccga tcaaaagctg tgacctgtct gaaatcagaa 840
 ctcacacgac tcaagggggg aactgattct gagaggccac tagggtcgac ggatctgtct 900
 agcgccctac ttggctgtat cctgctcgga atgactgatg taagttgcct caacgtatga 960
 tacggaaga acaacgaatt cacctagcct tcctaggcgt ggcataaccc gttaatctag 1020
 gaataacgca cctacatagt gcaagggcac tattcaaagc atggatatca acaaatgaca 1080
 caaatggtgg cgccgtgacg gcatcgctc agcgagactt cctgatcggg atcatgaata 1140
 ttgggagtct ttggcttcat tctttaccaa ccagtcctg gacgtgatag cctatctaaa 1200
 tgccttctgc gagaaggaca ttagcaccgg gacccaaata catcccagcc cctgggcagg 1260
 tgtctgtaca cctctatttg tatacctcgc gaaagcagga actctggccc gtcagcggtc 1320
 cttggcgaag aatctttcaa acctaacggc cggaccgtca gctactagta tccagacgca 1380
 gctcatcgtc gatccacag gacaagcccg gcagactgaa actgcactcc tagaatatga 1440
 gattccggcc gaggaccgca tcggagagac agccgaccac ctaagcccca tcagccacct 1500
 tcagaaaatg gctcagatct accgtctcgc gactctgctg gagatatata ggaatttccc 1560
 ctgctcctg cggacggaga gtaataccac cccggaatcg acaaccagag acaagaacgt 1620
 gaacggccct ggaaaactcc agcggcaagg ataagctcct caccatggca acagcatctt 1680

<210> 2610
 <211> 1507
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2610

ctctcactct ttgagctctg gtcccatct gccgctgacg aaggggtggc cgtcagtccc 60
 catcccgctg tccctacgac agcattcggt gcgcatccgt ccagacgagg tcgataatct 120
 tcgctgctcc atcgaccgtt ttacttagcc cctgccactt agcatatagc gctaagctgt 180
 gcccgccaga ataatcagct tccggatctt cgaatccttg cgcgccaaca gtgtatgccg 240
 tcataagagc ttggttatag aagtctacac cggggagatt ctgcccgtg cccaagggaa 300
 cagagttgag tccgcgcagt agcgggtact cgggggtcat gtagcctggg aggtgtatac 360

tcgcagcaga gatggtcgtg atattgtagt ggggtgagtgc agttacgttt ggggttagggc 420
taaggagccc ccacatcggc ggagctgtgt cgatatcgtg ctctggtagg tcctcgacgc 480
cccaggtagg cagggaggcc ggggttttat actccttggg cttgaatgag ctcactttta 540
gtgcgtcgaa ccccgttccg ttatattgga actcgactgt cttgacaagt gcttttattg 600
ctgtggcgca ggagtacagc gggatgggcc acggcgtgcc aggatccagg atcctattat 660
cgcctccatc ggttcgcgtg gcagcgccga gtacgagacc gcaggcaacc agcgtactgt 720
tgacgttgga cgggcttgaa tttgttgtgc cgccgcatat tggtgctcct gacagtcagc 780
atcaagcaat tatacgtacc taacaagggtg acttacatgc ggttctgaaa tccagagctg 840
taacgttatg cggattgaat gtcctgttct gtgttgcaat gaaattgagg tacgccccat 900
aattaagatt ggtttggatt gctgaaaagg tgatactgaa gttgttggtc ttcccatccc 960
ctagatcgat tcgctggccg tggactgagt ccacccgggt ttgagtctgc gagtcaccat 1020
cggtgatatt caagaatacc atcgtatagt ggttattcag ccaagcagcc ctgtatgcc 1080
ggctcttcag atcgagttca cctgtttcaa tggcagttgc agtgctcccg gggggcgctg 1140
tccgtgatag atccgcaaag ccaccatcgt ccacgagcga aaagttctcc agaaaccgtc 1200
cgttaaagtt cgacggtggt gttatcgcat gaatactcag gttcaatggc acacattccg 1260
tctctggctc gatgaagaga atatcctccg tccaggatgc gccgtacttt agggttgctt 1320
ttggcgagcgt gtgggttcga aacccaatcc ctccatcctg gagatccgta atcaagccct 1380
ctaccaactt gatattgtcc tcgaggatct gcacagacat agtccggtag tcgggctttg 1440
tgtaccagcc caattcgcta ttttggctg tcgagttcct gtacattcgg tactgcatgt 1500
cgaatat 1507

<210> 2611
<211> 1084
<212> DNA
<213> *Aspergillus nidulans*

<400> 2611

caactatattt caaaaccctg aatatttcat gttctacacc cttttcaaca cttccctcgc 60
cgaagaccgc gcatacggcg tgcactccgg taaaaatgca aactttgcct gcgacaccgc 120
taacgcaaca atggacctgc aggctgacta aagcgggaaa ggggttcggcg aaccgcagaa 180

ccctcatgcg ctgggacaag cgtcataaga agtatgttag tcgccaaaac gacgaggacg 240
 gatccaaggg caccaaactc gtccgtggtg agagcggcgc caagatcgcg gctactttac 300
 gcagcggccg gtttgatgcg tggaagaagg ggaagagagt gggcagggtta ccgagagtcg 360
 gcgaggcgga aacgcctggt ctggctgcgg accttggtgg ctctggtggt tcttttggtg 420
 ggaagagatt caggcacaag agcgagaagg cgcccaaggc tgcagaccg ttgagagggg 480
 attatgaaaa gatgaagaag aaggctgagg ctgcgagga gagggccgct agcaagggtg 540
 ggggcgtgac gaggaggga aagagcgaga ttaggaatac ggacgatata cgcaaggcga 600
 ggaaattgaa gcagaagagg agagagaaga atgctcgcc gtcgaggaag aagtagacga 660
 tgacccttc cggtgtatc ctgtacatag ttatcatgtc aatgtcaaaa gcaactggaat 720
 accctcagta tgagaacgca gcaaattctc cgtcataata gtcttatcgg tccatggccg 780
 tctgtatact ggcaagggtc taaggctata tcatagcccc taccctagta cacctctctc 840
 tatccacct cttctgcatg ttaccagac acaacaacac aacctcaacc tgacccaat 900
 tgcacaatat ggttgctca acttgctat cttgaatcca ctaacgtaga caatggcgga 960
 gcgaatatag gtattgaaga gggcatccgg aactaccag gctgtctcag acgacaaaac 1020
 ggagatgcat ttcacagcaa agcagggtga agactgtcac tctgtctct tccacgggtc 1080
 attt 1084

<210> 2612
 <211> 1040
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2612

ttctaccaca agctgtaagg ggtggcggtta gtgtttcaac tgctataacc aatcttccag 60
 aagtacgtag ttgtatccat ataggcggta gccagcgctc ttgcctagcc agaagcatat 120
 ctagaaacag tccttagcat cgcccaaat accagaatcc aaacggcgcc gtccacacaa 180
 tacctatggt aacgaaagcc aacacactag tccccactg atatcccaa gactggtaca 240
 tatacggcgc aaagagcggg aacgcaaac ctgccagact gcgcagaatt gcacatgctg 300
 ccattgcgct cgcagcgtag gtctgatagc tategacaat gtacgtctgc atcccctaca 360
 ggcaagagat agtccccgca gcgaagatcg cagcgccgat atcaggcata atccaatacc 420

tggtccttat gctccagccg taccagaaga ggccgatggt actgatgatg gagccaattg 480
 ctagagccgg catgcggaac tcgggcttgc cgatattgtt gttgcgcgct ttgaggactc 540
 tgtagatgcg gtcgataaac ttgaggttga ggaagaggcc ggtgaaggag ccgagtgcga 600
 tggatacata attgacgctg ctgatactgc gggtttcgtc gtagacctca gtccagatat 660
 ccgggaatgt tgcgagcatg aggtacgtta ctccgaaaat gtaggccata tagacggcaa 720
 tgcaggtgac gatgggctgg gttatggata gcagaaccgg acgctcgaag gcgtaagga 780
 gcttatgagt gagtgcctca gccctctctt cgacgtgaaa attctcgttg ccagtttctt 840
 tgacgagaca atcccgacgc attcgtagta gggttgccgg gtgacactcg cgcaaccaga 900
 caaaccggc caactgaatg ccaacggctg cggcagagct tgcccagaaa acccagcgcc 960
 atgttgata ctacgagata aagcctcagc aatagggtccg acgacaggcc caaggagcgg 1020
 tccaagagtg taaacgccc 1040

<210> 2613
 <211> 2190
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2613

atgaccggta cccctggcca tatgtacagg ctaagcatat gctggaacgc ttgtcctgc 60
 gccaatccag ctctatctcc attctcatta tccggcccgcc agcaatcgga ccagccattg 120
 cggagccttt ccccttgtag ggccccgaca aggcgatccc aatgcactcg ctcatcctct 180
 gtttcagtgt gtccgatcta ggccgcgtag caaatatcaa tcgtccattc gaagaagtcc 240
 ctgtcgacct cgtcgctaac tgctgcctcc tccaccttgc ttctgggacc acgggagttg 300
 tgcactgcgc gtctgagcta tacgtccgcc agaccgctgt agagctgatg gccaccgcga 360
 ggcagtgcac tactccgctg gagatagcag agctcttccg cacgccgcga gtttcgactg 420
 caatattgtg gcaaaataag tatcgcttgg acaatattga cgatgtacct gttttcgagg 480
 tcgattgcag ccgatcagag tggcagaagc aggttactgg gcctctcgcc ttgcgccccg 540
 tggaccatga tccacaggcg cacctgcagc gacggatcag acggatgtat cgggctttgc 600
 tggggccggaa ccggagtgat aatcgttatc catagtgtgg ctattcttgg ttcaagtgcc 660
 ggcagtacag tgcattttcg tttccattc tatggaacag acaatgatgc ccgagtatca 720

ctttttcaat gttgctgtca agcaaaggct ctgcgggggc tgcagtcagg catcgcatcc 780
 ttgatctgat ctattactac tgggatagtg agataggaaa ggtagcagaa gcacgcatag 840
 acgatctagt agccggccgt cgataaacag gcatatcaca gtagtcgac agacatgcgc 900
 agctcgcggt gctttctcat tgctaagaac ctatgctctt gtcctccacg ttttactctg 960
 catctcctcg tcattctacag cagatccggt gttcaggatg ctgaccgtta aatctatacc 1020
 ctcttacct gtatagcgcc agcttcccct gccaatctct gaagtcacgt gacatatatg 1080
 cgcctttttc gcgttatcca ctgcttgat tgagcttact taaaaacacc gcaccgactc 1140
 tcgagactcg caagatcttc caaatgcga aaacattgac caaaaaaat gctattcttt 1200
 tcgcgattga cagcaagtct ccttgtcaa ccccgctgc ggatgcgctt tcaccgccgt 1260
 ataagccgtc taggtggcga ttctggcgcc tttccgagcg tctacgctgc agatcgcagt 1320
 tgtcacactg ggggacagaa aacgaactcg tttcaaaat cagcatgcaa ggcacagagc 1380
 cagactgacc aaaatcaaaa gtctgataca agtgactgc tgaccggcg cttctggacc 1440
 tgccgctcga cgtggcgccg agcaggaatc aacacactcc gttgcctggt aggctgcact 1500
 gtggcgact ttgccgact atggacgctc cagacatatt gccctgagct gggaatgggg 1560
 actataatgg ctgcttcgag tgcgtacctt cctcgtctc ctgcctaact taggcggctc 1620
 agatagtccg ggctgactag atcgctcca gtggcatccg gtatcacaac gtccatcatt 1680
 ctggagacgg tccttctccg tcacggacca gataggcttc catggtctgc agcgggtgcgc 1740
 actgcaatgg gaatgagtct agtctcaatg gcggccatgg aagctgcgga gaatctggtc 1800
 gactaccatc ttacaggggg tgttatcaat ctcaacgacc cggcgttctg gattgctgcg 1860
 ggggtttcaa ttggtgctgg gtttttggcg ccgctgccat ataactattg gaggttgagg 1920
 gcgctgggta ggagtggcca ttgacctga atagacttgc atttccgtaa ctgtacataa 1980
 ctatagttat tacactaatt catttcagct ctatacaggc ggattccact ggtccagcag 2040
 tcgagaacct ttccgagtag gctaccagc taaactgact acctaacat ttggacctta 2100
 cgctcggatt cttcttaaca catttcttca gttcgccga atccattaac taatcatata 2160
 ctgggcctga actcctgaca aacttttgtg 2190

<210> 2614
 <211> 2099

<212> DNA
 <213> Aspergillus nidulans
 <400> 2614

```

ctacactgat taaacgcgtc ttagtctctg tgcgaaacga aattgtctct attttcatta 60
cagcacatct tatatttgta tgcctacatg atctagcgcg tcagatcccg cgcgtgttca 120
tgaacttcat cgccaattaa gaaacggccc gaaggctggt aacctccaac gacggacgcg 180
ggattcggcg acgcctcagt gacgctcttg ttttctttct tcgaggcgct tttgttcacc 240
caattggccc agacaaagca atcggggtgg tggcggctgc cttgtctgaa ccgaagtgcg 300
cctctttcat cgacacccca ttgcttcaac tcgagccgcg gtgttacttg ggcataatta 360
tacgattact cccaactcga atcccttgcg cgatcttatt tcttctcttg tttagagttc 420
acactatact aactgcctaa cctcgatacc ttatttacct gcttcgatag cagttgatga 480
tcattttaac tgtatgtggt tgttctgctg tgactggaat gcgctgactg tagaagatat 540
tttaattact tgacaagaag ccatgccgcc caagaaagct gccaccaagc gcacgcgggc 600
tgogaattcg gcttctcccg ttcctgcctc gcgccggtct gcgaggatga gtccaggctc 660
tggaggttcg aacttgcca acatcccgac gaagacgtcg tttgcgtacg gctcgtctca 720
gacccaatt ctccgcaca tgctagccgc gaggcctcag atgaatttgg cggaaatggc 780
tgactctatc gaagaagccg tccaaaccgc caaagaacgc gagaatagcg actcacccca 840
caatatgcca gctttgagca caagcggcac aagcggcaca agcacgcgca agtcagctga 900
aacctcgccg cgaaggactc gacgacaacc tacgcctgat caggtgcagc tgctcacctc 960
gctgcacgaa gcttcgtcgg cgacaccgtc gactccact cgacattcct tctcttcagg 1020
atcgagtgtt agggaggtcg ctgagaagca actctaccct tcttacatgg accaattgcc 1080
ggatcaagcg gaggttccgg ccgacgcaga tctgcaggga ctgggcttgg acaacatgtc 1140
ggttatctcc tacaatgtcg agagggatgt tcacgacgat gacctcaagc gaacacgttc 1200
aaatatcact gcccacctc ggcgagtctc cgggctcgac ctcaagcaca gcactatcct 1260
tgaggaagac gagtcctata taccgtcccc gtcagtggat tccttttccg ctccagctaa 1320
gactatcatc tcggatcacg atccaaggac cccattaagt ccacactccg atgactcaac 1380
ttcacaatgg gagaagccca aagacggttg gattccatgg cttcttcgag cccttattgc 1440
gacgttggtg atttttggca tttattcctt gctaggcagt gcttcacctt ttgacgcaaa 1500

```


acctatccgc ttcaacaaca gcgatctaaa tgcgctctcc agccaggtag taaacctagg 1560
 cgcgcaagtc tcttcgctgt caagggacat gagatccgtc cgggcagaag tcagcaatat 1620
 ccctgcgcca acaaccatat tacaataccc gagcaaacac ggccaggaaa tcattaagac 1680
 aaactttctc accaggggca atggtgtgat tgtagatcca tttttgacga gcccttcagc 1740
 atcacgtaaa gtcacgtgga ctcaaagact ctatttctgg ctgtccggcg acaagcatat 1800
 gcgcccgcaa ccgccacttg ccgccatgac cccgtggagc gatttcggag actgctgggtg 1860
 cagtgccccg aagaaaggag taactcagct cgcagtcctg ctggggccagc gcattgtccc 1920
 ggaggatatt gtggctgagc atctacaaa ggaggcgacg atccggcccc aagtggcccc 1980
 ccaggagatg gagctgtggg caaggtaccg atatgtcggg aacggccgtc catacaaaaa 2040
 tacatggttt gctttcttcc ggcggtatcc gaagaacatc gccggacaag atcctcggc 2099

<210> 2615
 <211> 1238
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2615
 gtctgttaac gaggaaatac agttgatgga gagctacctt gaagtgaatg agtttagtaa 60
 ggtgagcttt gagggtgatc tccttatttg ctttcgggcc tgcttttgtc atgtctgtca 120
 cagccctacg agctgtgatt atgagccaac atagattacg gagcttcacg gtgtgcatcg 180
 gtgcccaggg tgagtgtcat gtgattggcc attcatcgtg tacaccgggt acgcgatgaa 240
 tcgacttctg ccatttctga ctgcttactg tatcagatta ggctttgttt tgcaaagatg 300
 tcccacactc aaggtcttcg tatacataat tctcttcttc atgcttgaga ttctgaatat 360
 gagcgccaga tggctgttta aatgttctga ttggcttgcc gtcttaatgt ccaactctaa 420
 accctaattc ccatgtctca ccatatagtg tattagacat ctgatctgtg cactccctag 480
 catgattaaa acagactcta taatttatcg tattatatag tgttgtagat acgctgaaag 540
 gggaaaaggc aggaggaaac tgcacaaact acacgaacat agcctactaa gagcctacta 600
 agatcggggc ccatatgacg attgacggtt aatctcgttg acaatagatc tctttttgat 660
 ctctcgatac ggtacaagag gcgccagatc cgctggggat ggagatcgcg accaagccac 720
 gatatcacgt ggcgtaagcc gccagccgtc tcgagctgag accccgctga gggctgagac 780

tacacctggt gtacaggatg agcatcacat gacatttcca tactgogaaa taccgaggtg 840
gttcagtagg gccgaattcg gtcattgtgac cagtgtctgc aacggaatca ttgaattgtg 900
gtcttatatc ataactacag tctgatagag atttagagct attatgaggt tttttatgac 960
ggcaaaagag atgttgatcc tctatgaccg acgggtgaat ggaagattaa aatcgaatgc 1020
gtagtaacaa caataataaa tctgattata tctactggtaa tgtttactga ttgagaggcg 1080
gtacgttatg tttgattagt aagaagtctc ctcggttgac ctgtaaccac accactgacc 1140
acaccaatat ggtggcgcca cccgcgcca aggagctta tttcgccca gtggatccct 1200
atagtgagtc gtattatgcg gccgcgaata ctcatgtt 1238

<210> 2616
<211> 1944
<212> DNA
<213> *Aspergillus nidulans*

<400> 2616

taatcatcat catcataccc agtgacctcg cctcgacctg ccttctctgg ggtacaacca 60
ctgcaatcca gctgcactac tctaataatgc atgaatatct ctttctgctg atttaaactg 120
ttctctctgt gctcgctcta cgtcaattca ctcttcattt ctgttctttg acgcgggtccc 180
atacgatact tcccagagag cgtcgacatt tcgcgctctc ccttcgtttc tctatactgt 240
attgactatc ctcttactgc ttctcttttt ttttctctcg atcgcccttg ccacttggcc 300
caattgggtct tgggccttta ccttttcata catttttttt ttttttttg ctttcacttt 360
tttcttcca ctcgggacca cggatctcct gcagcccgcg gcctctctat tattcagctg 420
atttatcgac cggatcgcgg ggggaactat gtctgccgcc gtggcttcgg cagtctcaac 480
aacgtccca tctaactcta ccgcgcattc ttcaccaatg gatgcgaaaa agaacagtgt 540
caagatggat aacggtgagt tctcttgatt ctggtacaaa acattctgga tctatggttg 600
tgtgccccc atcccggcct ccgatgttat ctttcccatc gtgtcgggat gacctatac 660
aatccttatt gtctacctgg atgacgtcgc acaactactc cccctgcct tctctcctg 720
cgcattgtcg cgaacttgcc gtttcatctc gtttcgtatc tgctctggct taattgtact 780
gacttgatga tcttcagag gcctcatcgg agaccaaaga gcagaagacg gatggcgagc 840
cccagacttc attagcacct ccttcacggc ctaaccatc ggctgccacc gatacccccg 900

attacttcaa ctcagttcac aaccctttcg ctttgaggcc gaatcctttt gagcaatcgt 960
 tcggcggggg ttccggtgag accccgggga agtcgattct tccccctgtc gcttcgatca 1020
 catcacctgc tttaccaggc actagctccg ccggcgggcg atacaactgg tctaattcct 1080
 tgcgctcggg tccccctgagt cctgctatgc ttgcggggcc tgccgggggg agtgactact 1140
 tcgacagtat cggaaggggc tttccgacgc cgaatgagtc ctactccgc actggtttga 1200
 cgccaggtgg cggaggctcc atgttcccag caccaagtcc caactcccaa gctttgttga 1260
 accagctgca gaacggaggc gcaactccgt ctactattga gttccatcgc acagctctga 1320
 atgtaaagaa gaacggcatt ggcctacat ccaacccaac cggcgaaggc gatcaagtac 1380
 cacagaacat tacaacaact atggatataa aaccgcaca gcccgccaca gtcgactttg 1440
 ggccgcatga tgcagcagac gctgctaata gactgttcat gttggccaaa ggtggacaat 1500
 cgacggcaaa ccagtttgct gctgtttcga accagacggc aattccaccg caaacacttc 1560
 agactagcga aattctacaa gaccagaatg ccgcccgcgc cccatcgggtt aatgtaaaag 1620
 ggtgtagcaa atacgagaga gccaaagtggc gaacgggtca gaacaaagtg aacaggccaa 1680
 acctgcccga ggcagggggc agagaaacaa cgttacaaag ctttcagtca ggaaataggc 1740
 gcaagacggt gattccttag ggggtccacc aggaggccaa gctaacaacg ggcaacaaac 1800
 acaaattcctt aagggggaaa tagagggaga gcccccccc cccaaaaaaa gaggcgcccc 1860
 caaaatactt tgaaaaaaaa aaaaaaattt tctcaaaaa gagggaaaaa ttcttccctt 1920
 ttttttttct ctaccacaag gggg 1944

<210> 2617
 <211> 1412
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2617

taacacccga aatttttttg ttaagaacct acatttaatt ccagaaaatt tgaagggcct 60
 ttttcgggaa ttaaactgaa aaatatatat tgtccctgag gccattgtt tcaaaaaggg 120
 ccaaacaagc tgcttcaaaa ggcaaacgcg aagtttcagc actaaaaaaa cccgcgaaac 180
 agccaggcga ccgtaaatga ccgtacgtg ccaccgaccg ttgcgtccct tcggaccctc 240
 caggccggcc tgtccatttc ccgcaccggc ttagaataac ccagatccac cgccgcttaa 300

gggtccctga agaagaaagc accccgctac cattggagac cgggatcttt atcctcccgg 360
 gttggcaccg cacgaccta tacgaggagg gattggccct ggtttgactg gtgaaggcgg 420
 tggcatgcat ccaactttcg atgacacctt ttttgaagga tctcaaggag gcggtctacga 480
 cctcggggca ccgcctggtg caaggtacga tcctgtaggc cctggacaag gacctccgtt 540
 tggccaaggt tttggtcgag gccgggggtg ccctggcgga ccaggatctg ggggggttgg 600
 tggatttggg ggaggggtcg gcggtgacat catctaaatt tgaagtacga cacgacaccg 660
 aagtgggtga tctaaatggc ctgtaatggt agaaacgaag taatgagata gctacgagta 720
 tcataaacia aaagtattaa tcggtattct ggcaatattc tcgtttcttt ttgtgcgtat 780
 taggtgcgta ttggtagctc cccaccatac ggtgagttag ttctccgggt gtggccttgc 840
 tgtggcgcac gggcggccaa acctcgtcga ctctggttgc cagcaaacct gctccctttc 900
 ttgttctcga caactcccat cgcatccca tcgctcagcg acacgaatta tttccccaat 960
 agacttctct ctgccttaa tttctatttt cagttccatt ccccttttgc tgtcccgcca 1020
 acgacgtaag cgactgcgcc tcacgagacc ctctgcctag ctctccacc cctcctcggc 1080
 agccgtttcc ctggttatta tccgcctttg agctgcttca cctcccaacg acaatggata 1140
 acaatatgga gatcgatgcg gcggttgcg cagagccaca ccacctttcc ccgacaaccg 1200
 accctgggtc gatccccacg ctcgatggct ggatcgagag tttgatgacg tgcaacaac 1260
 tcgcagagga ggatgtgcgg aggttgtgtg atcgggtgtg ttcttttggg ggaatgggtga 1320
 agatactgtt tcctaactcc tgactatcag gcgcgagagg tcttgcagga ggagtcaaac 1380
 gtccaacctg tggatatgtc tgtgtttttg at 1412

<210> 2618
 <211> 2937
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2618

tcgtatccgc gaaattctca tgggtcccta caagatgttc cttataccag gggtcaccc 60
 tgattttctt gtagtcctcg aagttgcgaa ataccacttg gctaaagcag tcgtagtcgg 120
 caatattcgc catttgcggg tccatgatct cgtacatcag ttccgcgcgtt tcggtggggg 180
 tgtggatctt gcttctgtca ggacatttct gacagagtac ggtatatgtc ttcaaggaaa 240

gatatggttg cggtggtgga tgcacgtacg acagtccatc tcaaaatacc atacttgatc 300
atcagatcct ttgtcaacgg tgcagagtgc tcaatcatgt gtttgcggtg agcttcctca 360
ctcatgcctt gtttgcggtg cgcgaggata gtgaggcaga ggagacgatc ctcgagggtg 420
gtggagtttg ttgctggggg attgggagtg gacatTTTTt ttgaattgat gcgggtgaat 480
tctgagctgg tcgatgtggt tgatgagtga ggatgggcga gtggaggctc cctatataat 540
gcaaaatgac ccgagacgag atccggacag cggcgggaaa ttaagcacag atcgggtcat 600
taagctgtta tctacgacga tagatcacat cgaggcttac ttcgtcgcgt caaggatagt 660
gaaatatgca tagaccagtg ttttcatctg tacctatata ccataactct aacaaccgaa 720
agcaacagcg cagccctttc actaccggtt aacatactgc ctaattatag tactctaata 780
gccagcttcg cagatcgccg atggtaggat actccaggaa caaactacca gtcaccgtga 840
ccccagctc ctcccgaaac ttctctgcta tcaccaggct catcaagctg tcaaccccg 900
ggttgcaaaa cgaggcatcg tccgtgagat ccgaaagctc cagcgcagct tctttggcaa 960
taagcacaag agctttggct gctacgctgt cgctctcacc agcggcggct ggtgcagctg 1020
caggtgtagg gccaggagca ggggccggag caggggctgg agtaactgac gccggtgctg 1080
caggagactg ggcaactggt gcagctgcag tagccggggt agcgactgga acaggctcgg 1140
gtttggttct gggggctggc gtactcgaag cggcggcatg cgaaatggct cctgcctctt 1200
ccggtgccgt gaagaacctt ttaagcagga tgcgtggata ccgccggaac tggattccac 1260
cacacatccc aatgatcgcc ccgtcttgca taatgtatac atcgccgagg taaacagtag 1320
gatcctcttc ggtctgaatc atcttgacgt atgaccggta tttggcacct gctacaagcg 1380
gtttggcgaa tcgcagagac ttccatcccg gagtcacgca gtagttggcc ttggtatcaa 1440
tagcgtcgga cacattcatc acgaaccag cgagatgcgc gacgctgtcg ataaagtaag 1500
gcggaatagt ccaggtgcc a tcttctccg tggacagcgt gatatcggcg aatgcttcca 1560
gctcatgcag aaccacagac tgcataccgc ggtacttctg cgcgtagtcc acgaggttgt 1620
tggcaaagag caggtaagcc atattgcggg taaagcgggt ggcaatgcc tcttccgcaa 1680
gtcgtccaa agcctcaatc ctaccctgaa ccagatgcgt gcttggatc caagacttga 1740
gccacagagc cgcacgtcg tataatatcg aggcacttgc aaaaggctca tccgctgtgt 1800
tgtcattgag gacgttctgc cagatgagct cagcaacccc cgaattgata tctgtggttg 1860

aaatggtgac tcggatatac tgcggctttt tgggtgtttt ctgcgcaaca agtcccctca 1920
 aactacaag attggccatg ttcatatcag gcgccttgcc acctttgacc aggttcttgt 1980
 acagataccc tcccagagta aaaccaatgt cgccgtgtat agactataaa atgtcagatt 2040
 ataatggggg cgctgagtgg aatacttacc gaagttacca caccgcatcc gttcatctta 2100
 tgtccatgtg cagcatccaa aaaatctggc tgcacatcat cggactgcat caccacttta 2160
 cccgccgagc cgttgaagct ctctcgata atctgctgaa cagtggacgt cctcagcccg 2220
 gatggtacgg aggccaattg ccctgtttgc tgtgccttga gtgacttttc ggcacgtaa 2280
 aaggtgttcc cttttgtcaa tgcccagtcg ccgttgtact ggatccagta cgtcttgtcg 2340
 ttccaggcgt atgtaggaag gtctaacagc ctacgccctt ttccgaacgg gcgttggtat 2400
 tcgttccatt cgattggcac accagcacag tgcaaggcag taagactatt acataaagtc 2460
 acccagttgt cctcacctct cttcattgag gcgaccgtct cattgacagc tgggagagtg 2520
 gcattcacia agcccatgca aacgggatgc ggcccaattt ccacccaaac agtctcttca 2580
 tcaaccgtcg agaaagtctg tgccatctca agtgcggata agaagtttac tgtctctcgt 2640
 gtggcacggc gcatgtatct agcggtaatg gtcttgtcat caaaaatgac tttgccaac 2700
 aggggagata tcacgggcat attaggcgca cgaaacaata ctccatcctt tgcagcttct 2760
 tcaaagtcac caaggatagc ctctgtttgt gaggagtga atgcaaatgc gacgtcaagg 2820
 ctggtgcac aatagcctac tgagtgaag attgcagaca caacctcaaa ctgagcctgc 2880
 gatcccgatg ggacggtttc ttttagcccg ttgatgcatg caacttcata gatcggc 2937

<210> 2619
 <211> 3324
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2619
 taggtgtcgg gtcaagttcc acattgactt ttctggacga cttgtaatca cgatattcct 60
 ctgcaattcc aaaattgggt cggagtgacc agctaggaag cctaggtgat tgtccaggcc 120
 gtagccctgg tatgtgcagc aaatccaagg ggtagtctct caggttgacg cgagcctcac 180
 ccatgtccag ttgaatgctc atcggaatca gtaacgcata ctctgtagac atcggcacgc 240
 ctttgccaat attatggagg aaaagagggt agttttccga aggaaatgtg ggtttatcga 300

tggtcagatt tatgtcgcta attagagctg ccatgagagc aggtctatTTT ggaatagcca 360
 gcactgtctc ggTTTTcttgC acatcttctg gaggatcgtc agcacctca aaaagatttc 420
 gaacctctct gattgtagag ttttgaaact gtagagccgc atcgatcttg gctttccagc 480
 tgcgcgcatt atagtgtgg agccaatacc aagcactttc cgacgatacc ttcgcttcgt 540
 tggaaaaaga cgacgctcct tcggtatcgt agcggaatct atgtgcacgc ccgcgctttt 600
 cctctttctc ctctgctcta tcgtttctcg gctttggatc cgcgctcttg ctctgcgag 660
 agtctgaact gaccgctcg ctgcgcagtg ttcggtggct ggatcgagta cgcaacctcg 720
 aagaagctcg cctttggTca gattccttga gcttctggag tttgaggtga aacgcacTct 780
 ctctagcgcg gcgctgacgc tgttcaataa ggccagtcCG atatatgcaa ccaagcttcc 840
 actcaaatgc atcgTctcc aactcgaaaa gcagagcttt acttctgaat gagatcttag 900
 ggactttctt tggcccttct gggtccctag cagatacgaa gtcgggaatt tggTgtttta 960
 agcggtgatg tagttgttTc aaagctttgg aagtgttgat cacattgtcg aaaatgcgat 1020
 gcatgatcat gtggtgagga acaccgatgc gtacaaagtc cgtccaaacg tcgatcgatt 1080
 tatctctac caaagacttg cctgcttca gcttcatttt ccgcaagtcc agtcggaaat 1140
 tattcatgct gactattcgt gccagacgc ctctgagctt gggTgcttca gcatgtaacc 1200
 gaaccagatg ggctcgaaCg aacggagcgg aatgtcgatg agagccggca gtaacgccgt 1260
 atacttgCag caacatcggT gggTctgctg gcataaatgt cttgacttga agcacggtag 1320
 cttttatgtc cactgtgata agctcgcccc gctggatagc caagcgaggg gaaagtggag 1380
 gcgaagtatc acccgcaaca tttggggatg acggttgctt ttgcgaggat ggtaagaacg 1440
 ccttctgaag tactgacaaa gcaacgctga gacaatagta tcggtacagg gaatattgga 1500
 ggtaaacgcc tttgataaga gagtttacat ggaatatcgg tcccaggcga tcacttgacg 1560
 tgctgagggc tatctcgaac cttgggagcg agaggaatgg ctcagactca aggtagtctt 1620
 cggattcaat aacgaatccc tcaaaaccgc gagcatggaa agccaaccgt ctcccatcag 1680
 cagctccagg tcgggtttgc ttaggaggag atgttggatt gaatctgaac ggcgactcgt 1740
 caccaatggT ggagtgactg ggagtTcgtc gacgtacaac gctcactgca gtaggctctg 1800
 tcttctgagc tcggtaatca gctgtccagg attggagttg taacgaaacg ccccgctca 1860
 ctttcgacac actctcatca acgcggcgga tctctaagct gaaccggTg gcctcgaatt 1920

ggaatctaag tagccaagga ggaagacgcc gcagaatact cggcttccgg tcttcgcctg 1980
gcaagccgta ctttttcttg ggtcgaattt gggcacgaaa ttgctccacg acttggtgaa 2040
tcccgcgatt aacctcgta ttgaccatat ggccagaaaa attgtttaga ctgccagaaa 2100
ccacaacgca cacctctggc gacgcgctta gaagaagctt aagctccatg ttgtcgggtg 2160
tcaagagatt atgtttgatg cgggacgggtg tctggtagta gaatttatgc gaagcaactc 2220
gataaataga ggaaagcgag tagtgggcac ctccctcaga ggaatgggag gattcaacat 2280
ccacagatat agaagatatt gatgaaataa ggaggttgta gtcgtcctcc cctgtggatg 2340
aagaatctgg aatgggaaga acaaatcgaa ccacaggctc atgaaccgat agcttgatat 2400
ttgccttggg aagtaagcga gatattagtt gacctctggc tctcttcttg cctcgggaag 2460
tggatgcctt cgtctgagct agacctaaaga gtcgcgagac atgcctaggc tccaagtcga 2520
gagcgggaga ggtgaccacc aagttggcga agagaatgtt ggtatttcgt tcctccgcgt 2580
tgaaccatc atatgaactg agtgttttgg acggcaaagt tgttttaata gtcgtagttg 2640
ccatgggtat atacaggata ttatccgttt ctctgagct gtcacccagg cttacggata 2700
gagagatagc ggcgagaagt gcttgatgag caacgtcagt acgttggaag tacatccgat 2760
gtgctggact cgtctgggtc atccggtgga gatcgatgcc gatctcatgc gaaacaacat 2820
tcaggtaaac agagctttgt ccaggcgacg gtgactggac agatcgagat agtctgaaga 2880
agcttagtgc cacctgaatc tcctggattc cgcgcagaag tgaaccagca aactccttcg 2940
aggcagtcac ggtctcgaca attgtctcat ctgtgctgcc gggcttcttg agctcttcca 3000
cgtagtcggc aaaggtgact tcctcgtcgg gtttggtaac gtctacctgc actaggggtt 3060
ttctggattg cttgattcgc tgcaccagaa gcgtcaagtc atcataaggt atatgcatcc 3120
tcccgatttt gaaagcgacc gacgcatccc gcaagccatc aagtccttta tgcaggatcc 3180
catggatgtt cacgccaaca ttatctagca cctcgatcgg ctcgttgcca tcgacagcca 3240
cctggacatt gtgcacattc aagatccact cggcagggcg ttgttcacca gattagacca 3300
ttttctggcg aaaagccttt tgga 3324

<210> 2620
<211> 2519
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 2620

```

acgtctgtct ttgtggttcg gcccggtcgg aaggaggcgt tgtgtaaacg ttgggtttcc 60
ttgacaaagt tgttgaggta aggaaggctg tgtgctaagt caggggtcca ggttgctctg 120
ttgggctcgc cactggggcc gacaatgccg tactctacaa gttcgctgta gaggcgatct 180
tgggtgcctt cgtacgtgac gagacagtag atcagccacg ataagagggc cgatgtcgtt 240
gtgaatccgg caccctgac aattaacatg ttggccagga tcaggccagt tgggaagtgc 300
tcgcctttct cgtcaaccgc atgaagaagg taatccacga cgcaggatgc gctcagcgcg 360
gcatcactca tgggtgcatc ttgctggca gaccgggccg caacctcgtc aatagcctcc 420
ttagtagagg tatatatggt gtgctggaca gaccgcagac gcgctgggtc gccaaacggg 480
agaagtcgat accactctcc gcgtgctgtg attttcttat tcagtgagag caaggacgca 540
atgttcgtaa caatcggatg caaaggggaa tctattgatg cgaaatgccc aaaatctttg 600
cccagcgaga acgacccgat cgtctgcgaa gcgagcttca ccatgtactg gtaaaccattc 660
cagctctcat cgcgggcac cagctcatcg aatactggga gtgccttgcg cgcgcaattc 720
tgcattagtc ccgtgtagtg tctcacggct atcggaccca tggcaggggg aagatacttg 780
tgcgcaagac gccagttctc cgtctccgta tcgccgatga aaatggccgt gttgtccttg 840
acgccncaga gcgggtggtc ttcggtaatc ttcttggtca tgtagattga ctcggcgaag 900
cagctcgccg ccacttgggg actgtcggtc aagtagattg ttttcccat gttggttgtc 960
ttgatgacgg gcccatatth gcggaagagt cggtagtggt tgcctagatg gtcggggaag 1020
atctcgtaga agctgccgac gagggggaga ccaggcgcc cctgagggga ttgcacgggc 1080
ttcccatcta cgaggatgcc gatggctgag gaggagtttg ctaaagtgag gacttcgtct 1140
accgttgaca gggttcctga ggaggtgttg aaagagagtc ctactctgtc agcttcgagg 1200
ccgaggatca gtagacctaa tgacataccc aacggttgcg caacgtgaaa cactaagccg 1260
acagcacgct gtagatctc gaacttccac cgggtgtcga cagtgaaggga ttgtgctgac 1320
gaaggttcat ctccaatgag gtagaactgg cactgcacag tagggggtct cattatgata 1380
actcgttggg gactacattg gctcgtatth gcgctgtcca cttcattttt atatcttcta 1440
aatcaactcc gaccctatc cgagcaaacc ctgagctcat agtgtgtctc tccgggatgc 1500

```

cggcattgcc agtgtggtga atccgaatca cgtacgaagt tcggccgagc tctccgtaag 1560
 ccggaaatcg gcataaccgga ttatatcga gaaaacggac agaggaaaag attcgttaga 1620
 acgcttattt aaaggcaaag agtaatcgat ttactgtcta gtcgctatac ttcaaaagaa 1680
 actggcatca tgccttccta cacgcttgaa cagggtcaagg cccactgcac accggatgat 1740
 atctggataa tctctgcaca caagggtaca tattgctccc atagtcgagg atttattctc 1800
 taaccatgta cagtctacga ggtgaccaag tatctcgaag accaccctgg tggaagcgcc 1860
 gtccttattg aagttgccgg ggctgatgcc acggaagctt ttgaggagat cggccactct 1920
 gatgaggcgc gcgacagctc gagccgtatt atattggtga tttgccagat caggtaatgc 1980
 cggctcttga tcgttgactg ctccaccaag ccctgacggt gtacaggaac aagccgagtc 2040
 cgtcgagatc tatcgaccga ccttcgagca agtctcacag tctgccgtca tcaacaccaa 2100
 gaagacgagc aagtccttct cgtcgttct tagtgtgcta gtcaagctcg gccttacagg 2160
 tgcagtaggt gctgccacaa ttgcggtctt tcagaaaaac tggacgcccc gtcagctatt 2220
 gcatgctctc cctgcgctga cactccaat cccgctccct cggatatcag gcagcggggg 2280
 atcccagttc tgggtctggtg ttgggattgc caccatcacg cagctgtctc tatcctttgg 2340
 tctgggcgtc tgggtgtcga ccaagctcga cgtgcagcaa gagtttacgc actaccacc 2400
 tcgacgacca gcgtaagcg cacggctcat ccgctccct tccactaac gtcgctggca 2460
 ccgcgagcc cggctcttga ctccggcaat ggcgagctt ccctctcact agcaagaaa 2519

<210> 2621
 <211> 1686
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2621

gtggtggctg tcgaggctca cgggaggggc accaagtggg tcagaccaat gaatttgaac 60
 ttcatccagc aacctccca gacttcgacc tacggtagag tacaagacct tcgtacacaa 120
 tggcggaaga cctggctgat gtctcgttg aggctccgc aactcactat cgatctattt 180
 tcctttttct cggctacctg tctctaatac tgtecccttg tttcagttgt tgtcgcacca 240
 tatatgttcg atatcgcgca cgcaaacga acaatgactg ggctactagt cagcggcagg 300
 cgcatttata cttatttgtc tttctggcag ctttgagtct tggtacaaca tggttttaca 360

tgatctcact ctttgtccgt acgtacaata attgggcaac tagccccaag ggaataccct 420
 atgcaggcga agagacgcct ctggtcactc ggatgggtct ttggctatac aatacgtaca 480
 tcttccaaga ggcttgggag acggtgtccg aggacgcagc acgagtctgg tggagtggcc 540
 agatcttttg gtggaccatt ggttggagtc ttttctcgg catcacaggt atgccatcct 600
 caaccatgaa gcaggcgact ctgaataaca tttatggtaa caggtcggag atatcgcat 660
 cctcacgtct gggtttatat gctgctggcc caggctgtca gtgtcgcctt ctcggaac 720
 ctcttcttcg ctgcaatcac cgtctctaca cgaccgatg agaagagcgt tgccttttca 780
 tggccccgc cattattcta tgaagtcgtg ccagttgcac tctcgttct cgacaccctt 840
 gccgtcccta tctttgcgta ccagaaagaa ttcagtctag tcttgcctgc gcctcacttt 900
 ctggtcttcg tccctgttt gttgagcccg aagagctcgt cctcggagcc tactactaaa 960
 gcgcagggac agcgcacaac ccagcgtac gttgccttaa tgcagtgggt ggcggtgtt 1020
 tcggttgta tgcaggccta tttcactttc ctggcgttc aagaactcgg cacggatctg 1080
 tcttacggcg agttcgcgaa gcagttgtgg gacactgtgt atgtccatcc agctttagc 1140
 agtgtcagct gggatgccat catgagtgt gtgagtgcac tctcctgggc gtatgtgcac 1200
 ggtttcgaca caagtcggat gcttgggtgg gagtaagtgt tagatgggta gatgtcgtga 1260
 tctcttcggc gacctagca ggtacatata tatgtccagc aattctcatg ttaggtgtt 1320
 gggcttacc gagagagccg gaaaatccgt cttgatatgc cgacttttga gcaagcaatt 1380
 tatttagcgt agcagctaag gaatgaacat gcgagaactc gccttgttca agtatcggt 1440
 tagtttcgg ccagtagcta atacaatttt ccatttgacc ggctgcccct tagagttata 1500
 gccatgcaga gcccttgcc aaacacctat ctaggggcta ccccggaac tcaagtggac 1560
 gcagacgcac tatttccaac gaggccatca gctcgtgaat taagggcctc taacatcaca 1620
 gtcagcaaat attccagcaa aaaaaggag aaataggtca agcaagcctg agtccccggg 1680
 ttcggg 1686

<210> 2622
 <211> 620
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2622

```

tttccgcaag tegtcatcc agatctcaat ccgtgcagtt ctgcttactt tttcttgaat   60
tcattgcgcc tegtctcgt cttcaagctg cgtgctaata tgtccaaggt ggtttcgtcc  120
aagacaataa ttatctctca ataacgggta cctcccaatt gcaacctccg tccctgcag   180
cgtacctttc cggatcgata ggacgcgcgg tctatcgctt tctcgaaacc acatcaaacc  240
cacagctctt tgtctccggc gcttagcatc ccgtactagc gagtatacgt cctcgaacct  300
gagtcttata ccaccaatgg gcagttagcc ctaagacca tgcgccgttt cttcattgac  360
acgcccctat actcgtcgtg catcgccggc ttgggtagtt ttcagcctct caataagctt  420
gcgtagcaac gccacactga actcgaatct tgagcagtg ctgggtccggg gtgggaactg  480
tcaagtggcc ccaaataaat caatgtaaga aacgccatcc tctctagtcg ctgcctcgtc  540
aagtccccca cctcaattc acccgaaacg tctggccgtc acctgccctt gcaagtcaag  600
cagcaaggct gatgacatgc                                           620

```

```

<210>      2623
<211>      1041
<212>      DNA
<213>      Aspergillus nidulans

<400>      2623

```

```

tacatccgtc cttgtttacg cttctcggat gaaacaccaa gccacctcca cggaaagcca   60
tggggtcgcc gctgaaaaga aagcgtctgt atctttggtc aggagccgac gacgaatacg  120
agacgagcga tatcgatttg caagaagcac gtaccagaa cgacttgctt ctgaagtcca  180
tctttgaggg gattttcgaa aagtacggtc gggattttac agacgtcggc gacgagatcg  240
accttcagac agggaagatc acggtaaaca acgggcacat cgatgcactc gaggtggaag  300
gcaacgggta tggggactgg ctgtcggatg caaggccgca gggtccgaga catgtactag  360
cagaaaggac ggattatgag ggcaagccgg cgcgccttgc ccttgacgcc gatgcgtggg  420
gtgcagaaga tactgccctg gaaggcgacc acgacctgca acatcccggc cggaggacgg  480
tccatctact atcacacatg cggccaggct ctaggagggg attgggcgaa actacggaaa  540
cagattcaga tcagggtgct gcgggtgacg gagaggatcg tgctacgtcg gaggtgaag  600
acgacaggtc gagtgtggat tctttgttag gtaccgcact atcaatcccg gccagaaaag  660
tcggtaagac caccaagggc gagactggca ccgaaaaagc aattcctccc cacgacggat  720

```

cccaccaata ccaggccgca cataactgaga gactcgatga gactgtggac cccatttggc 780
gcgttcctga gatcagtgcg aagtttataa caccgacttt gccgagtcga cctagaccta 840
acccaaagcc tgtcattaac aatgcagtac gttcgcagtc tccacccggg gcgagctccg 900
tttgggctct atccggtaca agaaagcggg atacggacgt agtgaagatc atacagcaaa 960
agggcagccc gaagaggcgg gtcacacacc attctagccc tgatgctgtc tgggactggg 1020
catttgcctga tggtcagatg g 1041

<210> 2624
<211> 1108
<212> DNA
<213> Aspergillus nidulans

<400> 2624

tagtttgggt tgtggtgtgt gttgatgaca tcaaccaggg aaatcctcct tgagatcttg 60
ggcggatgta gaggagctca ttggatggag tgagatcgga tgtttattcc ttggatcggt 120
ctgcggcaaa acattcgtta cgattagctg gcaatgcggg ctgagaggaa agacgatctg 180
aagagtaagt ggaaggggtga agtgatgagg gtaagagtac acaatcacgt ggaccatcct 240
atacaatatt gtacccttct ctattctctg atagaactgg acaaaaatata ttatgggttc 300
tcaggaagct taaactattc cttctcaata ataagcttaa tctggaatc ctcatttgcct 360
tctagccttg ttaagcatca caatttcgcc gcctccctc ccaagtcgaa ctccgtggta 420
cacagcagga aagtgtcctt caacgcctgt gacaattgaa tcaagtcagt acaccaatca 480
aactgcgaac gctgtccgtt tccctgcaat aaatagaggg gaaaaacca agggtaactt 540
accccaagtc tatacttctt ggtaacctcc tgataatcct ccgcggccag catatcacag 600
aaatgcctaa tagacgggta gtgcacgac gaaatctcat tccaccagtc ctcttcgggt 660
ctgtcaacgc tccccctcga gtctgagaag ccggagtcgg agtccggggc cgcagagcgc 720
cccgtgcgg gtctaatac attaccgact agtttggcgc ttccgccacg ttttgcagca 780
acaggattga agccctaact tgcttatcag atgacgagtt tgggaatggga tgatggattg 840
gaagggtcgg gctctacctg tccatatttg aagtaattct ccttcccacc ggggaaatgg 900
aaatgcagca ggttcaacat cgtcaccggc ttgtcgtgct ctttgggtgag ctctgcatg 960
aactcgagca gttccggact gacttcgagg ttctggcctt gtccgtcatt tccctgcttt 1020

tctttcaatt tgtccagact tcctgtcaac ggcactcgct gtgcattctt ctccctcttc 1080
agctccgcac cgcgcgtctg gataagtg 1108

<210> 2625
<211> 2350
<212> DNA
<213> Aspergillus nidulans

<400> 2625

tcagatctct aacaagaatt gatatgcgta gatgagtatt aaaggattta aattcatact 60
atccgagaaa tacaccgtca aggcgtttca gattgcgcaa attgtgctat atataccgag 120
agcgctccat tcatacatgc gacatactca tatcatcttc tcatcacccc tacataacca 180
tacgttcaaa ccccgagaac ccagctctcg aacctggagc ccctagtctt ttcacccggt 240
ctccctttct ccagaatggg cgcaaactga ctaacctccc catacttcct tacaagcgcc 300
ctccaataac agctctccgc cgcaggggtt aaatacctat ctcttaacgt cttaacgcta 360
ttctccgcaa tccgttccgc cgactgtggg ttgtccagca aaaactccac cttgcgttca 420
agatcagacc agtcccgatc aacttcaaca tagtttgcac caggccccga cgagacgagc 480
gcagaatggt gcgcttccag ccagggttagt ttatgtgtta tgaaaacgct cttgcagttg 540
aggaggtatt tacccttcc agaaaaagag cggccttcgg tgtgtacgag gaaggcgtag 600
gtgcagtgat cttcaatagg cagtacttcg ttatcagatg gattcgactt cgagtttggt 660
tgaaagcgag agtcagcca gctgatctcc ttcacattcg ccagctctt cccccccaca 720
gtatcaagca aggccttcct gatttctggg tttgaggaca cactaccccg ccaaaggagc 780
tgtttctttt tatcactgaa cggcagacct tcttccttag caaatatccg gcgccggacg 840
tccttgtact cgccgacggt gtcaacctcc ggccacgacc aataaccaa atcgggcatt 900
agccagatag cagcgtcttc gtctcttgg cgtttagtgt aagcccatat cggagatgga 960
tttgtactag ttctgggtgct gaagtcgtct gtogtcaaca caaatcgat gtcagggaga 1020
ctgtgtctgt cggggtatga cgatagtgcg cgggtgcagag aatgcaaggc cgctttgccg 1080
cgggtgaagg tgtaggggtg gggcccgtag tgcattatgt ataactacaa ccacatacta 1140
tcagccacat ccccttcttg aaaacagagc gaggtgtcg gataagggtg aggggaatacg 1200
tacctcgcca tctttgacaa gcagccctaa caagaccgtt cccgttccca tcaatccctc 1260

ctccgcgtgc aatatcatcc acgtcccat aactaatacc accattcgat gccagaact 1320
 ctgcagtcg ttccagttcc gtaaagagct ttggaaaagc taaggaacat tcgctctccg 1380
 agagcccatg cttatcgccg tcgcggtgga cgttgaattc ccatcttgac tgctgagtgt 1440
 catttactcc gggtttcaccg cttgtgcggg ttgttgagcc ctgatatacc tgtgtcgtcg 1500
 tgcttgacagg gtctattggt gtatagggtc cgctgccacc atggccaaaa tatgacggcc 1560
 gtctgaagac taggagtgtg agaagtgtaa gggataacgc ggcgcctgcg ccaaggaagc 1620
 ggagagttag agagtggctc tttagagcca gcattgcttg gttgaaatct gcaagtgtt 1680
 gttgtacaaa tatgcgtggt atgcgtgggt gttttaggt gcccaaatgg tatatgcaat 1740
 gagtgccag acttggtcgt aactgcagag ttggtttggg ttacgatatc gagcacaatt 1800
 gtgcagccat ctgagctctg cagtaatgat atccctagga ttgatgagat atatcgtgag 1860
 cctatggagt gatttcgca tgctgtactc tctttcgtgg attggctttt gagagataga 1920
 tggcgttacc atggcaacaa tcaatctcta catattaaag ctgacctcca actctgaacc 1980
 tcaccagaca cttgacgttt tccatacatt ttattttatt gactacacca acgataatta 2040
 gcaggccaga taccgcccgt tataggtaaa caggcactgt cgccgacgga caaaagtcag 2100
 acttgagcga actctatggc tgggttttgt tcttgatat gtacatggga ttccattcgg 2160
 agtgctatat aaggcagggc aggtgtattc ggggttactc aaagccaatc aataggtagg 2220
 taaggaaggg aacaagagtg acatcgacag gtgaggtaac gaaaagggta catagcaacc 2280
 agaacttcca atgctaacag ccacgaagac atagaataga ctgcgtacag ggtaacgaag 2340
 gaagagtggc 2350

<210> 2626
 <211> 1409
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2626

atcagctgct agctagtatg tcaacgtata tattctcttg acattgtggt gcaggcgcaa 60
 ataaaacgtg gcctgacaat gagtggaaat ctatgaccga aagtcgtcca tgctcttttc 120
 cttctcttttc tttctctttc tgttttgtt tgtgatgggg atccctgcta gtgaatccag 180
 agacagagaa gcgatgaatc gacgtggcgt gcacgaaaca gtacaggata gagcgggact 240

ttttgaagcc tcgagtttcg aggaacccca gaatgatcgg cgatacctag ctgaccgcct 300
 tggaggctta gcagtccggt tagcagcttc ccacgtcatg gtgcctgcct gttctccttg 360
 ctagccgaag ttagactggc cacaaggctg ggtacatcag ccgtgattca tacttggctt 420
 cccaatctct ttcattcttc ccatgtgatc tcggggatga tttattgcat tcattccctt 480
 ctctcctctt cgtcccgaat gaaatggctt agcccacgca ttcttttaggt atccttcatt 540
 gattcgtaa aacatgaggc tattgttaaa gtaagcaaata acaactcttg gcctttgact 600
 ccaccaacat ggtcgcgtgg tgaatcctag atcttaggaa ctaaccgtaa cgcaggaacc 660
 tgtctcgctc tcttcggaag aacagtgtcg tgcttcgcct cccgccacat aacgatttcc 720
 tgccatcatg agcgaaagcg agcttcgtca gcggaagccg gcggctcgct tgcgagacga 780
 cctcagcct agtcaagatg ctcaaccacg tctcaagcac ggaataccca tgcaggtgct 840
 gcggctcttg cttcttgcaa cttggttcaa ctgctgttgc gtcgttatcc ttatgacgca 900
 gctgatcggg tgccccctgt acatcatcaa caaacactat tattacgcct ggatggcgct 960
 cacgaaacga tcttttgggc tggtgataac ttcccttacc gagtggggct gcccgactta 1020
 tgtccgggtc agcgggtgacg agagtatacg cggacaagtt cgcacgcgcg acgatggccg 1080
 tctaaagaca acctttccag agcgccttgt catgatatcc aaccatcagg tctacaccga 1140
 ctggatctat ctttggtgga ttgcttattc gaacatgatg catggccaca ttttcatcat 1200
 actcaaggag tccctaaaat acatacctat cattggccag ggtatgacgt tttacggctt 1260
 catcttcatg gctcgtaaata ggctgtctga caagcccagg ctccaacacc gcctagagaa 1320
 gctgaagacc cagcacatag gctctgattc aggcgccccg aagtatgacc ctatgtggct 1380
 tttgatattt ccggaaggga caaacctct 1409

<210> 2627
 <211> 1582
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 2627

taaatgtag cgctttcaat tcaggcagac taaaccactt ctaagaagta atatatcgag 60
 tgctaagata aaggaatcat ggtgctacac cagccaagcc agaaaagaac tagatcgcat 120
 tttcgacctc gtctagtgtt gttgcgtgag ccagtatacc atcgggcctt aggatcacca 180

tcgcacccct tccaggcgag atagtatatg cagcatgggc cgattgatct tgggtcaaagc 240
 agaaataccc gagtcttgga atactgaaga acctgtcgcc atggggccaca ttttggggcga 300
 cgacagttat gaaccggatc atgtctctgg gaaggcgagt gacgagtgc cccagcgctt 360
 ctactactat tgctagattt gcttgggttt cggacggctg cccggcaagg attaagacgt 420
 actattgacc gaaattcttg gtcagattga ataaccggac cggcaggcgc gagcctgggg 480
 ggatacacca ggccgtctgg agctctccaa ccagcggatg tcataccggt agtcgagggc 540
 cgattaatca tgttttcgtt gtagtgaatt ccgagcccaa ttgagaactg gatcgtctcg 600
 ttgaaaagct ttgtgaagag ctcgtttgcg gccgtgtacc gtcctttata cgaatctggg 660
 atctggccag atatcacagc ggagaaggct ttgtcgagct caataaggcg gtgcgcggct 720
 gggcggcatt cactgtcgta ggtttctagg acaccttttg gtgtaccagc cattgatcgt 780
 accaccgagc ttccaggcca gattgactgc gtcgtgcacg ccggtgttca tgccctgggc 840
 ggctcccag gagtgagtgt ggcacgcgtc gccgccagg acgactccat tgttactgat 900
 gtaggtatcg gcaacatgtt ggttgatact gtatactgtt agatcatttg atggtctagt 960
 cttttttcaa gactgacctg tacaacgtcc accattggat actctcgagg tccagggtaa 1020
 gatggttcca ttgacttgac ggcttcctgt ttcgcgtcct cctcggttaag ccggttaccg 1080
 tatttagcca gcatctctgt gtcattggtga attcgatgcg cttaacgcca tgatctagtt 1140
 gcaccagag gacgttgccg tgggtgcttg actcaatgga agcaaagcct agatcagcat 1200
 ccggcatgtt cgtcctgaac cttccatcag ttgcaccca ccggtggtgg tacgctctcc 1260
 ctcaatggga acgttggcca gacgtcgaat cagcgactga cctccatctg caccgatgat 1320
 gtatttactg agagagagat tagttagtac ctccagtttt gatatacctg aggccttacc 1380
 atttcaccac cagaagctga tccgtcttcg aattgcgtac gtgcgaggtc actttatact 1440
 catnctcact ctcggtgtca agcgagaatg actctagctt ccagccaatg tagggttcaa 1500
 cacctaattt ctggtaagac tgtccaatga cctccttcga gtatttttga cgatgttgag 1560
 gcaattccca gtaagtcccg tc 1582

<210> 2628
 <211> 655
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2628

caagaaatca tctatgggca gattcaaaac gtacgccaga cggttgcctc ccaggctaac 60
caactgaagg atctagcgga ggagcgcacc taccatgcta ccggtgtggt gaaacagtat 120
gttgagact acagcaacaa agcccaggaa tatatcggcc gtcttccgc ctctcccgag 180
gtcgccaaag gccctgctgc agggcctgta gtcaagaggg aacccgagcc cgaggctgtc 240
gtcaagacgt ctgatttccc tgaagcacct aagggtgagc cgggtggcgca atcaatcgag 300
actcaatcag agaaggagcc tctcctggct atttaaatga gtctgcacga ctctcgcggt 360
cctaattctcg cctggtttca cggattagac gggttgcgac gcaggaccaa acccagctat 420
ctggcttcaa cgtccaggaa aaattgagac ccagttttgt gcactaaagc agtcgtaaata 480
ctgcttcttt gacatgaaag ggcctcagat ggcttggcct gtacgatgac gagttggtac 540
gattttgaag tcttcttcta gcctttttac tttcgtcttc ctgtcgcacg tattagttct 600
atctacctgc gcttgctgct ctgtttctct tatactcatt atttccgcaa tagca 655

<210> 2629

<211> 712

<212> DNA

<213> *Aspergillus nidulans*

<400> 2629

ttttcctttt tctacttgac tgtcactatt gacaacgcgg ataaaagtgc aacgagcccg 60
gagtgtgttg ccgcttttaa ggggtggaag tcgttgcaac atcgaagcca acccatacca 120
tccgctcttc atcgccagga ataacaatta tgtttttggg gtatatatct cagtgggtga 180
acatgccatt gtgtatctgc ttcattgctct ctgttgcttt gtgataacag gcctcagaat 240
cccattctgg gcaccgtgcc cagagaaaag tccccccccc ttccactgcc ctcatctct 300
gcccccccc tcccccccc catctcgtcc cccttcgggt ctcgaccagt caacctacgc 360
gaccgcaatc caaactccct cagctggcgc tactgccacc accatgaaga aggcgggcag 420
ggcaattaac tcagagccct agctgctgcc acgaaacaac gccgcttgac acttgtctat 480
tcgtatgcct ccgctctttc caattgtaga gatcgcgtac atatacggca atctggcaca 540
gacatctgtc cggtcattc gtacatttgc gcttgatttc catttggaac cgattcaccg 600
gggatgatcg aggatcgcca tacgcctacg gtgaccgatg ttctgctgaa ctgtagtcag 660

acggggccctt agcaagttct tgtttcggga aacactgtac gctgtagggg gt 712

<210> 2630
 <211> 638
 <212> DNA
 <213> Aspergillus nidulans

<400> 2630

caaccagagc tgggtcccgt gagatgttac ggccattcag gctcaggccg ctggtcagca 60
 tatccagggg atgaagatgt gctcgtacga cgacaccaac tgctccatca tcaactaccg 120
 tgccaagaag gtccaggacg cctacttggga gaaggacaag tgggtcgcacg gcattgggtg 180
 taagggtccg cggggtcctg tcaggattgt tacctacctc gactacgcacg aataaacgca 240
 attacgtgta caactgagca cgagcacgag tacacctata cgttgatat acctaatacta 300
 gtcagacgtt cctacctagg tagttggggc tggcgggtcaa tgtatactta atcctaattg 360
 cacattcttc gctggccact ggctgttga taatttattt tatgattctt cattctccta 420
 atatagatga ggagagaagg gggcagaaaa gcacttgtga atttctcagt ggatcattga 480
 gcatcatccc tgctgttttag ggagcattcg ctaggatgtg ccgcggaata tatctcgagt 540
 gggatattca tgctcttggg tctttacttc tgggtatttta aagaatgaac aacattcata 600
 aatattagaa ctgtggctac cgccttctga gctaattg 638

<210> 2631
 <211> 2367
 <212> DNA
 <213> Aspergillus nidulans

<223> unsure at all n locations
 <400> 2631

gcttctgatt tctctaacct aggtctaggt attgtttcta agattgtcac ctgtacggat 60
 cctatataca gcatagttat cagaaatgta cagatcaoct gccgcgaggt catacagcct 120
 agctgtttta gcttcagcac tcgcccggcc gtatgccttc ttacatatg aacaatcttt 180
 cctagccccg catggaaaag aggtgggtcat ccgtcttaca gacgctgaac gactgggtctt 240
 gggttggacg ggtcagacag tccacagatt cataagggtca ttgtgcagcc ggaacactca 300
 tcaccgctaa gaggatcacc atagccaagt attgaaagtt tgtaaattct ggctagttac 360

gggttgaacg ggtttgacat caccactcag atcgatgccg atctagggct ctcgatgcta 420
 ttgtctagac tacatacccc acgccttgat gacttgaaat agaccctta ttcagagaac 480
 cgaacggata gggacctata ttttcttcct cgttcccaag atagtgcctg gtaatttggt 540
 gcctaaattc tctacagtct ccgatcccaa cgctcaatct tggctgagat tcaggaactc 600
 taaagccaat ctatttccta aacccccact gatccaacca gagctcgatc caagattcat 660
 tgacggcacc aacggtcgtc aaataaggaa tcttcctgt cgtaagggtc gtatcgagca 720
 tcacattcgg ttggtccagg ttactcgcca aaccctggta gaactccaat aaggctgtgg 780
 ctgcgggtcat atatgactcc acggccttcg actcgccgga gtcagtgcc a ttgctcgttg 840
 gcgtccaggc agctagccgc tcggtcact cagcgagggt gtcgacgagt tcaagcttca 900
 tgggtggacgt tccatttgct aaatggcgtg taattgccg gatgagctct gggatatgaag 960
 agacggaggg gttggtaaag tggtaatatg ctgctccttt gttagtcttg ggtcctgttt 1020
 gctctgtatc tagatcgctc aggtcgagtg cgagtgtgac gagggccgcg gacagagagt 1080
 caacagggag ccagtctacg tcgtcgaagt gtcctatgga attcggcaag acgcccata 1140
 cttcagacgc acgcaggaga gtcgggaaac aatcgcgctc aggccattta ccgtcccat 1200
 gaataggccc gccacactgg ccgactcggc agactgcaga atgaacaccg cttgtagcaa 1260
 ccgcctggcc gagcagtttg ctgcaagca tcttgctctg tccgtaccg ccttgggtgt 1320
 atttgatcaa atcaagcggg gcctccggga caggcgatc cttatccag ccctggatgg 1380
 tagcgattga ggagagaaaa atgatcggg cgttctgctg tgagtcataa gctagctgaa 1440
 cgagattgac gataccggca aactggggct caaagagggc gagcgggagg ttgaacgtga 1500
 ctggccattg gcaatgaatc acttctgtga cggttgagac aaggtgtgta taggcttctt 1560
 cgtggaggcc gaggagaggc tgtgagagat cgccttgaa gtggttgact actgtggctg 1620
 gattcgaggc cggctctgag tcgggaactc tgcggtttat acaggtaatt tcagcgacat 1680
 ccggcggttg caggagagct tggaggatga agccgccgac gaaccgggtg ctgcctgtta 1740
 gcaggacgtg gtgggtgtct ctttgggtgc tgggtgggtg tgattttgcc ggctgtggta 1800
 gcgttgacga atacctactt cgtagttac tggatatgcc aaggcacgaa tagcttcata 1860
 cttctcgaat agagcatcaa gagttgctga tacatcctcc gtagcgttac ggcggatata 1920
 gttcaccaat ccactcgag tcggattcat gtacactgca ttgcgtagga acaggacatc 1980

tttctggtct ggcaaagatc gagccaatgt tgccgccagt atctgtacct gacgcgagtc 2040
 taaaccactt gcgaagaagt catcactgat gcctaggtct ttgaccttcg tgaggctgcc 2100
 gaccatagcc gcgatactct ctgngagggt ttcacagtt gaaggatcca gccgagcttg 2160
 gagtgcctga tctgggatct ttgaggccga gctgtataga gcttcaatct cctttgcata 2220
 cagtttgttg ggctgctgcg gttattgaac tttagaatgc gaacaaggct tttcggttgc 2280
 taaaggaccc ccgcggggtc tgcccgatta tgtcattgtg agcttccaga tttgaggctg 2340
 ggggatccca tgtggaagtg cattacc 2367

<210> 2632
 <211> 1023
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2632

cctcagagcg tcaactgaact ctcttctgga gcatgtgaat gtctcctacg agcgagcgcc 60
 ggtcgaagag tgagggatgg attaggtgtg aagctgctg acgggggtgc ctgagggtgag 120
 tttgatgaca acctctcccg cctaaatgga acggacgacg ctacagagac ggcacatcg 180
 tctgatcgg ccgaaccag atggatgttg cctggaaggg aggtgagtat agagtttatt 240
 ttctcatcca tttgatcctt gggccgaacg ggcttttttg atacggagga tgaccgagat 300
 ttagttttgc cagctaaagt cctcacggtg ccagggtgtg tctttgattt gtaggcacca 360
 atgctttcaa gactgggatg agcagtcagc tgctttttga gacgagctgt agtggcgctg 420
 ttgagagggt cagccctggc cgaggcagat ttggactttt gacgtctttc agctggtgac 480
 tgagacttct taggcctaga ctcatcctca ttgctggatc cgttgctcga atttacgtca 540
 attctgtcgt ttataaaacg ttgcagcgtg agactgagcg ttcgaccgtg cggaacgca 600
 tcccgaaggc aaggcttttg agactcccag tggagcaagt gatcttcgtg caagtcgtgg 660
 tcgtcttttt ggcgcgtaga agttgatggt ctatacggcg gcgtctcaaa gatcgatgac 720
 gaagtccgtg gctccggcat ttctgggctc gacacaagtg aagggtaatc agacagggag 780
 ccatcagatg tgttggaagt ccgcgcgca cgagatttct gtttatctga taacttaac 840
 ggactatcca agggcttctt tgcgcttttc tcatcttgct cgggttcttc ggactgctgt 900
 cgatcactag gcgccttgct attgccatag ggcataaaga gattgggaag agatgctaaa 960

tgatctgctg ggggtgttgc gcaacgcgtt gatgggtttg aagtatgagt ccctgggtgtt 1020
atg 1023

<210> 2633
<211> 1393
<212> DNA
<213> Aspergillus nidulans

<400> 2633

ctgagcggag gccgcctgtg gatgaagaga cggtcgcgag ggactggtcg cggctcttcgt 60
tgctttctcg accggatata aaaatagcta tcgtgattgc cgcagatgac aaccttctgt 120
ggatgaggaa gcttgcgcag ccagtcgaca gcggcttgaa tctccttggc actgccgtcg 180
ttgcacaagt cccctgcgtg gattaggagg tctccgtcag gcacatcggc caattctaac 240
gtgtgagtat cggagatgca aacaacccga atcggacggg cgtctggagg aggcaatcga 300
ggagggccgc gaagtgtga tagcaggttg tggagaggt agaggaacgc ggcgagaggc 360
gaggcgaaga gatagtcggg aaaaggacgg cgatggaatg gagacgacat cgtaatcaac 420
tccaataatg cactgcgtac tctggggtgt tgtggttgaa ctgactcgaa tcgctcagtt 480
cgtgtctccg agaagtagtg aagagtggag agtatcggtt agagaaggga acggatgcc 540
tggcgctatg gcagacaaac accgcggcag atttacaccg cggcagattt aggcggtgag 600
ataaagcgaa atagtgcgtg tgatacgata gcaacagatc agataagcgg catcaccc 660
tctctgaggc atcaagacag cctcgcaagg agcgaacaat ttcaaaacgg ggaggaggta 720
ggcataggcg agaagtcaga tcaattgaca caatcatgga caccagtctc aattaaatgt 780
acccactgt cgcactgtcg cagtaggggtg gtattctcaa agggaacaaa tataagcgag 840
gtctgtccag ttgctaaggt tctggctagt tgtacggagc atacttcatt tcaagatatg 900
gtcgaactac gcaataacca tacgatgggt caagtagaaa tgtgtaagaa tggcctatca 960
atatgcacaa gacataaaaa taactctccc acagtctcga gtataaacia cgaacgccct 1020
ttgatccaat caggaggttg acaaacgcgt actctgcata cactattgct gcttcttcat 1080
atccggtttc gcctggcttt caataattga agctgccacc tgggcagact cccgccaa 1140
cttctgccgc atccagaacc gctcctcagc aaccgtatta tgcttcgacc aagcccgct 1200
gtcatcttcg agcgacttac gcgttaggtc ggacagctcc atggactcat ccttcgccgt 1260

aacctcctct tctcatcgcg tgctgcgcgc ccctagagtg gcctccaggt atcgcttgcg 1320
 gatcatgtac tgttccgtct tctcgcgcg gacattgtcg gctcaaactt ggcgatccct 1380
 ttagtagggg tat 1393

<210> 2634
 <211> 1437
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2634

aaccttcgtg ataggcttga acccacgggt ttcaagaagc gatttgagcg caaatggctt 60
 caaatacggc ggtaatgatg aaaagtacac gacgccggtt ttgttcttct tcggcggctt 120
 attttttagc ttgtcgagcg gcttctgggt cttcttgggc ttcgcttttt ccacttcggc 180
 ggtcacgtca aggtactggg attcttgggt catgtaattg ccatcatcgt ctgagtcatt 240
 ctcatattca tcacgtgtc cgcgcttctt ttcacgtagg cgtacacctc ccgcttctgt 300
 atcgctttct tctccctctg atccgcctga gctctcgtcc tcggaggcgc tttctatgcc 360
 atcttctcga gattgtgtct ttcttcgctt cacagtccga cctttactct cttcagcggc 420
 ttcgagtcga tatccggcat cgttgtcttc gtcgtcgtcg gttccgatgt ccaagaattc 480
 gttgtgtttg cgggtcgtca ttgtattaca tggatatatt tcgtaggtaa agtgggtgaa 540
 ttatcttggg aacacttcga ttgttaaggt tgttctagaa ttcgatgttg caaacttgcg 600
 agacttaaga tggctgcgga gatcaacttt ttagaccgcg gatgggccgt gcgtcttgcg 660
 ttgatgcctt gtaattcagg tagcacaact aactaaataa ctaactagtt aacttatagg 720
 cggacgctac gttgatgttc acataaactg gtcatgagaa tgctaacaat ctgaaaatgc 780
 ttatggaagg tcagcaatct tttgctcaca gaatagaagt ttaagatata ctcttccga 840
 tcgtgcaata tcaattccat tgagttttta aagaaaagcc acctcagctc tttagctgac 900
 aaatgtcatc aaagtatcta atctttatat tcgataaact tatctacagc ggtcgtgcc 960
 tagttcaact atgtatagaa cgtaaataat cacatgaagc gggatgatg ataagatacc 1020
 aacatcagga gacaccagc ccgaaggagc ccaaaccaga tagcaaaaat gaagcagtct 1080
 cgaagaggaa gagagcaggt ctaaaccct agtgaccatt tgagccgttc ataaacaaaa 1140
 aaaccagtag ccgtcatggg tatcatctta agataaccaa tcgtcaagcc tataaagaac 1200

ccgcgaaatc ctctttccat cattattatt cgcgctgttt ccgccatgcc caaacggcgg 1260
ccatcaccaa cgactccgcc gacttgcatt cgccggcgca ccacttccaa aggatatgaa 1320
gatgtttggg aaacaaggcc ggcgattgct cctgacaata attctgcggc ggcgtcagtt 1380
gcagtttttg ccgaccttc ttatggcccg aggacgaaga tcgagggatg gtggtgt 1437

<210> 2635
<211> 1046
<212> DNA
<213> *Aspergillus nidulans*

<400> 2635
gctttgggcc cgaaatgtgg tcgggagggg ccgggccaag gtaccccccg tggggtttcc 60
ccccgaagg gggccccccc gctttttgtt tccccaaaag acccaaattt ggctcattgg 120
gcctttgaaa gatttcttta aggccctttg gatcgcgctt aatgcctaaa aaccatcgaa 180
aaaaggcaaa gaggtgaatc caccggccga acccctgttt ttaagggtt ggtccaagac 240
tggaaaaacc tgccccggcc gtgaaaaaag gtggttccaa gccttgcccc accagtagct 300
ttcccttcgc tcacgatcg ggaagcatac atcggctgct atcgcttggt cctgcgcctc 360
ctagcgggta tatccacttg ctctctggta tacctagttc acgggcgaag gttgtcgtgg 420
tgatgataca ggcagcagcc aggttgaccg tgttgaaagc attcatgagt aggggatcta 480
gtgtcctgtt agagaaatct tcgtcttggg gccggtacta acatggcgag caaatcatgc 540
ggttgcgttt cgtcacgttc ccgatcgact ctgccgtctc tggtttctga ccataggacc 600
aagagaaagg gagtttagca gcggtctgag cgaactcagc gtacagctcc gctgactctt 660
tgtgattttc tgatagagtc tgcttattgt gcgctcggaag agctgcttcg tagaggggat 720
atacttggat tggggcccct aggaagtgtc ggctaccag gtctaattct gtgagcttct 780
gtcaaacttg agaaggcggc agtgctaacc ctctggccgt tctcgatccc agattgaact 840
gtgatcatca agcttagtcc agtgcatgg aggggaatttc tccgcttttt taaaggcctc 900
cactgttgcc gttagcatgg ccacccgctg ccatatcacc taggaaaaca aacatgaagc 960
caacgcctcg gcaccagtca cgactgccac ttactcctc ttatatgga ctcgtcgcgc 1020
acgttcatca aagagcgtac cagggtg 1046

<210> 2636

<211> 1125
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 2636

```

cttctccgcc acaggtacat agctcccggt gcgaacctcc catagcagcc cgggtccaac 60
aggtttccaa ccaagctgct caacagccct tcggttcgac gcacggtttc tgatgctaata 120
gaatccagca aggaacgggc cccagcgagc gactgcctca tcaggagtaa tagagcgagc 180
gggtactcct acgagctcgc tgatcgagc cgccatggcc ctgtatgtcg tggttgtgtg 240
cccagtagca ttgaagacgt ctccgggctt tgcgtgcttg gcggcaagaa ggtacagttt 300
ggcagcgta tcgacgtatg tatccgagaa gcagtactcg ccatcgccaa tgtacacgga 360
ttcgccggat ctgacgcta gcttgatcaa ttgcgcggcg aagccggttg tactaccagg 420
accgtagacg tactgcggga gccgtatgga gacaacgcgc acgctcttgt ctacaaacga 480
aagcgcatgc ctttcggcgc cgtcacgggt ggtaagaagg tggctgcta acggggcatc 540
ctcgtcggtc tcgcctccat tgggacggg cgcgacgttg gttgtcccgt tcgaaacgac 600
aagaggcttg ccggtacatt caaggccttt ggcatgggcg gtcacagcgg caatgtcagt 660
gttaactagc tcctggtacg gcttggtaaa atcgtgatcg aacgcaaggc gcaggacgat 720
gtcggcgctt ctgctctctt ctgtgagaag gtctgcattc ttgaggtcac cgcggacggg 780
agtcgagccc agcgactcga acagcgcatc gccttcttca cgtcgtgaga gaccgcgcac 840
gctgtaccct tctttgacgg cgaactctgt gaccttgagg ccaataaagc cagttgcgcc 900
ggtgacaaag accttttgtg acatggtgag aacgagtcag gctctaaggc gaggaataag 960
atacagagtg atagcttgca atggagagac ccaaacaaag cctgagaga agatagggat 1020
ggagtttatg accgcaagac gattgtgttg cagcagagcc caaaaaggcg gcagtacatg 1080
cttcgtggag ctacccgacn gagattacgg actatttcat acaca 1125

```

<210> 2637
 <211> 1868
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2637

```

aagcatgtag ataggaacaa acgcagcggc acggcggcgg ctgtgcagga acacaggatc 60

```

aggaccgtgc gtgagccaaa gaattcgaca ggaataatgc gacgatcaat ggaggtgagg 120
 acaagaaaga cctgctgcag gccgaggatg atgaacagga caccagatgc cacaaagcag 180
 ccaatgactt gccccgagtt ccatgggtag gtgactccgc cccacgagat ggcgaggaca 240
 aaggtagtca aggctcccat ctgcaagata gcccacat aatccagttc ccgagagcgc 300
 tctttaagtg aaacgccccg ccgaggatcc ttagtcggga gcaggaacag gtagaccggg 360
 gcgcagacag cccaattag caagttgatg tagaaggccc agcgccagcc gactgatgac 420
 tggctgaatc cgctccgac aacgggaccc aggacaatac caattcccca ggtaggcca 480
 gttccgccga catatagcgg ccgctccgac agggtcgtcg tcatggcaag caaggtcatg 540
 actccaacat agaggccggc accagccact ccacacaagg cacggccac gatcattaca 600
 ttcatgctcg gcgctgctcc gcaaattggcg gatccaattt caaagactgc gacgttgaag 660
 aggtatgtcc attttacatt gaaatggccg tagatctttc cccagatcag gtttgtagcg 720
 gtagccccga gtaggaaggc aacgctgagc caggtcaatt ttcgagctc tccgagggat 780
 tcgataatga cgggctgaat gtcagcgacg acgggtgttat cgagggcgta gaagaaaatc 840
 gaggaccaga tgcagaagac cgagagccac catttccatc cgtcgatgtc gcgcggagga 900
 gcctcagggtt cggggacagt gccctgcttc tcgttttcag gaatgggatt gtagttggtc 960
 aaagagtcgc tgctctcgac agccttggtg ggcgcctgt cttcagtgtg gtcgtacatg 1020
 gcgtagtata caggacggtc aatggcgcca attgtgtagt tcgaattata ggaccgcaag 1080
 gctctggtct tacacaaaca gcgacatatg gtgtctcttc agcatttgtc aggattaata 1140
 aaagaaacca taaagcaaaa caactgattt ttaatgagggc ttcgttcgca ttctctggtg 1200
 gagacagaaa atcatcgaag ccctacctag atagagatga tcgtcggcgt tgcccgatc 1260
 ggacagcttt cggtatcttc attaccctt caggattagc gtgcggaata ttcatttccc 1320
 tttcgggtca gccttaggga gtgcctaac ccacgagccc atagcattac gctaaggaaa 1380
 tcgttctatg taaacaccct agcgtatccc aaactactgt aaaatgcaat aaaggtctgt 1440
 actaagagca aggatgctga attctgccta atcaatcagt taccattata tctatgcctt 1500
 cttcgtggca aatactatgg tcaaaggagc ctcaattcgc acctttccac ccccgagtgc 1560
 catctccgga tcattccaga gatgctggat ctcatcccg gggactaccg gcacccatgt 1620
 tgcgaggtat cccttgaacc acgtcacatc ctgctcgtca gcccaatcgt cgtcgccttc 1680

caccatacgc acctcctccg atttcttaac cgcactttct ttgccgcgag aatcaagctg 1740
 ataactctcg atgctgccct ggcgatttac ccgccccac tcattgctgag gggattcgag 1800
 acagtccagc gccgtattta cgattgagac tgcgtgggtcc agcaacgggc ctggtgcgcg 1860
 cttcgagt 1868

<210> 2638
 <211> 4502
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2638

gtggcataaa tttcctacat agggaagaag aaaatagggc cccaataccc caaacggata 60
 ttgtgaaact ttctttggaa aagtattaaa gcaacagtgg gcattttttt gacattcggt 120
 attgaactta accatcccaa caaagcacgt aaaagtaagg caccgctaata ccatggggga 180
 tttcgggaac gggcaatacc ttgtattggt ttttatttcc ttgacaagaa ttgacctccg 240
 gtcccgggct tgacaattga gggccagggc gactcataaa gcattgcccgc atcaccgggt 300
 ttttgaagaa acaaaacca ctttgaattt taagtcattc atccgttagg gccttttggc 360
 atccctaaca gtatgcgtca gcttcgccag tcaaaaccag gtctatcttc aattctatag 420
 acctctcca ccgtgtttac catgtcagtc atgagtggac cagccgaacc tattccctca 480
 ccagctcaag aagttgggtc agtctatcgg tcagacaggg gaaagcctac agcaacagta 540
 tcgaaaagca tatcacatga aaatgtccat gtccctcccc agactccgca attgatagca 600
 cttttaacgt aggtcgatgc gcacatgcga aaccgatttt tgtctccact gacagtcttc 660
 cagtatgatt agagaccaga atacaggtcg cgctgatttc atcttctatt caaaccggat 720
 aatccgcctc ttagtagaag aaggactcaa tcattctccg gttgttgaaa actccgtcac 780
 tactcctggt ggtcgggtcat atcttggcgt taagtttgag gggaaaattt gcggcgtttc 840
 aatcatgcga gcaggagagg ctatggaaca gggattgaga gattgttggt gctctgtccg 900
 aataggaaag atcctcatcc aaaggacga agaaacttgc atgccgaaac tcttctacga 960
 aaaactacct actgacattt caaatcgatg ggtccttctt ctgatccaa tggtcgcgac 1020
 aggtgcgtgt cattcttcgg caccgcggta tgaaacataa cttaaaggaaa cagggggatc 1080
 tgcaacgctc gctgttgaga ctctaaaggc caaagggtgtg cctgaggaac gcatactttt 1140

ccttaacctc attgcaagtc cttcgggtgt tgcagatttc ggcgaacggt ttcccaagct 1200
cagggttggtg accgccttta tcgaccaagg tctggatgaa aagaagtaag cgcccagtaa 1260
tgacagtga gacgccccca atgctgagat ttttcaatag gtatataatt cctggcctcg 1320
gggacttttg cgaccgctac tatactctgt agtactagtc tcatagaagt acgaggttcc 1380
ctaggcatac tgtatgaact gaatctgttt aaacagcaag aaccaacact tatgcagcac 1440
agctgtgcgg ccagggtgtaa tcgtcagggc atcgtaccta ggcgaaatct gatatataag 1500
gcgggaattc atgaaatctt cgcatttttag agagggtgt cctatgtgca gtaatcccat 1560
cagtcctccc ccaagtcgct ggcaggctct ggcagccaa tgccgcgcc ttccggtgaa 1620
taggtccgag gactgggacg tgtggcatat tcatcggctt catatttact agctgtgtcc 1680
ttggcaacag catcacaagc atcaaccag tcggagtata catcgacagc agcggaaaga 1740
tctgcaaata gaaagtgggt agttgggtgag aggttgtaga agagcccaat gcctacagtt 1800
gatgccagtt tggaatcttt gtccgcaaac cttgcaggac aaatgaccca agcccagctt 1860
tttgtctaac ttcaccacaa tcgagttctc gtgattgcaa aaaaggcatg caaacgtgct 1920
cggaagaggc tctttctgct ccttgagatt agcatcgatc aagtagaagt tacttcgtta 1980
tacctttttg ggctgctggg gttggcggct tgacttcttg cgtttgcct gtgatttaca 2040
tgtcaacata acgaacgcca cgcgtccaac attatccaac tcagggtccac atttggtgat 2100
taaattaac ataccattct caaaatatgc aaataagaga tggaagtcaa aacttaatga 2160
tctggtgtca aaaggatatc tgaccggagc cggcaagtta gtctttcctt gagcgggtgca 2220
cacgtttcaa acaatgcaaa cttttagccg taccagagta ccaagaacct aaataaactg 2280
gtgcttcatg aaagttgggg tgggctctag acataaatct tcgcatgcgg agcctccgcc 2340
ccactagttt acatctagga agcctgccag tgccgcagta ctctataatt ctcgagatta 2400
ttctgagtaa tcaactctta gcaaagagta tactaatgca cctgtgtatg atcgctccaa 2460
ttacagagaa tatgacttcc gaacaaaagc ctctgaatt cgtggatgca tggctcaatc 2520
cccgttgaac agcttggccc taggaactga ataataatgt aaaacatttg aaactgaagc 2580
agaaagcctg ctccacgata agcagggagc aagaaatacc ggagggtatt tgggtagcct 2640
gtattagagt gcaacacacc tagggaagtg gcaaggaagg ccagaagtat tacatttggt 2700
gctaataac agtttgctcg gagtgtccat aaactgagca tgtcacaagt agtcaatttt 2760

tgaaaggcga aatcactgct gctgacaggc caaggctcat aagccatgag agtcaaacgc 2820
 gcgagtagac ataccatact tcgcaagggt agcaagggcc cgagaatgat ctcaaaagcg 2880
 gtgggtgggg acaaatcacg tgacagattt atcttcatcc aatcaaaagg acttaggttt 2940
 gtgggtaata tattacgtaa tacacttata gggccagagt ctgcttaat ggaacttttc 3000
 tgtgggattt cgttcacaaac ttcttgtctg tcgaaaccgg ggcaagcagc acgagtcgac 3060
 ccgaccactc ccaccgaatt gcgttgtgtc aacaactcgt ctgtcttcga ttattgaaag 3120
 ataggcccgga gtcgcaatta tggctgttgg aaagtacgac atttttaaac ccagattgcg 3180
 gccaccgtgc aaacatctga gcctattgct aatggacggc taggaacaag cgcttgctga 3240
 agggcaagaa gggatatcaag aagaggactg ttgatccctt caccaggaag gatgaatact 3300
 ctgtgaaggt aggcgcccac agggtaacca gatctggtac cttgctgact agaaataggc 3360
 tccctctacc ttgcggaacc gagagtgagt tgaataccga ctatcgtctt ggacaacttc 3420
 gttttttgag aggtggactg actgaaatgt gtgaagcgtc gggaaaaccc tggttaaccg 3480
 caccagtggg ttgaagaacg ccaatgattc attgaagggt cgtatctttg aagtctctct 3540
 cgcagatcta cagggcgatg aggaccatgc cttccgcaag gtcaagctcc gcgtcgacga 3600
 gatccaagga aagaactgtc tcaccaactt ccacggctctg gacttcacca ccgacaagct 3660
 gcgttctctt gtacgcaagt ggcagtcgct gatcgaggcc aacgtgaccg tgaagactac 3720
 cgatgattat ctctacgcc tttttgccat cgctttcacg aagagacgcc ccaaccagat 3780
 caagaagact acatacgctc gttcttccca gattcgtgcc atcaggaaga agatgaccga 3840
 gatcatgcag cgggaggcct ctgctgctc tcttgcccag ctgacgtcaa agctgatccc 3900
 ggaggttatc ggccgtgaga ttgaaaaggc cacgcagggg atctaccccc tccagcatgt 3960
 ggggtatttg tggaagattt gcggtattgt cactaatcaa tgtatcaggt ccacatccgc 4020
 aaggtaacgc tccttaaatc tccgaagttt gatctcgggt ccctgctcaa cctgcacggc 4080
 gagtcaacga ccgacgacaa gggccagaag gtggagaggg agttcaaaga gcaggttttg 4140
 gagagtgttt agagtccaat tgtcgcttag ccctataatt gtggctgact tcaaaatccg 4200
 actctaata gttgtctata ctgttgcggt gtgagataag caaaaaaacg ggatagtgtc 4260
 gtaaccgcca atgatacttt ctccaagtcc ttgactcgct gtcgtatgac tttctacct 4320
 ggaatgccct tgaggaagtg ctcaatttaa gtgtcagtaa agctcttcaa aggtgtagct 4380

agtctctagc catgagaacc ctctgaacaa tctttaatta aaaagtgcgc atgaccttga 4440
 ataccgaggc aatttgtagc atataaagct ggtgttatgt gtattgccag gagcgtccaa 4500
 ta 4502

<210> 2639
 <211> 2012
 <212> DNA
 <213> Aspergillus nidulans

<400> 2639

gtattcgggt gaccatttcg ttgaggcaga tctcgccggt gacttccaac ctacggcgat 60
 catcttcctc gacacctgag cggttgcggc ggaggacgat taggttacc tctgcatcac 120
 tctccagata tgtgtctggt ggcacggacg tcacgcctgt ggcccagact gtttggaagt 180
 gccggggccac ctcgaccagt ttatcaggtg caccgttttc tccttcgtgg tattccacaa 240
 cgcagacgct cttcatgaga tctgcaatgg ctatcacgtt gcgcgtgact gtaatgtcga 300
 caggcgctgt cgaagtcttg taactggcga gcctctgaag ttgcagtccg cccgatcttg 360
 gtaccacttg gaagactaca acctggaaac tggtcagctt atgcgggacc aatactataa 420
 gaaccagcgt accgtcttga caagcgcagc aacaatctta tctcccatca ctgccagggc 480
 gcggcatgct cctttcaccc tttcttgagc aaccttggcg agctttctac cgttgtctac 540
 ttgaaaaacg cggatatatc cgagagtaga gtctccatca tcctcgccca ggtatgcact 600
 tccaacaacg aaccgatcct ttgcctcccc gtctttgctt tccggagctt cagctcgaat 660
 tacacattcc acaatctctt ctcttcaag atcgaaagca tctaggcgtc tgaatagaat 720
 ttcgtctgcc agtacaaact gactcttgac aatctcttcc cactgacca acttgcgctc 780
 gattgtgccc atacaaaag ccttttccga gggagagtat gcgacgcgtc tcacagtagc 840
 tttgatcgga agagtctgga tctgtgtagt ccgttcctta tcgaccaggc cgatcttcag 900
 ctctgcgct gtagccaccg caattgactc tggataggct tccgagttga aatgacatat 960
 tcgtgatgct ccttctgaat tgacagccga atatatgatg cggccttcgg atccataaat 1020
 tagactagga ttttcacatg tggcgaagac attggagagg ccgttgcccc tgggtaactt 1080
 tttgaatgtt ggctgttctg agccaaggac aagcttgctc atgcccata gggaatggtc 1140
 ttggtcgtta tagtcatacg ttatgacgct tccatcagcc attgaaatga agagtgtggg 1200

tgcattctcc gccagtacac tggccacgag aactgagcgc gggaatgcct caccagcagg 1260
 acccagcgat gtcgagctga tgtgggacag atcctgcagc ttcagcactg agactttggc 1320
 caattgaggg aatccaacaa tacaacatc agtcggagtt gtcggtagtg taacgccaga 1380
 aatttggttg tccgcgccaa agtctttctc cgagacgact cgagcctctg actgaatatc 1440
 caacacagtc acatgtttgc cgcccgac aagtactatc gtgtcgtcgt tagcagaagc 1500
 cgctgtgatg attaatgat tttttggtgt ccattcaaag atagtcattc cgcattcaat 1560
 atctgcaata agaactctct gtcagtaac ctgcagtatc cgactgcccg gtagattcgc 1620
 ggcaagcaag gtgttctctg agaggcttag tcccaggaag ctttcgagtt cttctgcctc 1680
 cccgtcggga ctgaaacgaa aaactcgcgt ttcattcacg aatgtgacaa gaagtgtatc 1740
 caaaaagtca cctcttgacc cgacttgacg accccacagg tccgtaatat gttccatatc 1800
 gccaagaca cccaactcct tcaatccgac accactacgt acactcctaa gggttccatc 1860
 atcgaaagct ccagagccag tgacgattcg agcttgcccg atgaaattcg tgcatttggt 1920
 ttactgtac cgttccgagt ccattatcgt gaatctaaac cgcgcagtgt gataagtctg 1980
 ataacttaaa cgatgccacg atcgatacct gc 2012

<210> 2640
 <211> 1893
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2640

gccctccac ccacctatct tgtccccagg tatgggatac gcaggatatt ccgtacccca 60
 gcgectggcc gcctacgagg agatgtggcg cagagaagaa agtgagcttt ggcactggct 120
 ggaagacagg gtaggttttag atgggattgc agttccaaca gtgaaccgcc agtccgagac 180
 ccgcgcacct agtcgccggt ctcagggtga gcgggagctg aaagcctcgc taagcgaaga 240
 gacgctatca gaccgggaga tggatcacgc cattcgcagc acgcgggaga gactggatac 300
 gttggagcgg atattgcata aacgaaggtc gcaatccact aaggacaccg agtcttcccg 360
 cggggaactc tagcctgccc tcatgcacag aggccatctt ttcaccacat acattcaaac 420
 ggcataagct gcatgccaca tactctctc tatttttcaa tttcctttac tgtattttgt 480
 cagtccgtct gatggaactg atcttccaat cgtttttgtt tgttttgtct tttgtccaac 540

agcgatctgt gactatgcac aaatgttgag cgagatactt tccttatcta tttctaacaa 600
 gtgtcctatg acatacttgc tgttccccat ctgttggtat cctacgtttt caggattgcy 660
 gagttcctat tegtcttata taactagggc tccatgtata tatgtactct gcaaatacgg 720
 aagacggagg tcaatcagcc tctctggatt cttgcacgcc ttgaaagtga gagctgcccc 780
 aatacaccta gtttttcgac tacgtgattg ctaagtctct tatccatcct atattcttga 840
 gggatgaagc agtctcctcc ctttcattaa accgtggtag tttgtcctct tcagcaaaat 900
 atactttagt ccaaacaaga tcattggcca atctttaact tttcttagag aatagtgaag 960
 acatgtcttt gcgcgtgaga cagtacaatg cgaacacctc ctgcctacc tactgcgcgc 1020
 ccgttcccca gcagtcctat ttaatctgca ccaagccata agtcgcgaag gcagcgggtc 1080
 cgaggacgtg ctgagcatcg ccttccatga ccagggcgag tatagaacac ttctattatg 1140
 tccttagctc catcgtgagg ggctgcagtc tatgggcgaa ctttatgctg ggtgatcctg 1200
 taagtgggtg tggcagactg atgtgcctag gtgcccaagc acgggctctg gggctgagga 1260
 ttcggctgga ggatgttgac gagttgatgg cctactgatg gctgatgtct gcccgggtg 1320
 actcgtgga caggagaaaa catagaatac ctggataaaa ggtgggtggt gaggagattg 1380
 gaccctgcc taaccctcc aatcctgggc catctaaccg gtatttcccg gaggccccct 1440
 ttccgaatgc tttggcgcca catggcgtga ggataaattt taaactccta gtataagaag 1500
 tcctttgaag ggcaaaaacc aaaaacctgg cccaaggga taatggtttt taaccacaaa 1560
 attgcgtcct ttaataaacc ttttaatttc ccttatggcc ctattcccc ccctttgggg 1620
 taacccggg tctcgtcttg gtgcacctcc cccttggcg acattatctt atcctctttt 1680
 tgctggggtt attctaaatt gttctcaact ggcgtttcaa cccctcagtc ccattaatat 1740
 ctattctttt ttttatctaa cttatactca tcttccaagt tttttttgt tactctatct 1800
 tccaatatta ttttgttatg tcttttctt catattttat tacatctttt ttcttgttt 1860
 tttcatatt ctattctttt ttcttctcac cta 1893

<210> 2641
 <211> 2915
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2641

aacacccggc aactgcaaca tttggaactt agttactagt atgtatgata gagccttgta 60
 gccttttgcgt aggaagctag cgattgcata ggctcagatg aaaactgcgc tactgttgcc 120
 gccgaatatg gcatcagcct ggagcaattt catgattgat atgtcatttg ctcaatccat 180
 ataagagggtg tttaagggtg aaacagaaat cccgctgttt cggacgactg cgtgactggg 240
 ttctaaatgt cggcatcgca aagagatcat taggtatgcg taatgaatac tcaatgagca 300
 gggccaagtg gatggctgag cctgcgggtc atcttactag tggtaaaata cgttatatat 360
 ccgggctccg ctgtctctaa atgccgctgt ttccttgta cctttcctga ctctctatcg 420
 taattttaca tcatgccaga tcttgccgat ttgcctgctg aactcctaga cgagatcctc 480
 tttctgcct ttggcacaac cccaaggtac aacaatcgat atgatgaagg agtccttgat 540
 atcaaaggcc taagtcgtct ccttctcggt aaccgaaaac accaccaagc atttctgcca 600
 cgggtctact cccactggac ctacattggg acgctacaca gctatagtgg actctggaag 660
 tttctccgca ctataattga aaatccttca ctgcattaa ttgtcgaggt attaaacatt 720
 gggaattggg gtgtctgccc ttcatacctt gataggaacc acgagctcca ggaccaggat 780
 gagcaggtgc aatttgcaact caacgacaag gagaccgtga aaactgcgat tcggcgtgca 840
 ggattgcaag gagatattga atcccagatt tataatgcca tctttgctga cggctgtgaa 900
 tatcagagcc gctaccggcg gcctttgggtg gcacttctcc tgacctgcct cccttcata 960
 tcaaagggtat atgcgcataat cccaacatca gtcccattct tgggagctgt tttgagaaca 1020
 gcaatggcca gcaacaggcc gactctgggtg tacagtcgac ctgactaccc agcctggagg 1080
 aattcatgtt ctcaagtgaag tccctgggta tcatgatagg gaccccaacc cgttggatgg 1140
 ctatattgat gacccttcgc taaaactgga caatatatgg cccgtcttct atctcgaccg 1200
 tcttcatata gtccgtctgt atgatttcga cccagaagggt ttcagcagge tgggtccagca 1260
 gaaaatccag agtaataactt atggatacga gtgccatata gaacacctcc acatttccac 1320
 ataaaggaca tctaactgca gagatgaaga cgtgattgca ctgttgactc tcccagcagc 1380
 cctaaaaagt ctttcattcc cttgggacaa tgacaaggcc aaggccaagg aaaatgtctg 1440
 gcagaccttc aacaatgaat tttgggcggc tattttgaaa tataagagaa ccttgaata 1500
 tctggatgtc ttccatgact tccctccaga acgacgtaaa taccgactgg cagactatct 1560
 tggccctctt accgaattta cacaattgag ctatctctca tccctggctga gatgctcatt 1620

ggcggtata ctgaggtcag tagctccact tcggctaaag gaagcactgc tagctagtat 1680
 tgaatccctg gtctttgctg cggaggatgc tggaaggaca attactgacc ttccacgcca 1740
 ggtcgaggaa gtggtgtctg attttcctca cctgaagacc cttgagctta agatgggtggg 1800
 ctgtaagtgg ctgtcgacca ccaagacca cgccagtcaa atatcaggtg cccaaagaag 1860
 cgtgctttcg caataacact caattcagta tccaaggcat ctgcaccctc acaatcaatc 1920
 tgcaatactg tcctttgcct cagggtgctg ggtgcctcgg tcgatggaag gaagcatata 1980
 gcatgcgaat tgatgctggc ttcaggcagg agacaatgta tcaacgagct gcgcgcaagg 2040
 cagcagggcg gcaggagact tcacgcccg aaccacctca aaggcagtac cgtccgctca 2100
 agacacatgt gctccattt caggatcacg gcaaaagtcc atcgttcatg gtttctgaga 2160
 gcgaggaaca cagcttactt cccctctgg taaacattaa tatctacatt acccatcctg 2220
 atggcccctt acttcagatg gagctggaag atgatctcta agcaatgtac gccagattg 2280
 ccgccgaagg ttttgatgac aaccactggc gactcgatgt gtactttctg tcaaatgcga 2340
 caaatgaggg tcgctttgca cactatcaag ctgaaaaggc tgtccgtggg attctaaaga 2400
 catgctgat gaagcagaaa tcagactgga tacaggtctc ccaccaccga ccacccacg 2460
 actccctggg atgattgaaa tatacgatga tgactaccat cctgaccgca gctggaggga 2520
 cggcgcgtg cacatgtgtc atatctgcta cggaccaggt tttgaacttg gacagcctct 2580
 tgatgagagt tggatggca tcgaccctga tccggatcag tctttgagct atttgatctg 2640
 ggagcactct cgttgggatg gctggcaagg cactcttggg gtatatcagc gtgctacaga 2700
 tagagagtgg atcacttggg gaggtctctt tatcatgggt ctggtatcct tcaggctgtg 2760
 atgacactat ctgttctga agttggcccg attcacagta cctacctttc aagcaactta 2820
 aacacactcc aatggtgttt cttccctga tatagccatg tattgtttat gcttcttttg 2880
 tggctcttat tgcgctgcc gctggttcaa ccata 2915

<210> 2642
 <211> 1797
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2642

catatgtgtt tagtaaacac atattattat attaataaag agaaaacact tttaaataat 60

taaaaaaggg gtcaatttac accccttaat caaattttaat tatgaaaggg taaaatttgg 120
 aacagtatatt cctcaggcaa aaggggttgt taacacgggg taacacacca tgtaagggct 180
 ggcagtgtta ttatttcagg tttaaaacag gtcagggccc ctttccacat cgccgagtat 240
 tataagttaa cccctcgttt ttccaatggc tgcattttta gtataggcca gttccctagg 300
 gctccaccgt ttgctattaa gcagtaaggt ttttccgcaa ttaagccact ctgaatgaag 360
 gccgccagtc ccacaaggg agtttatitg catggggccg tgggctcggg tggcacacgg 420
 ccatcgagac ccaaccgtcc gactggactc gtaagctggg ctgctatgca gcggaagcct 480
 gagaccgttt ggcaagcttg ttagtacaag tattgtcctc tgattagtag agtacctcac 540
 cagttgaggt tactcgaagt catacctacc gaggcagtgc tacactggat gatctaggac 600
 actcttatct tttatcaatc gctctacttt accaagtaca acgccttcca ggagccgatg 660
 tcccgccat gattcttttt cgaaaggact ctcaaaactc tcacaggcac aaggtccaat 720
 gcatgcgtca catccgggta cagcccatc agagtggcac taataccggc acccctggcg 780
 ttaagatcgc aaggggaaga ctggtgacac actgcgcggg cagcaccoga tatctgaagc 840
 ccatctgcac tctgtagtca caaatgtgtt ttgccgtcgg ttgcttccat atctggcatc 900
 tgctgagccg agccgagcca acatatttta cgtatctagc ctcttagaat caccctgga 960
 ggataacagc cgattaggca ttttgtccac caataactat tgacaccttc aaatttttta 1020
 atcagtcctg ttcacctgcc tgagttttaa ccagctactc tgcgtaccaa acccgataaa 1080
 agtcaaccct tccgtaggat cgtcaattac cgggcgagcg ctctgtgcaag ccgtaggggc 1140
 catgacgtca tatatgtgag cacacgaatt agcgggagca ggggccattt tccatttagt 1200
 gaaccatgga ctgcgacggg cctcatttaa cacctgaact cgccacagct gagcaactcg 1260
 caacacactg gttgcggcag ttgtgggtctt aagattcaga cttggcttct tatctgcgtc 1320
 aaagctacca caacggagta cgggttcagg cacatgagaa gtaactgaga tagcccagat 1380
 gtctgtgtga ctacgtacga actcggtgac taagtgttcc aaagccctat tccgtttccc 1440
 atatgttccc ttagcgatat ggatggagac ctaatagtcc atgggtctcg caagtgggct 1500
 aaggttgact gtcatttgct ggcgactcct gtgtccacag cgtgtttcaa agcaccgctg 1560
 cactgggcag acatcagttc gatcctaatt accataagat tagagtgcac tacttgttta 1620
 tcggagcatt aaactacggg aatcgattac ttggtaggcc gatagactag tggggaatag 1680

gtaggtatat aatggctatt ccagctatgt tctgagatca cttacctgga aacagcaacg 1740
 tccgtgatga aatggtgcgc tgataagcct gttttatctt gaggttgcag tcaccat 1797

<210> 2643
 <211> 1270
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2643

agtgcttggt gtagtcggct ttcaagagac atctcttggt ccgggcatcg gagcttgaat 60
 tgtttggtt agctggaaag agtacggctt aaggcctgct atcaattgat atgtatgcaa 120
 taattgtcga cgggtgaggt cctcatgaac ggagaaaagg aagagcattt acccgagagg 180
 cggagattga aactcttgta atgacgctat acagaggcaa aaaggaagat acaagatcac 240
 aaaacttgaa ggtgtatata aatcgaaatg cgatccgaga tgcaaaaagaa gcgctgacac 300
 ccttgagtca ggcagtagtg tgccctcaggt aaagtgtca acaatgacac cggagaaaat 360
 tttgtttgaa cattattata caaggcttag agcaatctgt gaaagtggct atcccctagc 420
 ggctagagtc cggaatggc tgtgcagcta agctttctgc gacggccgca aaagaatacc 480
 aacctcttgg tatcaagtgc ttgtacaaac tgacaaccgc tctcagaagc gaccggggtt 540
 ggtctcgttg aatggagatt ggtgccatat ccctccatcc aggcagctcg gcgacttcag 600
 caacaggctc actatgaacc ccggcaaagg tccagatcac gactgccgcg tgatgtaagc 660
 ccgaaaagga aagaagattg tattttgcct tgtcgggtacc ggtgcgaaat ctttcttggc 720
 tcaggaggga ccaaacttga cacacgtggt tgatggcttc aactgccctt gttccttttg 780
 cccactcctg aagtgtttgt agcttctttg gttccagagg tttgttgtcc atgaggatgt 840
 acgcgccgca atgaagatca gcaagaggca cacatagcct caggatagag atgtacaaaa 900
 ggagtaagct gctcatcaca ctggtcctat cttggccgaa cgatttgtga gtgcgagttg 960
 atgtgaagct ttgctcccat ctctgtaggg tctgggtaat gcggcaacgg tcgtttcgaa 1020
 gatcattcat tcgacgatag gtacgaccaa gctggtcagt ctgtaacgat gctgagattg 1080
 aaagaccgtt cggggaggaa ggtagattct ctttctgggc gacagtatga tccgactggc 1140
 cgatgagcgc tgggaacatg cttcggtcgt ggctgaatct ccaaacatac tcttgaaggc 1200
 cgaaaatcag gagctcatat ccccttgggt tcatgttaag gagggcctcc ccgcggtcgc 1260

tcgcaactct

1270

<210> 2644
<211> 2091
<212> DNA
<213> *Aspergillus nidulans*

<400> 2644

tcacgctgaa ggaatgaagg gcagaaaggg cgtcgcgttg ccgaaactgt atggagaagg 60
cgctcggagg catgggatcg cagctctgaa ctgaaatagt ggcgtaattg acccgcccca 120
agtctcttgc gagacatcat ggctgcatgg ttgttacaag aaagacaagc tactggacct 180
cgaaatcccg ccgttgatat cacgtgatat gaaggtctat tcaagctgcg cgattaacga 240
ccccaaagta ggtgctctta acaaatatcg gcatcatttc cacgtggatc ataaattgtg 300
atgatagcaa taaagttaca tggcaagctc ccatcgaaaa aacaaccgga tacgccaggc 360
catgctcacg aaccacaactc gccaacgatt ctatcctccg tgccgtcgca taatctccag 420
ggatatctatc attgcgtttg tctcactttc gtcattgcg cgctccattc acagtctcgc 480
tgtagcctag tttccacccc gaccgcgggc acgcccacgg ccgcgccac cacgacctcc 540
ccggtcgccc cgtccaccat cgcgaggccc gcggttgca ttctgagact ggttttgctg 600
ctgttcctta accatatcga tgatttcttc tggaattcgc agatattga tctggaaaga 660
gcttcgtggt tagattagat gatattctgc ggcggcgcaa aacgtacgtt gttcccgcgg 720
acatagactt caggcagctt gaaaaaacgg tctccctcgg ggctcgtttg gacgacctct 780
ctgagtatta aattcatcca gttgtcacag ttggcaaggt ggccgttcag agtttcgccg 840
ttcttgagct cgacgagcat cgggtggcct tgagcggctg ttagaagacc tagggggagc 900
tatgcagcgc gcagttagtg aggtcctgca cgtacacaga gctggcactt cggattagtg 960
tttaccattc tgactgttga gtgcagagcg ttgtgggttg cgatgaggga agtagtaggt 1020
gtccgaaacg tggaatttcc gttgtgaggt tggaaattga gagaataaca atgtcaacgt 1080
ggttataata acaattggag gctcaaagca attccctcag ctacttcggt gagtctgaga 1140
tgtagcaagt gatgctgtga catcggcgga attgacggaa aatcagataa tcccttttcc 1200
gatgtatatc tggatgcagc atgagtaa atcgtcttttca aagttcgcaa aatttatcta 1260
ggctctccct gccaggacgc cgaccatgtt actcttaa acacgggtatct gttactgata 1320

ttttcttcta ccaagaagaa tagaaaagta cgaattaacg tttgtcttgt cgagctagaa 1380
 taacggcaaa tctcgatatt gttacataac agctcagatt tatttaagga gcttgggttcg 1440
 cgtgaatagc agcagtctgc taggttctaa gcctttggcc gctttgcagc cgcagactca 1500
 tcttcatcat cttcatctc cacggtgaat ttccgcttcg tacgctggtc tctattgttc 1560
 gatgtttcag cttcttcttg ctgggccctc aggcgctcct cgcgttcggt gaagaatccg 1620
 aaaagctgct cgtatccatc ctccacgttc gtgacagtat cctctagcgc tttgtgacgt 1680
 tcgctcatct ttagctggat cagcacgtct ctagagcgtt tgtagagacg ctgtttggta 1740
 agcatgcgcc accagtagta tcggcgatta ttccgatcgt cgtctctgta tttcttgacc 1800
 aggagccgtg ccatattggc gccgcccttt cgacgattct taagcggaat ctggccgagc 1860
 aggaacattt cctggatgtg cgcgaactga gtcggttcta tctttaggac agtgccgcatc 1920
 tcgttcaggg ttttgaacgg aaggaggtag gatgttgaa cacggcttag tcttctttat 1980
 taaatcactc cgtggatgga ccccatcttg gatataaaaa tcccccaact ccggggcgag 2040
 gatatggtag taagaagagt cccgaagcac aaggagggat tcattcggct c 2091

<210> 2645
 <211> 735
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2645

tgactcgctc atggctagat ttccgagcgt ctgacaatca cactggataa tgggtgcatc 60
 ccgactttgt ggatgatcgc gtctaaatgg ccagatgatt cgggtccgctt acgagccatc 120
 cgagaattgc tctcatgggg aagcacttgt aattctaatt tgggagcctc gttggccctg 180
 gaaagtctta gggcggtatt acagccaaac aattagatct tttcttctct ggctctcact 240
 gggcagtcct gtgatgaatt gagccgagca tggtgcaaac tggtcagcag tccgcgcagg 300
 gttttctaat agtcaaccgg ataaaggaac acacttcata aatcagcacg tgcttaagga 360
 ctgcctgctt atacttggtt catagttata cggctgcaag gactggcagt ctcgagccct 420
 agcttttcgc tcacctcgg tcgtccatgt ttcacaaagt agcctcaa at agggcagaag 480
 ggtgagcact tgactttccc ttatatatat tcacctcact gaatcccgcc ttctccagaa 540
 gagccacca ttgttgctgt gttcgctcgt gagaagacat aagctccatc aattgaaagt 600

caacaatggc cgcaatggt aatacatcgg gaccgtcgtg accgtcagaa acgtataatc 660
 gtgaataata agcaccgagt cttctgccat ggcatcgca atgcgagaaa gagcatcaat 720
 gcttgcttgt ctggc 735

<210> 2646
 <211> 1979
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2646

taagcccgcc ggtggtgttc ctgcctctcg tcttcactac cgctgttgtc tcctttttct 60
 tcattctcgc catctaagac ttccggaggg cttttttaat cttcgggggtg ttttcgaatt 120
 ctcaacctct tcttctcat tctccccatt ctccccattc tcttcgggt cctgcttcat 180
 cttcccttct ttctctttct tctatctac ctgacccct ttcttatact taccctcggt 240
 cctgtctcct ttcttctctc cttccctgct tacctctccc ctcttctctc tgcctctcc 300
 agtattcgct acaaactgct ttctgcctt tgaccttcc agctttttct gttccgtcgc 360
 ctttttctcc ctttcatcta gctcttccca cgccttcttc ggcaaatacc tcttccgct 420
 cccgtcatcc tgcttcgctg tgccagagcc ctctttcggt tgccattctt cgttgggtcca 480
 tttatcgaga tgtttctgct cagacttctt ctgccttttg gaggtcgtgt agtccccgcc 540
 gcggtgcttg tattcagagg cggtcatttg ggcctgtcaa ctacgattaa attggaataa 600
 gaaaagaaag tttgaaatgc gtaacaaagt acctttcgcg cagaccattg acctgggttc 660
 ccgcctttgt ctcttgctg gacttcattc ttgacctgtt cgcggagctc agggctctgtg 720
 taattttttg cgttctgggg catttttagat togttcaatt gattattgcy caccgggaat 780
 gatcttgaac tgtgtgctac atcggactga aattcatgct cctatttctg tcatcatgac 840
 gatctaccag atcgattgat ctaccctca aatgacatca cgagtctga accggtactc 900
 cggaacactt aacctctatc acagccctaa ctcaactaaa atttactgct gtaggtagct 960
 agacccttct caatagatcc tgaatcatac ctccaattct ctctgagacc actgaccccc 1020
 gcggaatatc atgcccgcct tcatgatcaa actccacct gtcagcacia aactccgcta 1080
 actggatccc tgctggccac cgtggatcct taccgtcgta aacatgcact gtcgggatat 1140

ctanttttgc ccaagaaggg aaagatgtga aatcaagccc gaagaggtca ttactggtgg 1200
gcctgacaga tggatcgtga acgagagtgt tggaggtaac gttgttatcc cagagtcccg 1260
cgccacgctt tataagcgat gtgttggatg caaaggctga gagtttcgtt gcggtggtgt 1320
tgagaagttg gcctgtgatt ttgcttatag tctctgcctc ttcggaaca ggtatgccc 1380
tatcttgaag cgcgtaaagg gggataccgc cgcaaatgaa aatcgctgct ttaaattggca 1440
ggtctccgcg tataaccattt tgcccctgct cgctcaatct gtcataagag tgatacaatg 1500
ccattgatgc gatcaatgaa catccctgcg agaaccat gactgcatcg tacggcccat 1560
gcttctggat atattcagcc acatatctgt gtgcagcgcg taaaccagca ggcgttggtt 1620
cccgaacca ggtgtaggtt ggcgagtcgg ggtaaatggc tttaatccct ggcgccggag 1680
aggaggggaa ggggccggag atgaagtcga aaacgtacga gtgggggagg gttctccgga 1740
aggatgctgt gcgatgagga ggattagtgc tgtataggag aattattatg aactgtgctc 1800
gactaaaggg gttgcagtag atggaagagg cgaaaggag gtaccagtct gagacttgaa 1860
tatgtgggca ctcgtgccgt gccgtgtag gcagagaatt tttggcattg ttccctccct 1920
ccggttaactt tagttgcggg agaagaccac tagggatccc tttagtaggg ttaattgcg 1979

<210> 2647
<211> 2756
<212> DNA
<213> Aspergillus nidulans
<223> unsure at all n locations
<400> 2647

tctgaaatcg attcaactaa accactttcc gaaccttgta ctatgcttta tgtgctcgcg 60
tatgctccca gcgcagactg tccgcctgtg tggataaaca agacattaac ctgttcccca 120
tcttgacccc tataagtagc gggactagct agtaaattct tctctatctc cccttcggca 180
accaatgca tcatacccct cgccactttc gccgtataca caggatcaag tatgacttct 240
tccttttctg ccactcagaga gagcatgtca ttgggtcttg catctagcac accatatctc 300
tctcccgca accggtcac caggactaca tcgtccattg taatatcagt ctggggattc 360
aatccgatca atttccccgc gcctcgcgca aagcgcaaga tgcgttcttc atgatatctc 420
tttcgcatcg tcggggagggt aagaatccct ataacacggc gctttcttct tctcgtgtt 480
tgctcgtgcg gttgtgagtt ctccatcttc tcgagtagtt tgaagcccgc aatcagtcg 540

ccgactgtac tcccactccc acatgcgacg aagatgtaat cgaaacgcgg ctgtttgata 600
 ccgtaaccac cactaccacg atcattcggt gatcccagaa tgtccttctc ctgcgccgca 660
 atttcaaacg cacaccttgc atatcccaac cccncacgcg gatgcaggct cgcaccagac 720
 gggatccaat agggaaacctt tccctctgct ctgagattat tcagaacctc ctcgacaata 780
 tcatcttggtg tctttggggc cacaggcttc tcaaaccatcc tcaacttctgc accaagcaac 840
 ttcacaatct ggacatttcc cgttctcaaa aaagctgctt tgtccttcgc actggctaag 900
 ccgccccccg tgcccttggtg caggaggacc acagattcta ggctatcct cgaagccacg 960
 gaggccacct ggaccgtgtg gttactctgg attgcgccct ctgtgacgag agttgtaact 1020
 tttcctttcc cgtgtattgg tgtgggtaca tcagccgcaa tgccagcgcc atatcttgga 1080
 ctggaagata ggatatctgg cacgatgtac tccaattttc ggtacttggt ccccgccacat 1140
 gcgagcgggg aagaatggtc ctgcgccttg gcgtagaggg agacgtggat gccctctgtg 1200
 cgtgccctt gagaccgagt gctgcctggt gctgagtgtg ttgttgatgc tgaggctgag 1260
 gctgaggctg gggccggggc agaagctaaa ccagacaggc tttgcagggg gtggattggc 1320
 gaagagaacg ggtagagcag gcttaccctg ggaattgtgg cgaagggatc aggcagatta 1380
 agtctgggtg acatctcgcg tttgcttgct tctatgtata tctgcgaagt tttactacct 1440
 tatttactga ctagataggt acaagtccat ctgtagtgtg cgtagtcac tatactccat 1500
 ttcaaaggac gaagtatatt ggagacggct aaatttctct ttcactctgag gcaatcaact 1560
 tactcaaaag aggccaggcg tggtagggct aagtgccaga tatcatcccg aggtatcaat 1620
 agtgggggtga attcgaaggc ctgttggttg agcgggctcg ctccttcccc tttcggtaac 1680
 gagcatagta ccatagggcg gtctggaatg cggtagggctc acagggcca ttttgacaga 1740
 tctatttcca cctacttga tcccatcatg atatgtgcct gttcccgatg gcaatctggc 1800
 gacttgaacc tctgattgat gtatatgatt acagctgcag cactagatac ctgacttgac 1860
 tgtccagaaa atcgacatga agagagtaac tactcgaaca agacgcgcaa tgaaaagagc 1920
 aggaaagtga caagctcgag tctatcgcta taacatagcc agagggatct agtttagcaa 1980
 gtatgcgagg gcccaaatat caatgaggtt ggcttcagac gatcaagaga taagagaaca 2040
 ctgagtttga aaacaccgct tcgcaatgag taaaatttcc aacaactccg gccatgtaga 2100
 tggtagtagt agaaagtacc cagataccta aatgtccagt cccaccggc gagatgcaat 2160

gcaaccatga tgcgatagat gaagtagtta gagaagtaga agtccccag cgtaaactga 2220
 gttctcgttt atgatgtaat gcaatgtggg gatgcaaaag caaagtccag ggccaatgca 2280
 aagatattag aaacattccc attcacaaaa gacacaccac cgcgcgacac ggtccgccag 2340
 gactagtcct ctccagggac cccgctcacc gatcttgatg accgtttccc agacgctacc 2400
 gtccgcggta cattcgcttg gcgagtcgga ggtctttggg ctgctgatca tgtgggtccgc 2460
 tttgctgggtg aggcgtagaa tcttgccaga ggggtgattgt attgctgagct tggcaggctt 2520
 ttcccgacct gaattcgagc gggtagagga gatggccgag gtggaggccg agaactcggt 2580
 ggatactgtt gaaacggttg acccccctgc agagctcgaa accatgctga gcgcactcgc 2640
 aggtcgggag aagactgacg gagagatgcg cccgctgaag ctattttcat tgctagatgt 2700
 ttgaggtgtg ggcgatgagg gatgttggcg gacggcgaat acgaatgtgt tgttga 2756

<210> 2648
 <211> 2180
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2648

cgatggccag caccgtcctc gacgaaacca ttttcgacga tatggagacc ctcaagtccg 60
 gcgaagggag gttcttctcc atattcttca gccttgatcg tcttggcttt tccgataatg 120
 ttgccgcggc tgtcccagaa ctggcccttg tcgtcaagct tgctgccgag tctggaaagc 180
 ttcttggggg cgcttccac caactcacca acgggcttgc cggatgagtc aataatcttg 240
 ccagctttat tacaggacag gccttcgagg gaagacagag gtgatagggc gttctcagct 300
 tcctcggacg tctcttttagc accttcagct tcctctttcg ccgtctcctc agcgtcgtca 360
 ctcatctctg cggtttcatt ctggtgggtc tctgtagtct tttcgggtgt ttccgttttt 420
 gcatcttccg gaatctcgtc cttcgccctt tccatagtct cttcacctc gtcagtgaga 480
 tccgcctggc cgactgtctc tccatcatca ttcacaatct tgcccccttc tttcacagtt 540
 ccgccaacag ctctctctcc accctcgaca accttaccga caacaccacc ctcggggccg 600
 gggatctccc ctcttctctg aacagggaga tccttcagca tattaagcgg ttttgaagca 660
 atacttggga cacttttgac cgtctgggta acctggtgtc caaggccacc ggcgagcgat 720
 cctagtttcc caaacacgcc acttccactg ctaccgcccg ggccagatgc ctgtgaccca 780

tcgtcacgtt gctctagctc gggttctttc tgctgggacg tgggggctctg ggggtgtaggc 840
 tccgctgcc aatgttcattc tcttgcccct tctcctgtac gaggggctcg ggatcctgct 900
 gccgaaggctc attgttgacc tccttaggtt agaagacggg atcttgctct tggtttgggg 960
 cagcgctaga gccgatcaac ttgcgctcgg aggggctatt ggatctttga tctgacttgg 1020
 caagggggga ccacattctg taaagtttat cgagaatatg ctcgataaat tccaggatac 1080
 aggtaggggt cagtataaat tgctcagcgt tgtcaatgta gggtaggtga taatggggta 1140
 tcaagtttta gtcaatataa tagagggaag gttatgtttt tctttttgtt aaagcagaaa 1200
 cgacgggtct tatataccac gtctatacaa aaaccagtac atcagattca aaacccccaa 1260
 gttgtatctt atgtcacaaac gacatcacat aacatccagc tagttgatga gagctaaggc 1320
 tgctcgtaga cccatcagct ttagatctgg gacatccttg caagccacag acaccaggct 1380
 gcagctgcat ggtggcatgg tgcactgcgg gtggagtaag ccgatcgctt gccggtacga 1440
 taaagtaaag caccgacggg ccacctctca ggaaggaatg gagatagtag ccgagacctg 1500
 gaccagccgt tgtacagttc aatccacggg ttaagtgcga ggtacgtagg catacccaaa 1560
 atcggtagca ttgtccgtgg accatcttct aaacttgtaa atgatgtaca taaaccgtgg 1620
 atcgagggac aagtctgtat atattgcgtc aatgtgcagg ggttctggaa tatataatac 1680
 gacattatat taatctacga aatgctccgc aataatctat atcggccaag cccacggggc 1740
 agccactgca gtcggtagaa aagtgtactc cacagtacat tgcattagtt tcgtcaaaat 1800
 cactcagaat ccatgaaatg ggtactctga agtccgtatg ggtccatatg ggtccatttt 1860
 tcgatcgata tacataatct gacagactgg agtacagtag tggcactgag accataacgg 1920
 ctttccccac tcccacgatt agtgacatat tagccgtcca gtaccacaga aaagttgggg 1980
 gcagtgcgtt ttacaccttt ctaatctatg taccacaaca tgactggaca aggactgtgg 2040
 acttgtcact catcgactaa aatgagatca tcccggcact gcacgtcca aattaagata 2100
 cagctgataa caaggtagag gctagcttga agtttgtagt atgtgctttg cggaagggtta 2160
 ggacgtgtgc attagatagt 2180

<210> 2649
 <211> 1098
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2649

acaaactcaa tggcatctca agccggtctt cgctgctcgc tgcaatgcc aagccagtctt 60
caaagacaac tatgatgcgt ttgtcgtcaa gctgtctaag ctgtacgata ttgttcgaac 120
taaaggaaat cccatcaagt gggattccgc agctggcggc tcgcagcaga actttgtccg 180
ccaaacaact aaatactggg ttcacccgga taacatcaca gagctgaagt tgatcactct 240
gaaggatatgt tgcagtcttt gctcgtgtaa agcctcatgc tcagacgaca tagcatcttc 300
ccgtcctggt cttcaacccg agcaaagagt ttgaggaaga ggactcggcg atctcgtcca 360
tttatcttga taaccccgaa acctgggagc tgtatcaagg acgcctcaag aaaacgggaag 420
gagcagaagc tatccgactt agatggtacg gcggcatgaa cagtgatcaa atcttcgttg 480
aacggaaaac tcaccgtgag gactggactg gcgaaaaatc ggtaaaagca cgcttctcca 540
tgaaggagaa gaacgtgaac gactttctag ctggtaaact gacggtggaa aaaatattcg 600
agaagatgcg gaaggagaag aagaagagcg aggctgagat agctgattac gaacaattgg 660
ctcgtgagat ccagtatcgg gtaattacgc gcaagttggt gccggtcacc aggacgttct 720
atcatcgaa cgcgtttcag cttccgggag acgctagagt ccgcatctcg cttgacacag 780
agctgaccat gatacgagag gataatctag atggccgctc gagagccggc aacaactggc 840
gtaggatgga tgttgagatt gactggccat tttcccagtt gcccgccgag gatgttgagc 900
gatttcata cgcggttttg gaggtgaagc tccagacgca agctggccag gagccaccaa 960
agtggattcg tgatctaaca gcgagccatt tgggtggaggc ggtgccaaaa tacagcaa 1020
tcattcatgg gactgcaacc ctgttccttg atcgtatcca tctgctgcca ttctggatgc 1080
cgcaaatgga tgttgata 1098

<210> 2650

<211> 1098

<212> DNA

<213> *Aspergillus nidulans*

<400> 2650

cgctcatggg gattcctcct atgcatttac agagtactgg gtccaagcgc acatcgagct 60
cttgccgag cacaaggggc ggacgtggcc gaccggcaca cggccatcgc gccgtttccg 120
ctgcgaaacg tccacctggg cccggccatc accgagttca atatgcgcga gttcaaaaga 180

caccatacga cgtgggcata ccggtctgtc cccggtacca ccaagatcag tttcgggcag 240
aagacgagac agctgttcgc ctctgtccaaa gtcccaaaaa tcggcctccg catcagactc 300
tcgctgcccc atacattgca agtcggcaac gagcagacca tcccaaccac tctacatatc 360
gacctgacc tggactcaac gagcctcgcc attcacggta tccaacaaga gatcctcatc 420
acagcgggtcc ggggtcaaagt caagccgacg acgaccgtgc aggccgagcg gcacgacttc 480
tccaaatcca ccgagagcgt gagtctcggt ccgccgggca acggcaaccg gccactgctc 540
atggtagtga ctctgggcgg aaaggccagc gaaccgcttg ccctgggcga gatcctgggg 600
atcaggctgc cggcaggctg cctgtatcca aatctgatca cgtacaatat cgtccgctcg 660
catgaactga aatgggaatt ggacggcgag atcgccggga gtgcattcaa gctgggggtcc 720
tggcaccag tgagggtctt acctgagcca gacgtggagg gccctccacg gtacgcccct 780
tgaccgggcc ccggtcgca tagcgggct aaactcaatg ccagagcag taattgtagt 840
ggcaacggca gtcatcctgg ttactccgac aaggaggagg cgcttccgag ttacggcgag 900
ttggctggcc agacacgagc gttagtaaca tgtgttagtg acggtgtgga agacaacgag 960
gacgatccg atccggagta acggagaaaa cctccgcctt cgttgatgcc tgggtatcca 1020
ggcataaact caggcatcag ctcatcgac ggctctgtcg acgcattcac gatatttcga 1080
ctgaatggag accagaaa 1098

<210> 2651
<211> 1285
<212> DNA
<213> *Aspergillus nidulans*

<400> 2651
tgcaacctag agaaggatcc atcaactaat gcgaacctgc cagactcaat cgtatcaggc 60
gagcgggtgtt tggataacaa acttcagcat ggacttgacg atgcgaggcc gagccaaatc 120
tggaagttat caatgtggaa tccaccgctc cagccgcctt gcactttaca ggtggatcct 180
ggctatggcg ccatgcgctg ctagagattg gacagcctga tagcctgaca gggattgccc 240
tcctacgtcc caccaaagcg acgccggtac aacgctaata gagactagct gactcgacga 300
cattggccca tagtggcact gatcccggta gttagggtct ccagcttcaa gccgtaaaag 360
ccatagccgg taaaccgaa tattgtatcc aaaaagccat cggctctcca tgtggcactg 420

gaaactcctc aagccgtagt tcagcgtttc agacaacttt caagatgcgt ctgcgcgggg 480
 tctctttctc tttggcgctt cttcaccttg cctccggtgt tccccatggg agccgtacaa 540
 cgtgcagtaa tccccctgtg cgcaaagaat ggtaaacctg tgttatagct tctgcgtctg 600
 gcagtgctaa cacatccata ggagacaact gagtgccgaa gagaaggcag agtacattgc 660
 ggccgtccaa tgcttgacta ctctggatcc caagtctggt ctcgatggta ccgccaatcg 720
 ttttgatgat ttccaagctg ttcactcaaa tcaaacccca agtattcact gggtggttaag 780
 gcccctgcag gattatttta ctttttcttg ccaagcacgc tgatcactgt tcactctcag 840
 ggccactttg ccctctggca tcgatacttt gtcgcttctt acgagaagtc actgcgtgag 900
 gaatgtggat ataccggtgc ccagccgtga gtccccggtt gctttggagt cagacgtaga 960
 aacgttggct gactgtgata ttccctaggt actggaattg gtcgcttgat gcctcgacta 1020
 acctctctc aaccgctatc ttcgagacgg agatctttga tccagatacc ggattcggcg 1080
 gaaatggagc gtgggttgag atcaccgatc cagcagacaa ccccttcaac ctactggcc 1140
 gtaccgcgcg tggtgcgctc aagactggcc cttcacgcc agacaagttc cagcttcacc 1200
 acagtggcgg cggtgctca agcgcgactt catccctgg atcatgaaca gcttcgcagc 1260
 acagagcctc gtcgactggg tgcag 1285

<210> 2652
 <211> 4075
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2652
 ttcttgctg aatgcaacct tcaccagaga tagtccacga agcggaagcc ttgatatctg 60
 actggagact ctcgatacac accgtcacgc attcgaaaaa cactaccaag acgcagaatc 120
 cttcgatatg gtcgcggtcg atagagcatt ccgatatgcg ggcttgctgc atcttcacg 180
 tcgggttcta ggcaattctt ccggctctga tgcggtgtca gaggctttgg atggcctaata 240
 gcaatcagtg gccgcgattc ggtcgggctc ggctgtcgaa gcaggcgtac tgtttcccat 300
 ctttacggcg ggatgtgaga cccaggactc tgagcgcaga actgagatca aagaacgctt 360
 agaggtttta gagggaaactg gaatgaagca ggtaagtcac agagctctta cactgctacc 420
 tcttgctaata ttggttctaa gatacacaat gcccgtaac tgatgcagag gtgctgggat 480

accaagttgc cttggatcgc tttcgctcag ggagagttcc ttgggtagtt tgtcaaattg 540
 ccgtgtagtt atggctcaaa cgggatatct ggagacaatg ggagattgaa tttacctact 600
 ggtagtgta aattatTTTT tgccagtgtg tgacaagatc aataaagctg gtatgcattt 660
 gcagtgatta aaaaacatct ttccagagta cataatatcc ttagacttat ccaccgtata 720
 tgtctcttac atttgattgg tcaccttttag ttaacctggc ctttgtgttg cctcttcttt 780
 gatcttccaa acttagctct gcgatgggtc tgcagcaatt cacacttata ttcaccaatc 840
 aacatatttt cagaccctta aactacttcg ctctcttttt cgctttctct tctccctatc 900
 tctttctatc tctctctaaa taccttatct tttgctgctg caggctgcgg cacctggctg 960
 actccatcat ggccgagggc tccctccagc actttcccaa tggggaagtc tgtaatgtct 1020
 cagtccttca cggagattac aacgtctacg ctgtcttctt cttctccctc ctactccat 1080
 ttcttctgtg gctctgcgct ttttcaatat ttatccacac tcatattcta tccctcaatt 1140
 ccccttcacc ttctagacaa caacatcgtg actgtcttcg tcgcgctaaa ggaaagtcag 1200
 acaaggacga aatgacacac aaccctctgg ctactctgc agacctctc gatggtggac 1260
 tagaagacat tcagattaaa tctctatcgc acctctatca gaatgtcgtg cagaatgaga 1320
 accaccctat gctggttagt tctctggagg ccccgatgga cgggcttgcg gataacctga 1380
 agatttctgc cttggatccc aagggtgcgtt ctcttgaca aaaaaactta taactctgtt 1440
 caatatacac tgataatgtg atgctctcat ttcagcgtac ctgcctatc tttccacagt 1500
 gccaccctcc acccgcacca cctcaagga aaaaggcgaa aactgaacct atcaaacctg 1560
 tcgagtggta tggggaaata tcttggcttc tgaaaggaa cagtgtcttt gacgacgcag 1620
 aacaagagct ggacgctttt atgaatcgca tcaacatgct tgactaccgc aagccctaca 1680
 acgaactttg ggttttccag tatggtcttc gctacatccc ctccgtttcc gacaaaaatg 1740
 tgtaccgcac cattcgtata gatgaaatac ctttggataa aactcccagt cagattctcc 1800
 ctttcattgt aggtgaggtc tacagcgctc gcctggcgga tacataccgc atcaccggct 1860
 acaacaccgc aatgattacc ttcgtcaccg aagaagacgc tgccaacttc ctagctggat 1920
 ttgccaacag aacctacgcc ctacctttg gcagggttat tctgttcac acaccgacct 1980
 accccatccc cgccgataca gagaaattga tcattgaaca gggttgtacc cgcaccttag 2040
 gcattttcca ttgcagaccg aactcaaga gggagatcac ccgtgccatg accagccctt 2100

tccagaatta cattctacag ctggaaaata ttgttgatgg cccagggatt ggcgaagtct 2160
 cggatgaagat gctttcggtc aaggcagcag cagtagtggt tgactgcctg aggaaccacc 2220
 caaccctcag caaatgccag ttccgattct tgaacaaga tggcacgcct tccgagggta 2280
 ctgcaatcgt atcgatgat ggatatcaga ctgcgcgtg gtagattgat gactctggga 2340
 gacttcgacg gttttcattc attctcccc gcttacattg tcattctttc ttctctgcag 2400
 cgggtatctt actcaaagc atatattgca attctatcct caggtaatga cctgctaata 2460
 acaagtttgg gtgtcgatac gtggatccag ttgccacgtt tgaagaactt aacgattaat 2520
 gctacccttg aagttgggtc acaataact actctacgac aaaaacatgt tactgcacct 2580
 tgatatccag tgaagtagat aattggcaaa tgggatgaca tctcagagat aaccagactc 2640
 catcatcatt ccacaagaaa gtcataaggc agctgataaa taattcgttg ttcagctata 2700
 ctttttggtc agaaaatgcg acccttcacc tgggtgatgt tcttgacatt tacatctttc 2760
 cacagcagca ctgacactag agtgacagaa tacaacaag tcgcggtaat tagcatcagc 2820
 cgctgtgtct ggctatacga caagttgata gcatcgcgtc cgggagtcct aacagcgtac 2880
 ccatactgag ccgtgatatc accatagatc gttgcaagat tgggtagggc atcggcagga 2940
 agattctcct ttaacttagc ggggaagatt ccagtccaca tagctgcagc aattgaagaa 3000
 cccacagcgg aaccaatgta gatgaacatg ctctcagctg cgagaattgc ggggatatcc 3060
 tgctgtcgtg agacggccat gacagtcatt tgctcgcaa tgaccaaggt gccgccaccg 3120
 aaggcaataa agatatggca catgacgatg tagccaatat tggcgccggc gtggcgga 3180
 tggatcatga gtgcgacacc gaggatggtg atggggacgc cgaagtatag ggcttgccat 3240
 ttcaggcggc cgttatagcg aataactacc cccatgacga tagaccagaa ggaggagccg 3300
 acggtgtaga tgttgctgat gtaggaggcc ttggtgacgt cttgattata gacaaccagg 3360
 agcatggaat agaaatagtt gtcccagatg taccaagcga tgtagatgct tgcagccatg 3420
 gtgtaggtga agatgacggt gcggttttta agcaactccc atggaataaa ggttatgggg 3480
 gcaagatacc tttcgtagag aataaagctg atgatgagaa gtccaccaa gactaggaag 3540
 cagattatga gtggagagcg ccattcgtct gcttgcttag tgtatagggt gaaggcgagg 3600
 aggaagagcg ccattccaag cgcaagatg aagatgccga tgaggtcgaa ctctctcacg 3660
 tagtgacga tagactgaag ggttggtgagg ttggattcaa tcatggggag gaggcccatc 3720

ttctcagctt tgcgttggtt gtaatagaag aggaagaaca gtggtgccga aaccaccggg 3780
atgacaatgg cccaaatacc aaatccccag cgaaaaccta tcgtgccgag ggcgctctgt 3840
gccgccggac cataggccca gacggtagca atgtaggag aagcaacgaa tgcaatccag 3900
aacgctcggg tcttttagctt tgaagtatcc gcgatgaaaa tggtcattgt gaagtcaagg 3960
cctgtgtacc caacctggta gaagacctga gcggcgagc acgtcttcac gttgttgag 4020
cccgccatca tgatcaagcc aatgggtcatg ctaccaacca tcagagcaaa acctt 4075

<210> 2653
<211> 2255
<212> DNA
<213> Aspergillus nidulans
<223> unsure at all n locations
<400> 2653

cagatcacat tagggttatc ctaggcaaa tgttgatctc tcggtctgag agtatgagaa 60
aatcttctat gatagagtag gagctgaaac gccctcgaaa tacatccaat ccagccgcat 120
gtttcaacct cggcacttct ttctttgaac atcctagatc tcttgatatt gcaactgagg 180
tttatgaatt cagattgata acaccagaag agtttccttg gtttaataagc tctgtatacg 240
ggagaccttc ccttcagat tttcatgtga tgaaaataga tctcatgcat gttattgtgg 300
aatctttctt ttttgagtc tcgggagggt ggagaaaaag ggcccgctta tcctttcctg 360
gaggagacgc agttgacgaa cagccacgga gtgggggtcat aattacttga caagttgca 420
gactggaata tatcaatcta gccgaatta tctgataggc agaaaccgtc agtcttagcg 480
ttcaaccgaa gctctgatag gcaaccggcc aaatgggtggc tcagcgatag gcggccca 540
ctgcacgcca gacacggata cggagaagga ctgcgcatag agctcgtaaa ataaccaaaa 600
cccgtaagc ggccaatttc tgacgggcca agactcaagg ctcgatttc aggtcagaaa 660
agcaggaggt atcgtccgac ttcgagacag cgattgatgc ttatgctgtg tctctgcctg 720
acaattggac tggngatgca accagtggat gctacattaa cttggggcag tgtggcgag 780
gctcagcccc aagctcgccc agacgatcca gaagtctagt acaagggtcg ccttccatag 840
gaccacacag gaccgtagtg caccacgcgt cccctgaac gattgcgccc ccgtaagtca 900
gtcgtcgcac catgggcccgt tgttgctcgg ttattgcttt cgccgccac aaccaacggc 960

agtgcctcag atttccctct tgagtgcctc aaccaccctt tttgatgtcc ccaagacgtc 1020
 gttcgcctct tctttttaac cttctttcaa ttaacctaaa aaataaacgg ctccaatcct 1080
 tccctattat ttactctcat tttcccgcct ttttctctct tcaggccctt ccttccccaa 1140
 ctgctacgtt actacaagaa gatcccttcc ccaatcatcc tctatttttc tcgtccttcc 1200
 ttccattcaa gtaattcctc ggggtgcgcc taattaatcc cgtgtcggag tatcagctct 1260
 gctatattac cattttctcg tccctcaagc taatgagctt gagttttcca ctcccttcaa 1320
 gctaatttac tcgaggaaac acggtcaggc ggaactcaaa tcgttggcgg cggaactcct 1380
 tcccgcgcac aactgcattt tcccctggct atcctcgaca attgctcttc gacttcgtcc 1440
 ccgtagtcga gtacgggttc tactacgcgc cccagtgttc tgggtgtttgt gagaaacggt 1500
 cgtcggtgaa actggtcgtc ctctacctc ccgtcgtctc tcgccgaggc agctttcgtc 1560
 ctgcagcagc catttgactc gagaacttcc cattgtcacg aattacacga attgaatccg 1620
 cattattgtt gttcgcctagc atcaacggcc tatttacata atcttgctga aaaggaggtg 1680
 ttgaccttcc atactattca tcatgcggcg cggctctttg gtctttctag tcgtcaacct 1740
 cctcatcggt acgttccctc ttgcgcgcgt atctacactc ctgtcattgt tgctggagga 1800
 tgcttcggcc gatgcaattc accgcgcgga gcttccgtcg ccgaactcga gtttgattga 1860
 acagcgaccc cagaagattc ccaagattat ccaccaaa tacaagaatg agtctattcc 1920
 tgaagtctgg caggaagccc agcaaagttg catcgacttg caccagatt acgagtacat 1980
 tgtacgtttt ccctatggtt ttgtgaaaga gcgatgctaa taaccgcagc tttggacaaa 2040
 tgagaaatct cgcgacttca ttgcagccga ataccctgg ttccctcgaca cctttgataa 2100
 ctacaagtat ccatttcagc gtgcggattc gatccgtac ttcgtttttag ctactacgg 2160
 tggcacctat attgatcttg atgatgtgag aattgcttat ccattgaaaa cgacgaacaa 2220
 attgctaaat tgacaagggt tgcaaccgcc gctta 2255

<210> 2654
 <211> 2176
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2654

accctttgac atcctcgacc ccaattccca atttagaata ctccacttca cagctcacia 60

ccccgctcga aacttcagga agtccgctga gagggctaag cctgatctga agtttcgtag 120
taatgttggc agctgcgcaa ccaaaacttt ccttagtttg tcgacagatg cggtgagatt 180
ttccgtcttc actccgagaa caggtacatc aactacgtct tcgccggtcg gaacctgttg 240
gtagaagctg aactcgaaat cttccagggt cttcattgtg agctgcttct ctgacccaac 300
ttgggaagag ggagtaaaca gcttttgctg cttttccctg gattcggagg accatttgag 360
gacgacaggg tagccggacg attcgatagc gcgaatttct ttaacacgga agcttggggt 420
gagaccagct cctttgaaag tagcgccaaa aacggcagcc tcatcggcgt tgacgtttgt 480
tcgtattttc tccgacctc cgcaaatct ttctagtctc ttctgaacaa atgggggtacg 540
aattgaacca ccatgtagaa tgactgaatc aatgtcgttc aattgtaacc cagcagctgc 600
caaggcctcc tcaagtggct tcccaacacg agcgatatgc tgctctgcca gtgactcgaa 660
cttagaacgg gtcacgcggg acttgaaatt aacatcttcg tcgaagagac cttcaaaaga 720
agcgccagtt tcggtgttgg cgctgaggac ctggcggact ttttcgcat cttccacaa 780
tcttgccata gtcttccgt gagagcgcaa atctgcgaga ctaacacggc ccttgagttt 840
tttgtcatca aggagttgag aaagcatatc accaacgatt aggtcgttca gagagtcgcc 900
gccaaagagtc ctgtccgacc ctgctcccag gacctggacc tctggatgg tttgttgaa 960
ctttccaatg tcttgactt tgcggtttg gaagcggagg acagtggcag tagtgagacc 1020
agcgcccata tcaaatacaa cgtggtactc aggtttctcc ccatcagaaa cgctgggaaa 1080
ggttcggctc atcgcatagt tgagtccaac agcaaggcca tcgctgataa gcgcgtcgac 1140
tttcaatccg gccagttcag cggctaattg cagacttctt tttcatccg cagtatagaa 1200
cgccggatat gtgataacgg catctctaac atccgatccc ttgccagcca aattgtcagc 1260
attagcetta atctgcttga gttgcattgc caaaagctct tcgaccaaga aagcatcttt 1320
ccgttccgcc tcgccagtc tgttgcttcg gaggccaatg gtgccctct caaaaggagc 1380
atcctccaat ctcaaagcag ggaagcgtgc ccggtatgtc tctatgagct cgttctttcc 1440
atcgttgaag gggactccga gcagtatctt aagggtcacg tagacatcgt ctgggtaccg 1500
cgcagataat gcaagagcat cacctccata gaaccgttcc ggaaacgacg catcactttg 1560
cctggtaggc ttgaatgcaa cagcagctga ttctttgcgc tttgagtcct tagtgagcac 1620
aatttccagc ggaatccctg gcttgacaag cgccgccttc aagtattccg tgccgacgtc 1680

gattccgagg accgctgaac ccacggcgga tgcgggagcg gggaagctta ggaagaatag 1740
aataaacggg agaagtgcga gggagagaag aggagacgag gaaaaaagtg gtagcagggtt 1800
attcgttctt cgtcggccac cgggagccat tgtccttttag ttccgctgct gcaagacgtc 1860
aaaggtgata agcagagtgt ctcaaaatga tgagactggt cctggtagca tacctttgga 1920
gcagtcgggg aaaaaaatga agaaccgaca agacgcaagc aatgagcgaa atggacagcc 1980
gactcttggt agagagttgt agtagtcagt gctcaagtcg accaatagat tagctgtaaa 2040
tcggagaata gcaactgtaaa gttgtaaaaa gtgcggcaat gtaaggatag caaggtcaga 2100
gaaagaaaag agatcaagta gtgagaagtg ccatttggac agaatcctca agaaagatac 2160
tggccaccgg cgggag 2176

<210> 2655
<211> 3551
<212> DNA
<213> Aspergillus nidulans
<223> unsure at all n locations
<400> 2655

tcagtcacac cgtcactacc gaccatgtcc ccatcgatgt ggtatccaag cccttggcca 60
gaaggttgct aagaacgcct gcaaccattt ggggccaaat gcagacctgc tctgctatcc 120
agtcgctgcc atgactgtgc tcaacatcng ccgtttcgct tacgaggact cggagtttcc 180
taatccgat aggatgacgg tcgaagtgga ccgcagcgag attgcaaagg tgttccaggg 240
tttcagtccg cagattgctg acatctggaa gctttatccc gagaagggtt tcaagtgggg 300
gatctttgat ctggaagaca accccccttc gacatatgcc cgcggtcgag cctgtgtcgt 360
cggcgacgct gcacacgcca gtaccccgta tatgggagtg ggggcttgca ccggcggtga 420
ggacgccctt gttatctgta cactcctgga gtcggtgcag cagaaggccc ttgccggtga 480
aaagttgaag gaggccttgg tagaggccct ccagacatac actggagcaa ggttggagcg 540
aggccggtgg atccaccacc actcgcgtca gatgggccag atgtaccact ggaggtacgg 600
accgacaggt cgtgatccgc agcggatgaa gcagaagctc gaggagaact ggggtaacgt 660
ggtgacttat gatgtgctag cgcctctcca gccggaactg cgtgagttgg cgaggagtca 720
ccaaaaatca ctgtaaatac gtacatactc tgataactta ttgttgaatc gattctgtgt 780
ctctgaatct tgtgtctgtg aacttgaatt attctttcca ccgttctatt gcagtacttc 840

gttgcgagaa ctctacgaag ccattaactc gcccgatcag atcctcctga gaaggacaca 900
 gcatctacgc tccgatactc ttccactcta tgccctgtaa actctcgagt gcgaagtttc 960
 cgggttcttc gctggcgtga tgggtgcaatc tacttgtaga tcctcctacg acgcaagact 1020
 ttgctctaca acccctgac tagaagatat tgagacaccg gtaaaaacaa gtcaatatctc 1080
 tgaagttgtc gaggaccata acaagtgaact aatcctatct attcactgct tgggggcttc 1140
 atgatggaac gatcgccagt agaccaaattg tgagtcgata tcctcgtctt cagcttccaa 1200
 aggtcgtcta ctttgacagc atcacaggcg tagaacgcgc cagtgggtgaa cttggtcgag 1260
 tctggctcgt agcccttgcc cacgatgcag tgcactgcct gagcgttgaa cgtgacccgg 1320
 gcagtggttt cgggtgtcaat gctaacacgg acgtttggag atataatgga cgggtgttaac 1380
 gcgctcatca acattaatcc acaccttggt cctgagctct ttgtaaccgt tgcactcttt 1440
 gaaggcgatg tcggtgtaga tgtcgggctg cgactggat tcgagaagct cctcgtggc 1500
 atggtcgatg gagggcgaag cgcggtagca ggcgtcggcg atggcctcgc ggtcgtgag 1560
 agggggcccc gccagtttag ccgggagggg ggttccgttt cgaaccatgt tggctgtaga 1620
 gatgattgtc tatagagaca atagtctgtg tggtgattga cgtcaaggat gaaggcaggt 1680
 ttgtgggctg atatcgaagc tacaagacac aacaaccctt cgatatatag acggagtaaa 1740
 caaatgcatg aaaaagatcc cctttccgtg tcttagcctg acgtgagatg tcgcttgaag 1800
 tttgtcgcgt gtcggacaaa aaatgtaccg ttgatagttt gtaactatct tgagcccga 1860
 cacagctccc aagcaggtct gtagggctag ggattaggga ttagggattg cccgcaccac 1920
 tcttactgta agagagtagc tgatgatttt gataggcttc ggtgaattag ttgtttcgta 1980
 cgggccggta aaggcgata taggtatcca tatacacatc tttatcttaa caggatactt 2040
 ttgttttcgg attattttgc catacttttg ctgctcactg ctctaccct acttataaac 2100
 taatagtatt caagcctcga agaccatcca ctctacttct accttcgaaa tggacaccga 2160
 tagcgagtgg gccagtgagc cgattgccat catcggcatg agctgcaagt tttccggcgg 2220
 tgccagcaat ccagacaagc tctgggacct tatggcgta ggcaagaccg gctggagtga 2280
 gattccagag gaacgattta accttaaagg agtctatcac gcaaaccatg aaagaaccag 2340
 cacagtaacg cccctctctc catgaccaac ctagggtttt tgctgacaag cccagacgca 2400
 tgtcaaaggg ggccattttc tggacgagga tgtagcagtc tttgacgcag cgttcttcaa 2460

ctattcggcg gagatggccc aggtgggtcga ccctcagttc cggctgcagc tcgaatccgc 2520
 ttatgaagcg cttgaaaacg gtctgtctctc cgttatctga gtcacattga catcaactaa 2580
 ctaattgaca gccggcctgc ccctgtcccg ggtattaggg tctcaaacgt ccgtcttcgc 2640
 tggcgttttc gcccatgatt accaggaagg aattatccga gacgaagata gactgccacg 2700
 attcaacgta gtcggcacat ggagtcccat gtcaccaat cgcactcac actttttcga 2760
 ctttcggggc gccagcatga ctctagaaac cggctgttcg acgacattgg tggctctcca 2820
 ccaagcggtc cagaccttgc gtaaccgtga ggccgacatg tccgtggtga ctggcgccaa 2880
 cgtgatgctg aatccggaca cttcaaggc catcgggtca ctgggaatgc tgtcgctga 2940
 cgggcgggtca tactcgtttg attcccgctgc caatgggtat ggccgtggag aggggtgtggc 3000
 taccatcatc attaagcgac tgtcggatgc gctggctgcc aatgaccca ttcgtgcagt 3060
 gatccgtgaa acagcagtga accaggatgg caagacggac accattaca cgcctccgg 3120
 tgcagcgcag gtagatctca tgcgggaatg ctacagccgt gctggccttg accctcgcg 3180
 cactcaatat ttcgagggcc acggcacagg gacgccact ggtgacccaa ttgaagctca 3240
 agccatggcc actatcttca gcgaaggccg ggatgacaag aaccattatc tgcgtattgg 3300
 ctccgtaaaa accaactgtg gccataccga ggccgtttcc ggtcttgctg ccgtgatcaa 3360
 aggtgtcttg tgccctgaga aggggttgat tccgcctact gtcaactatg aaatgccaa 3420
 cccaagctc aagctgaatg agtggcgact caagtggtg aggacgatag agcattggcc 3480
 tgacagtcta attgatggac cttgccgcat gtcaatcaac aactttggct acggcggcac 3540
 caatgctcat .g 3551

<210> 2656
 <211> 1982
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2656

gcaaaagcaa cttcacaatc ctccccaaag agaccacacc gactcggaag aattcacaca 60
 actttttaat ctccctcatt taaccttttc aagtaggggc ccgcccttcc ctagggccca 120
 tagcaaccaa accatgtggc tcccatgcc cgaaaggggg caaagccagg tctccatcca 180
 ttgttcaaag agcccaagcc gaccaaagt gattatttcc caaacgatt ctccctttgc 240

cagatcatgg tgtccactcg gaccattatc aaagcagtta tgcaggcatg atctctaaat 300
 aggggatagc ccaccaccat tatcatccca ccagaaaacg tcgctcgcg tgtggtacca 360
 aatttctgag tcgcattttt actgctgatg ctgtgctcta aacatcgtaa tttgacggga 420
 aagaaaaata ggaatgctgt ctttttgcg gggcctggat tattcatgct tggttggcgg 480
 tcgtttgggt tatcccttag ttttcacagt acatatcttg cgctatgagt tatgatatac 540
 catcaaatca gaatgtttcc atctccattt tccgttcaaa tcgggcttgg gcattgcgaa 600
 cgacctttta atgacatgct agcaacttaa tgcgacatac acaaggcttt gctcaatggc 660
 aatctagctg gcgctcatct gggcacaaaa tattcaaaac ctagagtctt ccaatcggcc 720
 gtttcccagt acacgtcttc ctattttcct tcctgctagt cgcccaaaac actaataatt 780
 catgtcttga aattttcggt gacagacact gaggccgtga tatgcaagt aagatcaata 840
 actgcttaga ccaggattct aaggctagat aggtaggtag cttgtacttg tagattagat 900
 aaaggcagct ctcaacctca tacgatccat tgactgcagc ctacagtcta agtgcctatat 960
 gtacaaagtc cggtcgaagg tgggggttct actataatac tccgtaatat agcccacttt 1020
 tcttcgatga tggcatagct ctgatttcag agtcggcaga agaagtgacg agctttgggt 1080
 ggatttaggg gttatgtcat tcatacctaa cgatgaggat gcaaacaaga atattcgacg 1140
 gtaggttgcg tagtattgtc tgtttggaat gtaaataat atgtacttag atgctatcct 1200
 acgaatacta aggaccaggt gcacgggta gaagaccaag ccagtcaatt cagagggaga 1260
 atcggggta gggccagctt accctgcagc taacttaa atatgtaac gctatgggcg 1320
 tggaagacac agcgggacag gataggataa gacaggacag acgattcccg cacagacaga 1380
 gacgtaaga aagaagattg tgaagtgat cacaagaga ccggacagga tgagatggca 1440
 atgaccggaa ttttgagaat aagaccatgg ttttgcgctt catttcccc accccattga 1500
 gttatatgcc accgtgtgat atatttagag ccaaactctg tcctactggc ccgtcccaaa 1560
 aacctgcgtg gttttaatat ttctttgggc tctcaaagg tccattttta ttgaaaaaac 1620
 taagtgaat atatgactat ccccttttac aacaaaataa tatttcttaa aagctctaac 1680
 agccctttct ttcatatcct ttcttccatt tttgcttcaa atcatttgcc taatttgcc 1740
 tttacccttg aaaaatctac cctttcccct tcaatcgaat cagctacct aggttaatca 1800
 ctgatcttaa tctctacatt ttacttttac cccaaacctc actttttatt atactatgct 1860

tctatcttct ccactctatt ttactctct ccctactata tctcacttta tttctctatc 1920
ctatctctc tctctcttct acctttcatt tccttcatac ttactcactt tcttatcaaa 1980
ac 1982

<210> 2657
<211> 2301
<212> DNA
<213> Aspergillus nidulans

<400> 2657

tcccacgaca tggcggcaac cttgactgct cagtaaaaaa accttggtta ggtgatatta 60
ccaagcagat aagcacaacg agctggcttt tgtatgcatt ggggactgga tgcggagttc 120
tgcagccgga taaggcggta cttgaagact gacatcaaag gtcacatcgtg acagagacgg 180
aacttgatag gcgtacagca ttggtgctgg ttcaggattc aggtcgtctt aagcttgcag 240
ctcgagaaaa gggctccggt gcaagtcgcg tcatgtccga gttgccgccg ccatatgata 300
tagaagctcg ctttcgaaga gattcgaagg aggcgcggt tgggttagtg acaccgcgc 360
tcggagttgc cggctcatca cggctgcttg aaaactgctc aagggcctta atgcgcttgg 420
agattccaga agaaacattg atttttttgg ccactagcac tggccctgtg gaggtttcgg 480
ccggtgagaa cgaactcgaa acggacctgc cagcacctaa tgtgggtgtg ttgggaaact 540
gatgccagat agcactgggg ttagaaaccg cagcgaatt tctccatgca tcaggcgcag 600
cttgggaatt ccctccgttt gaataccccg gggagagtgg ggactttccg actgatatgg 660
gctttgcctc ctcgaccgtg gcgcttttca gttcttccat gaaggaatca tcggaaagca 720
tgtcgtcatc ggaataatcg ggagtggga cttgtatagg ctccaggga ggtctgcgtc 780
tctcctttcg ggttattgcg ttctcttggc ctacgtctat agcttcagac ggtggcgcag 840
tctgcagctc gatgtggttg gaattggtca cggctgaaga gtcggtgaca gactctgact 900
tcgactcgga ttcgagagat gttggtggaa ggattgactg gggttggatg ctttcgtttg 960
aattaggggc cacggctacc acgtttttgt ttataacata agacttctcg tcggccgggtg 1020
ggggagttgc gataatttct tctgcctccg agtctggggg tttctgagaa ttgttttcag 1080
gtgggacgtc aacaacggcg ctagaagtgc cggtgccgca ctttaatttca ttttcagtgg 1140
gccccgttgg atcttcttgg atagaatccg cctcagggtt ggacagagag gggccctctg 1200

ctgtcttttc attgtcaatc aattccgtgt ttgcgggtga gtacgtggta ctccggcagta 1260
 tatagtcgga ctgataccttg accgtctcta cagctggcgt ctctggggtg gagcctaacg 1320
 gatccttggc ctgctcttga tctccagcga gtccaattgc gacaggcttc tctgtttcag 1380
 gttgcataac ggggccctgg cccttgttgt cattttccga aatgctagat aacctctggc 1440
 ggctcctatc atacttctgg tgctcaaagt gtgacccgac atcccctata tcgttcagat 1500
 ctgatgttgc attgttggtt tcttccttag ctgcctcagt ctgtttcgct gcttgtgctc 1560
 tcctttgcat ttgtgacttg cgtaactgaa gcgctttcat aagcctctcc ttttcgttag 1620
 aagttgacgc agatagtgcg ctccagcact tggccccagg agaaagctga ggcctcgaaa 1680
 ttgacattgt agacgggggc accaatagag ggggtaccgg cggcaccttg gcggatgggg 1740
 ttgcaacggg atttccttgg gaacgaggac gagcgaaggc agggtttagac ttgcgaaacg 1800
 gggatgctcg tacaccagca ggcaaagaag cgacagggcg ttgttcagcg ctacgaacga 1860
 gattacctgc tgtgcgcggc cgctccactt catctagcga aggcgcgggt cctagcttca 1920
 ccttgggctt tattccggct gtgcgttcga ggtctcgtat agaaggcctc gccgactgcg 1980
 tagactgtcg gactccgtcc gtgtcaaaga taaatcatcg ggatgggtccc tcgatgaagc 2040
 cggccgtgca tccacagggg cagcttgagt gaggccattg acgcgatcgt cattgggact 2100
 tgttggtgca gacacatcgt ctttggggcc ttgcggcgca gttgaggcta ccgatggcgg 2160
 cagactgtg gcttctgacg cttggctaaa cgatctctgt cgggcacctt gaggtgggtg 2220
 ttgggtctgt atcgtactcc ttgcgggaga ttctctgca tcttcgcaa tctccatcag 2280
 tctccgacgg cggagcgagc t 2301

<210> 2658
 <211> 828
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2658

caaaggcatg gttcgccaaa tccttttttg ttgccacca tctctgcgtg atatggtcta 60
 tggcgctccct tctacagact ttttaagagta tctaaaaccg ggctcctagc acttaaaaag 120
 ccgttctctt tccagagctg gtgcagtatg cagattgaac actgcaaggc caacaattac 180
 cagagccatc tccccttcag cgtcgtacct ccaaactcca cgtactgggg catgaatgat 240

ctgccgaact actacgggtga cgtccgaatc aagaagttct cctttggaca aaaggagacg 300
 gctctggcgc tggacaaatg ccaccagcgt ctccggaccg aaccctaga cctattcctc 360
 gcagttatca tgcattcatt ccgacggacg ttcaccgata ggtcattacc tacgtttctac 420
 aacgagggac acggcaggca gacatgggat tctagtatag acttgtcagg aactgtcggg 480
 tggtttactt ccattctgcc tctccaagta caacctgagt ccagtaagta ggcaccacgc 540
 ctcaaataatg aacaatactg acgaatgaga ttgtacagac gatatacttg agactctgcg 600
 gatggtgaaa gacgcccgcg gaaagactat caacctggc acctcttact ttactcaaac 660
 gatcctctcg cctgagaacc agccggcgtc tccatcaatg ggtcttcccg tggaggttgt 720
 cttcaatttc ctcggaagc tgcagcagct tgaagagaa gattctccgt tccagcacta 780
 cggcaagttg tatgacgaaa atgacttcaa gctggccgga gacatggg 828

<210> 2659
 <211> 1759
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2659

ggtttctctt ctagctctt tttagcttcc tttctggcgt ccatttctag tatagggtgga 60
 tgtgcgggga gagaggtcag tttacgggtga atgtgtatgc agaacttctc atatgttcgc 120
 tagttgtaca gtagagtagt tgagagatgc ctgctttctc tcctaccaac atgctatgta 180
 taggctaggg tcgtttcagt cactatcgaa caaatacaaa tataaaacaa caagggaaag 240
 tgaatctaag agatatagac gaggaaaaga ctattctgca gacgcgcggt tcccagattc 300
 ttccacgcct tggttcgggc tcagattcgt cgcacttata ggctcaggta gtttcatagg 360
 cgcacgggcc ggcacgacaa gtctgtcgag actttcgccc ctccagaacct tctccatttc 420
 ctcttgggtc aatgtttcat acttaatcag cgcctttgtc agcaactcta gttcatgtct 480
 cctttcggtc aaaatgttgg tggcacgctg gcgagcttcc tcgaccaacc gccgaacttc 540
 agcttcgatt tcctgctttg tttcggaaga taggctatcg tagttggcgt acaggtcgac 600
 gtttccaagt ttcttgaggt agccaaaacg cgtgacgagc gtgaaggccg tccgcgtcgc 660
 actcgcgagg tcctacatcc attagcgact gcctgagct taaagattca agcgttgtga 720
 acataccgct gagataccac tagtaacctt gtcttcccca tagatcagct cctcagccac 780

cttaccgccc atggagacgt cgatgtcgct tagatactgg acatagtttt tagataccat 840
 gtccatttcc ggcaagaaat gcgttgaacc tagagacatt cctcgaggca tgatggtgat 900
 tttgtacaaa ggcatagagg acggcgagaa gtaggcaacc agagcatgcc ccgcctcgtg 960
 gtaggcggtc aaaagcttgt ctttatcctg gataatcctg ctgcgagcct ctgcacccat 1020
 gatgattttg tccttggcat agtcaaaatc tttcggagtg accttagatt gcttattcct 1080
 gctggcgaaa atggcggcct ggttgactag attttccaag tcagcaccag agaagccgct 1140
 cgtaccacga gcgatcactg ctacatcaac atcagtgtg atttgcacat tcttcatatg 1200
 atgcttcagg atgtccatgc gtccccgaac gtctggtagg tcaacaacga cttttctatc 1260
 aaatcgacca ggacgggtca aggccttgtc aagcagttca ggataattgg ttgcggcaag 1320
 gatgataaca ccggtagact gagagaatcc gtcgagttcg gttaggagct gattcagggc 1380
 ctgtttcacg taggcagcat ctcgttcatt tctctttgca ccaatggcat caagtctgct 1440
 aatgaaaatg atcgcgggag atttgcttcg ggcttggttg aaaagttcac ggaccgcgtt 1500
 ggcgccaact cctacatata cttcatcgaa ctgagagcct gacatgtaga agaaagggac 1560
 accggcttcg cctgcaacgg cacgggctag cagagtcctt ccagttccag gaggcccaac 1620
 aagcaaaact cccttgggga gtttgccacc gagtgaagaa aatcgttccg ggttcagcaa 1680
 aaactcaact agttcctgga gtcatacctt tgcttaaaca cagccatgaa catcactaaa 1740
 gcggacagtt tgggtggtcc 1759

<210> 2660
 <211> 709
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2660
 gtctcctgct gagtcctgc aaatcaggaa ggtaagcctt gacccttggc atatgctgat 60
 gcgtatgctt gatgggctgg agtcgcctcc accaagtcga gtggattccc aggatccggc 120
 acttaggcgt ccacctgtga ccgactcccc ctccccggtt tcgatacctcc agcagccatg 180
 cgcaaacagc gtacctcga caggaagggtg gccacgggaa ccgtacagga attggagact 240
 atgtaggttag cgtcgacggtc tcgacgcgtc gacgcggctt cgcaccggct cagtcttttag 300
 acgatggagt acgttggagg ttatcctgtc agtgcaccgt agtctgtgca tacggacatg 360

gttgcacggy ctatcagtea ccaggccagc gccctgttct acttttccgc gtgcctcagt 420
tagggtttcgy gacacgactg gcaaataaac ttgacgccc atccactagt ctactttata 480
tcggtttagt cttacgagat ctccaggcgc gtagccgtga ccgcaactga tcgcatctg 540
gtacgacgat gcaaactctg tcgatggcag caatcttcag gaacggacga tccagcgccc 600
tggtacaagc gcgattagcg agcgatcgag atgaataacg tgaagatcga ctcgacctgg 660
aggttaagaa tatacacctt actaagagca aggcccatct gtcactctgc 709

<210> 2661
<211> 1568
<212> DNA
<213> Aspergillus nidulans
<400> 2661

atcactaacg tcccagcagg agcacacctt tcctatcgcc gatcttatcg agcaatatag 60
ttccgatact cctctccatt ctatcatcca actgcccttc ttccttcggt cttcctattc 120
tccgggtttt gaatagtgtg gcggatagat tgccctctaca gagccagcaa caatggccca 180
gggataactcg cttggcggac attcttttct caacggagca cattggctgc ttgacctgca 240
tccttggcca ggattacagc agccacagtc ggctgactgc gattgaactg gctgcaggtc 300
ttattgggaa gctgtgcaca gaggaaagcc acaaggctgt tctggctgaa agtgggtgtt 360
tagacgctct ggcggtcaaa gtcgcatcgt ttatagttgc gcagggattc gttttccccc 420
gcgagagag ccacctagat gatgtaggcg ctctggggtc actgccacct cctgcgcccc 480
gcggggctaa gcttgcgccc attttacgtg ctgtgacggt catcgttgag cattccaagt 540
ggcgagcgga gcattttctc tcttctccag gtatagttac tgtgtttcca cggcaaatac 600
caggcttttc cccatcgat atcaagaagg gcccttgggg ctccacttat ttttcagggt 660
ccgcggtgcc acggcacctt ggaggagcgc ctctagagta tcttcttcca tctattcctt 720
tgtcacagtt gaagccctct gctagctcat ccaactttcc accgctaggt cagtatgggc 780
agcatcgccg acagagccat tcatttccca ccccgctgic cagtttcgaa ccgcccacgg 840
ctgaggacga tgagaatccg gttgtccctt ggctgctata cctcgtcogt gctgagagcg 900
gcatggctcg tctgatggca gcccgctttg tgacgggtatt atgccgcctg ggactaacca 960
aaaagcacag gatctccatg ctctgctatc tgtaaatccc gattctgctt cgcattgctg 1020

ataaggacta cgaggcctct gacgacggtg tccaatacgg tggacttatt tcttcctcgc 1080
 aacgcattaa ggaggaagct ccgggtgtgc tggccacctt acttggtgat gatcgagaac 1140
 tgcagaaaca tgcggttgag ggggatgcga tcaagcgact atcccagctt ctcaaagaaa 1200
 cttataatcc aatccatgag ccagctcgaa caatgtggca tgctgaaggc caaccgaagg 1260
 ttgaggacca tgactcgag ccggcggagt gtcgattagg ccttcctgga tactcacccc 1320
 tccgttacca tatcttgaga tatcgggaaa atatattgaa agccttggtt gcactgggtc 1380
 ctttcaagga cgagtatcgc aaggcgggat gcgagcacgg tggtgtgcca tatacattg 1440
 attctctcaa acccttccca gaccaaatac cagcagagtc ctccgatcca ggaaacactg 1500
 ctgctgacgg caaccaaca ccgacccttc tggcagcctg tggtgcaacc aacatgctga 1560
 ctgtagt 1568

<210> 2662
 <211> 1099
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2662

atcaatctgt aagctgtgct ataccataa ccaaattgta ttgaatagtg gggtagtaca 60
 gaggggtaca cagatgccgc cgctgccag acggcccatt gcgtgacggc gtagtcgtat 120
 ccattaggaa ctaggaaagc aatacgccgt tcgtccaggt ctccagtgtt ggtaagagtc 180
 aattcctcca gaatccgttt cttgagtgtt gcggcatctg cgaggagctg ggcaaaggta 240
 aactgctgga ccttggtcgt atcgataacg gccagcttat ctggattggc cagggcatgc 300
 ttcttcgctt caaggaaaag aggaagagag ggaagcgcgt ctacgcacat ggtgactcct 360
 ttccttgctt tgggtctgtga atgtaatggc aggaaaagat gcgatcgtga tgcggtagca 420
 atggtgaaag gaccaggggt tggtgcttga gcggcggatc ggcagtcgc tctgagaaga 480
 atggcacgcg attattcgac gaaatagacg ataatcgatc aataattatg gagcggttgg 540
 agacgtatcg ggtcggcgag gaatcggaga ttcggagact cgcgagagat aaagcacgta 600
 tttgtacatt gcaaagatat agatgagctc ataacaagtc aaggattctt agacggtaag 660
 tatccatacc gtctcttctt gttattgttg ttcacccgca aaatgacccc agtggaaatgg 720
 attagttgat cctcggttaat ggactccgga gtcggcgcac tgggtccgcg tgcgagaaaa 780

caccacatc actatattgt atatactctt gagtacatat aatattgcat acgcattctc 840
cattttatcc tataatatgt caggctgcc aaccggcaca gactgaatcg cctcgctctc 900
gttgtcttgg actattcttg gagtattcgc acacgtgaca gaagcctcgg aaatcaggcc 960
gagaccggac cttttcttga accgcatcaa agtccccgtg aaggcacagc tcgggtcatg 1020
ccattgccaa taatgctgcg attaccgccg ctgcgacaag gctcgttcgt cctgcagcgt 1080
cccatcgctg ttctgtgcac 1099

<210> 2663
<211> 4173
<212> DNA
<213> *Aspergillus nidulans*

<400> 2663

cagtttatga cagcattacc atagctaata tatctttcca acagccatgc ttgttcagtt 60
tggttgctctg tcggcaaggc ttgccaaat cctgggtggc tgcataca tgatgttcat 120
gttcggctcg atcgtgcctt ctttttttct cgaccgcatg ggtcggcgaa atacaatgat 180
agcaggttgc gcaggactta gctgtgcat gatgatgac tcagctctgt tgcacaagc 240
taaaacatct aacggacact ctactcatc cgctgctgtg actttcttct ttctctatat 300
gctagttttc ggcatgagcg tgaactgtgt gccctgggtc tatgttcag aaatattgcc 360
tctggccgcc cgcaactcgc gtactgcgat cggatcagt tcgaactggt tatggaattt 420
cacggctgctc atgattacac cagtcattat caaccgcta cactggaagg catatttgat 480
cttcattggtc acaaatgcgc tgttcgttcc cgccttttat ttcttctatc ccgaaacaag 540
caacttgcca ctgaagatg ttgattacat cttttctcgc agtggggatc cggtgaaaaa 600
tgccgagcag attctcgtg aattgaagct aaatggacat gttgatgcc ttcaaggcag 660
tggcagccag ataagcccct caccgcatth ctgagaggag aagggtgtcc atgaagcaag 720
aaacgaaacg aaactggctc cagctgaaag caggagcacg tgaatgctct ccaggaagtg 780
aaagagtgat tttttggctg tgatacggat aaaagaagaa agattggatt ggtagccta 840
agagctgctg ctttttaaca tgatacgatt tgaagctata gacgcgtcct aggaactttc 900
aggtcaatgc gagtattata cgtccagcat tcacggttac agtcaccac ggcttcaact 960
ttacggctgt gtacacttag acgatttacc ttgtcagcgc agacgtggta gtatcagcag 1020

gtgaaggatat tgtatgatgc atgcttgaag acttgcttgg acccatcaag ctggaactag 1080
 ctggtaggcg tcagtcgtcg caaaccaagg acacagtaag catatttccc gactattgga 1140
 atcagaacag aggtctgaat aatgtgtgcg tgtgtgcaag atcgtagagc gatttcggct 1200
 gtctacccca gctctagtgc tcatatttga aggaggcact tcaatatgtc ccttccgcaa 1260
 agatgtggct atccattgag tcacacacgc atcaaaccat cgtgctcttt tagaagcggt 1320
 aatgcttttt gctatctaga acgagtecta actacgctat tctcctcgcc ccatactgtc 1380
 tttcatgcat tacgtggggt catgcctgtt gctttaacca gctttcctgc aaattctggg 1440
 ctgcttggcg gaactttcag gagcactacg aaccgcagac ttacgcaaac ttgcttaaga 1500
 agcctggagg ctccctctc gtatcggtga aggtgccagt tgaacatttg ttccttcagg 1560
 tggatgtagc cactaagtgc attgaacctg ttcctatgct ctccacaatt tcttctgaca 1620
 gaaaacgata actgatagag catgccttga cactcttga ttacaatgat atatcgtttg 1680
 gggaggatac gaaaaggcca cactgtactg gacagtgatt ggcattagca ggctactctt 1740
 agctgggtct cccatgtatc ctgtaagtcc aatagatgtc ttcagggctc tactccagta 1800
 agatgatgat agcattctct cagcttcggg gtctattata atacaaagca tgtgccaccg 1860
 gtctccgaaa attgacattg tgagaggcaa gatgttcagc tttattccgg ggtgatattt 1920
 catagcccta caggggtcaat ttctgaataa ttagcaccca tactgcatga gacgaatagt 1980
 ggtccatcaa actcttcgac tataataggt atgaggttga ctgtctcgat ccttcggggc 2040
 tcttacatca atttacatat gtgaaaactt tggacgatth cgattcaatt ttgccagtgg 2100
 acgatggcca ggtgatggtg gggctctctg atggcagaaa attatatagg gtagatgttc 2160
 tgtatcacgt tcgaccgaga agctgatctt aagatggtct tcgacttttg ctgggaattg 2220
 aagatatatt ctgctgctgt aggatacacg ggcattcttt acttctagga ggggcagccg 2280
 tagtagcaca caaggccacg tagtctctaa tgccgagcat atgactccat gaccgcaggg 2340
 gaggagaaga aagagcgaag atcatttaca aacaaatctg gtctctccag tgacgaaaaa 2400
 tggcctcctc ggtcatgctc ccgccagtag tgaatgttcg caacctgggc tgcccagtca 2460
 cgagggcact ttaccatgtt agtacgtctc tggacacgcg caacaaggtc ggggcgtatg 2520
 actcacatgc agttgttcct tcacgtacat actgacacca catggcaccg acacataagt 2580
 ctgaagggtc ttctccgctt cacgttttcc gcatccgaaa goctcccggg aaaacctcag 2640

gccaggggtc ggccttggga tccagtgcac catcaccaaa gtaataatat cggatatcgt 2700
gaacgcctca tgcacgtcgc ccagtcacg gagcttctca acaaaccacg caagcagccc 2760
gagtgggtgag tccccacg cgaacccaag cgtctgcggc cgggttctct gctcctcgag 2820
atagccactc tgatcttgct caaagtccg gcgcacacgc aatgcctcgt gctcgaactc 2880
tgagtatgtc agcgccgaca ggcaccagcg caagtacgcg tacggtgcgg accagagagt 2940
cggaggaggc accgggaaca tattcacggt gctgtgctgc cacaagtgcg ggggtactgga 3000
tggcaatggc tcgtgtaatg aaagagccga aatcgccgcc ctggtcacaa atttggggta 3060
cccaaaaacg tccgtcataa ggatcttgta cgcgcgcgcg accacattcg ggccgacgcc 3120
agattttgag ggcgcgggtg aaaaaccgaa accaggaatt gacggggcaa cgaggtggaa 3180
ggctggatct ttggcatcct cgggctcagt caaaggaagc accacccgaa tagcctccac 3240
aaaggaaccg ggccagccgt gggagaagag caatgggtata gcattcggtc tggcagactg 3300
gttgtgggtg aagtgcagca tcagcgggoc gtagccaggg acatcgacct tgactaggaa 3360
atgcctgaag atgtcgttca ggcgtcgtg agggttcgaa tcagcgatag ctctccacga 3420
ggggatactt caacgcacct cttccgcctc ccaatcgtag tggcttttcc agaaatccgc 3480
caactgtttt atacgggaga ctttggtctc ctgagaccaa tctttctctc caaaatctgt 3540
ctgctcttcg gggatatcag ctaaggcgag tttttgcttg gtcacttcga gcagttgctg 3600
gtccacgtgc ggcgtatacg gcacgggaat gttgaatttg aggtcttcca gaagaaatgg 3660
taacttcaag cccatcatag ccgctgctga atgatatact tgagttttat ggaagcaaca 3720
tccgttgaag cctggaagac ggacattgca gaagggcggg taagtatcac acggcaccgg 3780
cgcttgaggt tgctttcagc acacggcaat tgtaagcgcc ctgggtgacc ccaccatgca 3840
cgctaaccg gattgggtcca gaggtatagc ttccgccact ctagtctacc cttttacaca 3900
gctcggtcag agttaagaga aggttcaggc ggtagacgtc atcatgctac ctaggtcatg 3960
aagatctctg cggtatcccg gaggcagat ggattgccag aggctgtaaa ataatgctac 4020
tactctcaga ggcgatattg tcaagcgaag caattctagg tgactaaaga ttgcttcac 4080
ctgactgctt tccccagaa acaacacctg ggcccgtaaa gtcacatag ctggctgggtg 4140
ggcatgtgg tcggcgctcc caataactga tgt 4173

<210> 2664
 <211> 2936
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2664

```

ggatcgtgta tgagggctct ggatctgtct cgagcaacgc cgtttcaatt gacagaggtg   60
aatgatattg tgttctcctt tttacaagct gaagcaccag tttctgagcc taaacgggta  120
tagcggctct acccctgat ctggaaccta ggcaattatt ttagttcagg ttgccagctt  180
ccccacaat taggatatca tagccttact ctacagactg actggacgcc gctcgccatg  240
gaataacttga aggatatctc gtcgtccctt tcgggctggg agttcaactt tgctcctggg  300
tggcagagcg tgacagcctc agtgctgctc gtggctggag gctggtttgt tgtctccagg  360
gtttggacct tcctcagggt cttgaccagt ctgttcgttc ttcccgaaa atcggtatgt  420
tatcaatgct aatccgtttg tctatacgaa aatagtactg atgatttagc tccgctcatt  480
tggccctaag ggtagctggg caattgttac aggtgcctcg gatggtttgg gcaaagaatt  540
cgccctccag atcgctcgcg ctggctacaa catcgctcctc gtttcacgaa ctgcttccaa  600
gctaaccgcc ttgaccgatg agattacgtc taaatacccc tcggtccaga ccaagatgct  660
ggcgatggat tttgctcgca acttgacga ggactacgaa aagctaaagg ccctcattca  720
agacctagac gtagctatct tgatcaacaa tggtggaaag agtcacagca tcccggttcc  780
tttcgccctg acccggagg acgagttggc ggacatcatc accatcaact gcatgggtac  840
tttgcggtt acgcaactgg ttgttccagg catgaccaa cgcaagcgag gattgattct  900
gaccatgggt tcttttgggt gtctcgttcc atctcctctc cttgctacct actccggaag  960
caaggctttc cttcagcagt ggtccacagc tcttggttca gaactccagc cgtacggcat 1020
tactgttgag ctggtgcagg cctatctcat tacctccgcc atgtccaaga ttcgcaagac 1080
cagtgcctta aatcctaacc cgcgtgcgtt tgtcaaggcg acattgtcca agattggcaa 1140
catggcggtt cccaggtcta cgcatacaga atcctccata ctggagtcac ggattgggtc 1200
cataccttgc gacatgcgtg atcaaccga tgagcaaatg gctcgcaaac caaaacaagg 1260
ctatgcacga gtcgatccgc aagcgggtc tcgcgaaggc agaacgtgag aacgcgaaga 1320
agagttcttg aaaggacatc gtcatttttc tctcaagtct cggccgagtg ttttcgtgtt 1380
tcctggagcc cgaaagcaag acgcgagaca aaacaaggca aacaacatgc aaagaacgta 1440

```

tgagaaatga taagagatgt tacgtcaggg atgaaactca tgatggaagt ggcctctgag 1500
 cattggggcca ggtccaaacc gtgaggcaag agttagagta ttcgttttta cgtctcgaga 1560
 catgagacgt aactgcatta gtttaataat tattatgttt attatctcct ggcttggagc 1620
 actatgtcag tgagcggacc ggcaacgagt ctgcacgaca aatcatcgcc gccgtgggag 1680
 gcctcttttt ttgcctgctt aatgggtaga tgctacgtag tcatacgacg ttttgcaattt 1740
 tcgttacacg agtcggactc aggactgtaa tgcgacacaa aacaaaaccg gctagccaat 1800
 catggagcag aaagacctag agctgcagat gccgtgcatg acggtgcacg aggccttgag 1860
 tctcctgtca gtcctaaagg agaaagcggg ccagaacttg ttgctagcgg gacggtagac 1920
 tatggcacgg cttgagccta gatcactctc tgagacattc tgtaagcctc tgattcgggc 1980
 cgagtttgcc tcttctagtc tcaaaggtca aggcggaaga caagcgctcg gcataccttc 2040
 cgtataacaa accttcagca tcactacacc tcccctcaag aagaaattag tacttggcgc 2100
 cggcattctt gtgtgttctt ggactacgtg ctactacgta agcctgaaga ttcacctagc 2160
 tgctcgggag ccgtttgatg aatgtatacg attgtcggct gcaagctcca tctaggttct 2220
 gggaccagc cgtgccttgc acggctttca ccgagacctt aagcgacctt gaccagtggg 2280
 ccttggtagc agatcggcag acggttccgg ccaagggcca aggcaggatc atctgcattt 2340
 gcaggccctt gtgctctatc cttcgacctc ttgaggtccg cataatagat caggcaactg 2400
 ggcgatatct tctacagatt gggcagtttg ggcagctgct atactatcta taatgctcta 2460
 gggcagctca agacaagtct cagctcaaag gatatactac atgatgtaat taccttagtg 2520
 ggctggagag gcgatgagaa gaccaagact cgagccaagt ggaacaaggc ccaccattcg 2580
 gtgaggattc tgcgacgaaa ggtatgcttc gctgaaaaat ttgcaccca atcggcacac 2640
 cgagcccgtt tcagaccttt cagcgtggat ccgagctctt cggcgtgccg ataagttcgg 2700
 ctccggacca caccgcaaca ccaaaagccg tgtcgaatgt cggagagctg caatccgtcc 2760
 tccagtctgg aatatatata tacccttaag agcagccttt tcgcgaggt tctgtttctt 2820
 acagatcccc agcttctgct cagtccaaat ctatgctgcc tgcttgggtt tgtgatcgcc 2880
 aggaaaaaat tcttcttgag gtcactaggt gggatctgc cgtgaatccg tgatat 2936

<210> 2665
 <211> 1038

<212> DNA
 <213> Aspergillus nidulans
 <400> 2665

```

ctgggcagaa agcctcatcc acaaacacag ttagacagat acagtgtttg ctgcacacca   60
cgagcaggca ggttcagtcg cggccagcag atctttcctt ggatcaaccc atcgatttgt  120
ttggcggcga cttcacgatt cccttaagaa tcgctgcgta tcggctcact ccgttcctcc  180
gccagctaga tcgattacag tcttgtccta gggcaggagt accatctgag caaattatcc  240
gggttacctc tcagactgtc aatattcacc ttcccgtcca tgtctgtgcc cttctcacca  300
ccagcatctc acttagagca ggtaaaacaa aacgttctgt ggttcagggt caagcgaaga  360
gacatagggt gagggacata ggtggaggat cagagcatga acccagggtc atctggcgac  420
gccgcagctg tccaaccaaa ttccaagttg agtatctgct gccaaatatg gtgtagtcct  480
cataacgatac tggactactt tgggtagggt tggaaagcgc tagactggaa gtctgcggcg  540
agaaagccta gcctgggccc ttgaaatcgc aacagcgagt tgggtgctgaa gagcgtactg  600
atcttgcttg gaatgaggag ccattgactca ccgatcaac ctcaatcaag taatacatga  660
tatagcttga atattcagac ggggtgttct caggactcct gatacgtgcc tagcgaaccc  720
cgctccccgg catctacaag actcaaccgc tgtactcgat ggagaaattg ggaataaaaa  780
tacgcaataa gatctacata caaccccgca ttgatgtctt attcaatcac ttgtccatac  840
agactacgta cttagtccac ctgccctgaa tggtaattct ccgcttctcc cgagggtctta  900
ctccacatcc aagcccgcgt gccctagcta gtcggggata tcggatagaa gagcatgtca  960
tgcgatgcat tctgcagaga gatatactaa cagattcagc tttagtagca tccttgctca 1020
ttctgcaggg gtgatggg                                     1038

```

<210> 2666
 <211> 987
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2666

```

cttcctcgcc ctctcggcct gctcatgtac atcctcattc cagagccacg ccagcctctc   60
ttgcagtgtc ttctttaact tctcctcgtc gctaccaccc ccatctagcc gcagacaaag  120
caggtacgag ttctcggcac tgctcggttac tactcggttg ctgcgtggcc gccgcacttg  180

```

gtcgtacgcc ttgaatgcgg cagccacatc gtctgcagtc gctactctgg catcccccaa 240
 aagctcggcc aggacatgcg catcctcgat tgccctggccc gctccggccc cctggtgcgg 300
 cgtcgaggca tgggccgcgt ctcccagaat ggccactcgg gccctcgcat acgtcgagat 360
 gtgcgggtgc tcgtagagcg ccactgagt tggatcaggc atgtacttca acaccccgcc 420
 gtggttagct catatcctga tctcgcccag cttggactgg catttgccga cgagacaaac 480
 tggggaacgg ctcacctcga ttaagctggt tatcaagcgc cccatatgct taaagtcatt 540
 gtgcatgtcc tctttactcg ccggccgcac ccagctctcc cgggtccatt ccgagtgtaa 600
 ggggtagatg ccacggttca ccttctttgc ccgtttgatc gggtagtga ccgcatacgc 660
 tccgtcgcca acatacatag ttgagacgcg cgcgcgatgg tcgccgacgg cttccaccat 720
 cgtctccatg tccagcacgg caccgtaccc atacattccc gagtaccgag gctgagtagc 780
 tgcgctactcg tccgcaccga gaacaaactg tttgaccttg gaatggatcc catcgcagcc 840
 gatgactacg ctgcgcacggg cagcagtgcc gtcctcaaac cgcactctca ccccatctcc 900
 tgtctcaacc agcgtcgcca gcctctttcc aaagtgcgcg atccctccgg taccagcctg 960
 acgagtgcac cgagaaaatc cgcctt 987

<210> 2667
 <211> 2075
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2667

cattcagaac atcaactata ggtgtgctgc ttgccaatct ttattttacc atccgtagca 60
 accgggtgtg gaccttgatga tcatctagct cacctttgct ccagtttctc cctcacggtc 120
 cacttataat atccgagctc gggccagtca cgacaaatgt gagaaaaaaa gtggtctttg 180
 aagcggaaaa cgatcgtctt ttctgggtgt tttgttgctg gatgccccgg ataagtgcag 240
 agcacgtctc agtttgcccc tctactccac aaacatcgcg attccactgg aacatcaagc 300
 acgaactccg ggtacattca ggattcgaca ccggcatctc ttatccttcc actctacggt 360
 tggatttctc ttgcgaaccg agagttcgat ttgccacttc tcgtttgata aagctgccgg 420
 attccgctcg cggccatctc ttacacgtta aatcagcaca ttctttgggt ataccttgat 480
 tcccaacgtc ttgttttctt tttgtttta gcttcaatct ttcgttacga tgaagctctt 540

caacacactc tcgcttctac tcggcgcagc tgccacgact gtctttgccg gtcgccagga 600
 cggcaagaac cccgatacat tctacctgaa gacttccgga gctgagaact ctgcacacaa 660
 cgatctctat gtttacggat accacgcggg cgctggcatt aacgatgcgg tccctacacc 720
 agacattgaa acagcgagca gggcctacct gaacggcacc aaggttctat tcgactacaa 780
 cacaacattc ccttggggct tgtcgccctg gggcgttacc aactatgcgg gtgagtactg 840
 gccagctcgc atatattgat cgattactga ttaactgccg tcttcagcat ggccattcgt 900
 tcagatcaac gccggtaccg gacaagacgg tttctccgtc aacagtaccg gcttgcaatg 960
 gtcgcagcag acgggttttg gtggctggct aggtacgata acctgataac cggcgagatt 1020
 tctgtatggg cgctaactctg atctttctgt cttcgctagt atgcgactgg tggcacaacg 1080
 caccccaatt attctacctc taccggtact acgacgcgga ataccccgcc tcttgcaagt 1140
 aggtgaagct tgtgaccgaa cccactgcgt gaaccgtgtt atgacattcc gccaccgctc 1200
 agactctcgc ggtaccagtg gtcgagactc gagaggctca tgacgcgcgt ggggggcttg 1260
 atgaatcacc cactctgagc tgggtcggtc cgtggagggc atgcatcatt gccatatgcc 1320
 cggccgtgtg tgtcctggct ttgggacctg agacgaaatg taacggttcc atgtttcata 1380
 attttaaatc tgtaatgcta tcgctgttgg aatattttat ctaatgttgg gaatcaacat 1440
 attaccggat ctttccacta attgttctta ttcttccgta ttgagaaatg ggataagcgt 1500
 gcatattgat gcagattatc ggcaatagta catatagtat ataaataggg ggtggactgc 1560
 tgacaggttc gatctggcta tgctcactgt ggcagaaga tgccagcatg tgagacagga 1620
 tgcgcgaggc cttgacccta caagaatatt gggaataata atgattcaat tatggaatga 1680
 aggtagtctt gattgaacga taatccggtt agacttgtca gcaatttaca agggctgggt 1740
 gccctgagtg gttaatgggc ccacaaatgc ctttttttat aacaaggccc gccccatcgg 1800
 gtttagccac ctcatctgcc cggccggggc tctcgattcc ttttttttagc catcctctc 1860
 ccctccaatc ttggccttcc gtgtaccca cttatcatcc cccctctttt ttcgctacct 1920
 gggctattct ctctttctcc tctcccccta tttgtaatac tcgctcacat cccctaate 1980
 cttttcctac cattttctcc ctcatgttcc ttgtctcact ctctctctcg acgtttccc 2040
 tttctccatc cttctctcct attcttgcatt tccca 2075

<210> 2668
 <211> 1385
 <212> DNA
 <213> *Aspergillus nidulans*

 <223> unsure at all n locations
 <400> 2668

```

atagtgagac ccaagcttcg gatctcactc atcccttcaa taagcgtgct cttgccggng 60
ctttatcacc aataacacat atctttggag cgtaatatgc gaatcttcaa tacctaaatg 120
gcgtaaattc ttgatcttct tgaccagatt ggtcatgctt tgggtaagat tatccaacga 180
ctttgatgag atcgattcga cagaggcctc ctcttgtttg ggagatgtga tttctgctgt 240
ggcttgagaa cgttaggat ttgacatata gtgaagtaat gtggatggct tacgaatgct 300
tcgggtccatt tcagtgttcc caactggcgt aagacttcta atcgtaagcg aggagctcgg 360
catcatgaaa tgcttgtag ccacagctgg gtctgaaaaa tttgcggaat tatagttaac 420
agagagatca gagcaaggat cgggtggaca aaacggacgt atgctagacg agatggtgaa 480
ttgaaatatt aaagatgaag aagacggctg gaagggatta ggaggagaaa aggaaagtga 540
gaagcaagaa gaaaggacac atgaagggat gaatgaaagt aagtgttgag caagagaatc 600
gaagagaggc tgttctggtg ttacgtcctc tggagaggga cgtgacttgc tagacgaaag 660
gcagagattg agtgatatac acaattgac taggcagcaa tcagatatag gactcacttg 720
acaagagaat agagaagatt actttcagat ctgactacaa tggccaatc attttgtggt 780
gtatggaatt atacaggagc aatgagaaga gcatatccag aagctcgatt gatttacacg 840
aagggaatg cttactgtag caaggcattt tcaatctagc tcttagtctc ggcagctggc 900
ccaaggaaat ttatcggtag gcgattgagg tatggtaatc tgaaaaagta tgatcattgt 960
cgaccacggc cgctcgtaag cgggatgtcc aagacaacta tattgcgggt atggaaatcc 1020
tgagtaatcc caaaaagaat ataagagaga gagagagaga gagagagaga gagagagaga 1080
atctctgcaa tcttcacgt cattgatgag cacgatatcg gtggactgag tcaacaccct 1140
gtcgtctact aaaagcgcca ctgcagtgtt atacacggaa ggaatcacia gggattacca 1200
tcaggacgat gtctgctcag aataacctat gcgaaaacgc gcaaagcaga ctctttcttt 1260
atggacattt gcgctgagtt taggtcacgg cgagtccgaa tcccggtcgt cngatgccag 1320
tagatactgt tgaagcacga tacacatngt atcgtagacg cgcctatang actccaactc 1380
  
```

attcg

1385

<210> 2669
<211> 1163
<212> DNA
<213> *Aspergillus nidulans*

<400> 2669

```
atcgcatcca gagtccatac tgccttctga tgcgagccct ccttcatccc ttcttgctgc   60
cctgcttctg ctcgctcttcg cctgccgatt ccccttttct tcggcctttt tggtctcgtc  120
ctctcctcgt gttccctcac cttcatccac tctcccatcc cacccccctc ttccatcaac  180
cgctctcccc gaccttcata tctgaaggcg tttttatcat ttattgtgtc ttttcatcaa  240
tctatctacg acttcacctc cacgaaccgc aatttccccg tctccaacag ccaacgcctt  300
caccacgaa ccagtctcgc ttccgccctc agccactgtc gcgccggttc aatgattcag  360
tttcaactgat ttctccaca atgtccacgg ggccgcccgt ttggccggct caggacgaac  420
aagagtcaca acccctgct gaaaccaga cccgtgcccg acggtcgcgt agaaagaagg  480
acgacgccgt tgagaccgat cggaaggaac ctacaaagtc ggcgagatcc agggataagg  540
ataaagacaa agagaaggac agggacaagg gaaaggacca agacaaggag aaagagacga  600
agcgggccag tcgccgcccg cgagacaagt cttcgtctac ctccaacaac cctacttcca  660
cccagtcgaa tccccgcaa aagcccaagt tagagggtac gccgccgaag caaagccctg  720
acgcggcccc tgccgtttct gcagcagtct cgacagcttc agactcggcc ccagttcttg  780
cgcacacgac cactgtttcg gttcctactc cgcggcctag tcccccaagt gcacctgcat  840
cgcttccggc gaatcactct gagcttccac ctcaaccgca gatgacccaa tctcgtcatt  900
tcgatctgac ctctcagttg attcaccctt ctcaatccgc tactctccaa gtttcggctc  960
ctacaacgtc gccgccatac ccgatgatgg tatctgcgcc gccttcccgt ccccaatctc 1020
agccattggg accaccccct cagcgaagag cggcctaaaat tacgatccta taaggtctgc 1080
atctggcacg agctcgtcgc ctgccgcacc gcctccagct cctgcgtcta cttctttcag 1140
tcctccggcc cgtccaattt cgc                                     1163
```

<210> 2670
<211> 3773
<212> DNA

<213> Aspergillus nidulans

<400> 2670

cttaggtgct gttatttctg tgaattgaga ctgtcgcggc gtctgaattg ttgaaaactg 60
agcatagata gttgagagga taatctaaga tcgttttcct cgatagctcg aggtctcatg 120
ataggagtgt agcccgaaatc agactgctcg aacttcagaa gccacgagtc gtggatcttt 180
agcagcctaa gggccttgac ggaaagagag catggccaga aatctgacgg caagtaccaa 240
tgatcgtaca acagaaggggt agaaaggctt tccatttgggt attgttctcc aagagcatga 300
cactacaagc cgcagcttta ctatattaga catactcggt agctgacgcc cagatattgt 360
gactgcgggt tgcttcggta taatccacag attgtgtgca cagtgttata cctaaaataa 420
agtagtggag tctccgcgcg atgcggggcg cttccttccc aaatataagg aggggcccc 480
caaccttact agcactccgc cctgggttgt ataagttgtg gatgtttgcg agatttaggg 540
tagaactgtg aagaaattgg ttatgtcgtc ttcaccaaag cgtcaggctc cgccgaatga 600
tgacttgacc gcaccatgac aaacatcccc ccacgttgcg agtcagtaac tggatgccgc 660
catacccgta cgcccagtta gcacagaaca gcagtccgcg atctgctgca tggtgacatc 720
gttcgctccg tgatgcttag aacatcaacc tctactccaa tgacagttgc tccggacccc 780
cgacatctcg cgatccgcgc acatgcgaca gctggatgcg atccaattgc attttcgggc 840
atcattgtgg aagagaaatg attcagactg cgatgcggct caaaacgtgt ctccagtata 900
tgaaaggaga aatcattgat ttgatcgggt ttgggcagac ttgctggtat ctatagccaa 960
gttcgaatac ctacatctgc tctgcgggca ttctacccat cgctcaacct aatcagactt 1020
tcttgccgct accagtgcc a ctttgccact ctcgatttta cagccacgat gcaggagcag 1080
attatatcag cccgttatct cgataagact aagctgatga agttgttgaa agagcggttc 1140
gcaccacaag aatattctgt cacggtatgt tcaactccaag gctcccaggc aaccagttca 1200
tcccgctttt tgcttctcct ctcaaataca gcctgggttag ttttagaaag cttagggggg 1260
tgattaggcg ggtgatagca ttctgccgc aggatgacta tccctgttgt aaaggatggg 1320
tcgattggac gtttctgcaa ggctgggttt atcgctacca acacagcccc cactaattta 1380
gcaatagcgc attaggctaa caagaagcca acagatcagc tgcgagcagat tctacctaaa 1440
acttccggag gccttgctcg aggtgggtca gccttggaaat tttttcaaat ttgcgaagcc 1500

agtgttgccct tcgaaccggg tttttttgcc cgaacattc cattcgttat ctgatgtgat 1560
 ataggaggaa attgagtcgt gttcgccata agaaagcaga ggcttggatt ttctttacca 1620
 atgcggcgcc ggctgactt tcacagattg atccctcggt tagagcaggt gaaggcgtct 1680
 tattttgccc ccataggcaa gggtgacgat ctctttgtat atagccgctg gactcctcga 1740
 gaggcacttt tgcccaattt gccctcgtct tctccagaag atatactcta tctttgatat 1800
 ctcaaagcgt ctttggcact acataccgtc aaaatttcgc agtccaattg agaaactaca 1860
 taccttcaaa atcacagtca actctatcta gcaatggaaa acggttgtat ttcgcccgca 1920
 ccgatccac attgttctca tggaaagtac atggatacaa ggaagctagt tctcctgctg 1980
 cgtgagcaat atggcgcac caattttcgc attgatgtaa gatgccattc tccactctag 2040
 ggttgattcc ttaatgacaa gctaaccgtt aggttgtag ttacaacgag accagtatat 2100
 ggtatacata aataatagaa catcacgaag ttcctatctt actgatgtac gtttccagaa 2160
 tgtctatcga gccttcgctg acacttccat aggagagat cgaagactgt cgatgtccat 2220
 gctgacccat gatgccatca gaaggagggg tgcaggaaga tgctcggcgc ttatttccgg 2280
 ctatgtgcta cagcagtgtt agtttccatt attgagctcg tttccaggca ttttttttg 2340
 tacgtatttt tcaacaaatc aatgacagga tttccattgt acatgtagga aggggtgtatg 2400
 gttgtgtaca tggcaatgcg tggccacagc tacagggtag gctgggcagt gttacctcat 2460
 gcccttcggt ctgctaagcc cacggatacc ttgctggtga cacggctaata gatgcctgac 2520
 ccaccccagt ttttttagtg ctgcagcctg aggggctaag gtgacttggg tcaggcgaaa 2580
 aacgcaactg cccttcgtgc ccagtagccc cggtatctgc tgttctgacc aggcctttcc 2640
 caactcacgc aaggctgaat accgcctatt aagctctcct ttaggctagg ttgaaagtag 2700
 gacttgaggc ttagtgctat atgacgagcc tttatagccc tgtatactcg atgaaatggc 2760
 aaaacaccga aataaatgaa atgccgcttt agaagacgac accaacagca gaacacttat 2820
 acatattctg agttcttaga gactactatc tgcagatgga tcaatacttg ctggagagag 2880
 cgaatgctcg ttcagacaaa atatttaggg caaagccac acggacccag ctccagctcc 2940
 agaccatcga gaaagtccaa gaagacagtg aagtatggag gttccagttc ggagaacgga 3000
 gccaaatcaa tcagattcat gagttggagg aggcataatc ggtatatata ggccagcatc 3060
 aaactgccat ggaaccgcta acatagcgca gcgcagaccg agcgagtgca ttccgatcta 3120

cactattcaa catgtaagat ctggaagac gctagacatt tctcgtgaga tcttcgaccg 3180
 gttattggcg atttatcaag tgttcccga gatctggagg gttctgctca ctttcggatt 3240
 gaggtcatgc gagaacgaat atggatttcc gccgccacaa gtgagagaat caagagagaa 3300
 ttcaatggaa actcgaggct cgcccgaata taaacccatg aagaagaatt gtgcgctgac 3360
 tgcgtataga attgacatat gttatgcggc gaggatgaac gaacggcaag ttggcaccag 3420
 gatgtccctg gtcgatccga caaacaggcg tataccagaa attggtacag ccagcggaca 3480
 gctcccaaga ggccatctca acattcttcc tgggtggcacc gtccctcggca attgagagcg 3540
 atctcatgcg aaacttgggt gatattacca acaacgtgaa ggcagccttt ttaattcata 3600
 agagtattgt ggcagagagt ttggcgggtt ggatggatta tatgtgctgt ttagaggagc 3660
 aactaaccaa aaaggctctgc ggctcctacg gtccacatcg tctcaaaata taggactggc 3720
 cgagactaac gtggtgcgat agtcaacgcg agtgatggcg acgcctaattg aac 3773

<210> 2671
 <211> 1151
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2671

agcctccagc gtgggccgta agtaaccca aacttcatcg tggatttctt cctcgacaga 60
 catccactcc gccgcaccgg gcagatttgc caagacagta tctcgcagcg aagttgcgtc 120
 tgtcgcggac gcagcaggaa ccgtatccag gaatgagcca atatctggga cgagactgaa 180
 cgagttaagc tgtcgtttct gctgtgtgtc agtcgttgac tgcgagtcgg gtggtaactg 240
 gcgtcggaac gactcaatca tttgcatctc ctctggggta agctgaagtg gggagagctc 300
 cgtctcgaca tattctggag gtctgttggc tgaggaggagg aattccggat cgaaagtttg 360
 atcattcaga attgcgacta cagcgtcgcc gtcggacggg ttagagtcg gcggtgcggt 420
 ggttccatcg tggtaaactg aggatgtaag ccagaccca ggtactgagt ttatagctct 480
 gcctttccct tttgtctcgt cgagaggatc gattgtgtcc gacaaattcc cgccataagt 540
 gctctggaat tcgtcctccg tgagccgagg tagctcgaat cctcccgaat gagtcgcgcc 600
 cggatgatctg aatgtttccg cggggacatg aacgttgtga tcgagagaag ccgacgaaga 660
 tggcccggta gtgtctttgt attgctctgc ggctgctaag gctgaggaag atgaagacgg 720

cgcagccttg ccactgtctg agagtagatg cgcggtatct cccgagggag tagaggagaa 780
 gaaagcattt ctcgcgagcc cagaggctga tttttgaatg cgtgaagcta gagactgagt 840
 atcctggcca gactgtgcag ggtcgccgtc gttcctgtct ggtcgttggt tcgtcggagt 900
 attgctatcc tcagaactac cccgcttctg gtgatcggac atggtcgggc ggccgagtgg 960
 tgcggcaccg ctaagagggga acgggagctg tgagagcggc agggctagaa tcctttaagg 1020
 agcttgggct ggcgagggca gtgagtagac agaagtatag ctgtcaggtc ttgccgacag 1080
 cttgtggctg ctacggttcg gatcccttta gtgagggtta attcgacgct ctatgacaca 1140
 catccaatat a 1151

<210> 2672
 <211> 4655
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2672
 gcagagtagg tgaccgaccc ggaaccttgg gtaaggccgt gataactggc ggcaaggcgc 60
 atgacctcaa agttgccggt gtagactttg gcgatcttga tggcggcctc ggtggattca 120
 gagccggtgt tgagaaagaa ggactttctca aggggagcgg ggaggaagcg agctaatacgt 180
 tcagcgagat cgacgacggg gtgggtgatc atattgctga ggaggtggtc gagctcgccg 240
 atatactgct tcacaacttc gacgatatct ggatgcgagt gaccgaggag cgagctcatc 300
 tggccagagg tgaagtcgag aattgaacgg ccatcttgat thtagaggcg ggttcctttt 360
 gccttagtga cgacaaaggg agaatatggc actccagtgc tcatgaggta cttgtcagct 420
 ttgtcgaaga aggcttcaac gtggtcgacg gagcccatth ttgtgacagg aggtgtatat 480
 agagaggaag agagagcgaa gaacgaacaa tcgcttcaag ccagactgaa cagaacccat 540
 cttacttaaa atcttgagag agacagtgga tgtgttaagt tggatctgtc ttcgccaacc 600
 gcgggcagtc gtgtatgcaa ttgcccgcg ctaagttgat actgacggga gattcatggc 660
 tgataagatc tctagccaat catggcatgt aattggatcc accacttgac cgcggccaac 720
 tttccttcaa tgctatcact atgagatggt ctatcagccg tctgctaagg tttagtgtcg 780
 gcctcttgaa tgcattctga taacaagagt gataggctcg caaccacagg atatttattc 840
 acggccatcc tcgcaaaatc accaccccca ttgcttgga ttctatgcca ttgttcgcaa 900

gatggaaagc caggtagatg gacgaccata caggtctcac attcaccag cttgcttttc 960
atgcagaaag cgcaagtccc gctgtaaaac caagagccct gcggaaattt gtgtcatgtg 1020
ccaggaatat ggcactgaat gtgtttttcc gcgcgcggac gacccgcgaa tccctcgcca 1080
gagaaaccgg ccgcggagag tggtccttaa tgcaagatca tccaaatcca tagaacacag 1140
gtcatacccc catcctcaga ccagttctca tgcaaactca gctgccaatc gagacgagca 1200
gcgaccaaatt ggtccccaac cgcattgtttc tgccgactct gagctccaag agcgatcacg 1260
cgtccgcgaa aatgcttcat gtaccgctgc ccaggggtt aggacaggaa gcttccctca 1320
cttcatggga attggcgcag aatccgaggg cgatggctct cacatcatca gccagctgt 1380
cgccgatgat aacgagattt tagaaagcta tctctcgacg attcccttcg ctcaaagag 1440
atgcatgatt ccgacaggct caaattccaa ccgacatttc ggcccagtgt ggttcaatgt 1500
tgtgccagg cgcccttgg gtgttgtagc aaaccagtca tttgctgcct cgaaatgtga 1560
gctcattgag aagtatatgg accctgatat cgaggagtac ataaatttgt gagttcacct 1620
gcggatgctg agataaccct cgttaaatac cttcaggttc tttctcaaag ccaatccatg 1680
cttccctgta ttcgacgaag tttctttccg gagcagttat tcctctcaca aagagaaaat 1740
ctctcctgcc ctgctctgca atctgtacgc caactctctt atttattggg ggagctctac 1800
caagttgtct tccggtcgca ttccagacat ccgttatatc tggaaccagg ccaatgaggc 1860
tcttcattcc gaattatttc tgtcaccggt gctttcatca ataattggta tactcatcaa 1920
cgtcaatggc aggccagta cttcgatgtt cgggaatgga ggcatgggtg gaatggcgg 1980
tgcgttgtcc aatgcgttgg gactcaatcg cgaccctacc ggctggagca tatcaccgct 2040
ggaaaaaagc ttgaggataa ggatctggtg gctgggtactt atacatgatc gctggtatgg 2100
cggcttctgg attaccgctg cttccactaa cgtgaagcag gtgcagtctg gcctacggta 2160
cgcccttgca cgtgcatcgc gcgcagtagc acgtgccatt tccatctgtc gaagatatct 2220
gccccggctc tgcttcacct agtgataagg ctgctgcac tgttttcgtg gctttgacaa 2280
ccctgaccga cgtgctggca cgctacttgg agcatgtata cagcgtttcg agagaattcc 2340
tgcagaccac caagatgtct gagatggatc tggagcagat cctccgagac tgggaggaat 2400
ctttgagtga caacatgcgc catcttgtgt tccgagggac ccgttttagac atccctgggg 2460
ctgcgaattt tggatcggcg tacctctctg tcaagcttct cgttcgccga ctccaactca 2520

atatgaacaa gcgagccctg gactttgaag atgatatcgt aactccaatc tatgtgcatg 2580
 cccagagagc ggcagaagag atcgcttata tcgtgcagga actagacgaa agtcaattcc 2640
 gtggattttg gattccagcc cagccttct ctttgacctc tgcaaccatg ttcttgctcc 2700
 gcagtgggtct gcggatgagg aattatggcc gtaacgcggc acttcagact gtcggggaca 2760
 tgataaacgc cctccagtct catcgccaaa actacaattg ggatcttgca gacaattgtt 2820
 tgactcaatg ctctgaatta cttgagagga ttggtgcagc tgagtccaac aggagtatag 2880
 aagcaccaga gttctcgagt attccgatga acttagacga tctggacata gatccttctg 2940
 tcttgaaga gttctttggc aacactggct tcggtagtgc tggcttcacg gaaggactgg 3000
 aactctggta gcacagtgcc ggaggcaaga tcgatggatg actcggtagc agtcgttggg 3060
 gacctgagac ggactcgagt tggagatttg acgggcattg gggcttcggg ccaaaccag 3120
 ttctttccca gaatacaggt tctaattccg tcattagtcc cttcccgttt tggcctgttt 3180
 ctaagactcg agttcggttc cccccgaag gccaggtt tctaaccgca tcgtcctcc 3240
 aagcgctat catctactta tccaaacact ttattgattt attgcgaaag atactccatg 3300
 gtgagtggcg cgcggaactg tgtacgaacc gtgaagtaac aggatagatg cggctccctt 3360
 accacgtagc cggttgtctg ttactgttcg ctggcgacag agcgtggcgg cattcgaaac 3420
 ttttactag ctcacctgcg ttcggtgaac atcccttccc aacgatcagc gtcgaatgtc 3480
 ccgaacttgg ccgctcagga acctacattg acagagacca cacttcagag ggcgcggaa 3540
 ttgtcccagc tctagcgtgg ccttctgcaa cgtataatac cgtagagtat gtcctaata 3600
 gtgaagacct agatgcacct attccagagc ctgttgtcca cgggatatac tatcggattt 3660
 cgcgggataa gactggagtg caaaaccctg attttcgcat ccacaacgcc agttgggaac 3720
 catacatgct tcgaggcggc ttcaagtacg gaaaaaacag gcatgacacc gtctatgctc 3780
 cgccgactcc attccttggg gacggaccgc accgcttctt ctttgagctt attgcattga 3840
 atgactcgat tgatacggat aagatgagcc cttggcgac ctatgatgag ctcaaacggg 3900
 aggtctttgg gaaggtcgcc ggttgggggtg aatgggttgg agtggtcgaa aacctcgac 3960
 atcaatctga ggaacgtcgc tgattgatgt ttgcaacgat tcgaagcctg gcttgtttgt 4020
 tgccaggcgt ttatctttat cggaagca atatcgcatg gtgtttccat ccaatggtag 4080
 gcaaatgaaa cacaatttcg gtagagtat tgctcaatct catgataaaa gctagtgtag 4140

acgttggtag actctgagga gcctaagtga caaaagagta ccgaagcgaa agatagtga 4200
gagcttgtct caaagtcagg tatacttcga aaactctcgt cttgacttga tgggtgcagga 4260
agacagatga catattcctt tgaaagcgtg gtttcccaac gacgatctat tgcagatcga 4320
ggatacgggt cgaagctaag ctgcctaact cacgttcgga aacttgaagt cttgaggtga 4380
ggcgtagca ctagaccaa ccaggactag tgggtttctc cttgaatcgt agccaataac 4440
tgctttgtga tagcgccaag aatagaatct gagtctgact ccaccggcat ggccgggctt 4500
tcactcctga attctaaagc tcgagcagca gccacgggca gcttcacagg acctttgcaa 4560
gacctttgac ttgagctcga tagaatgctg gatagcattg acggatcagg tgcactactg 4620
catcactctg aacccatccc tgagcagcag aagaa 4655

<210> 2673
<211> 2532
<212> DNA
<213> *Aspergillus nidulans*

<400> 2673

tctacccggg cattgcggt aaaaaagcga agctcgggct cctaactcat acctttgtat 60
cgagtccgat aattcaatgg attctaccag cacgcctgag gagcaagtat cagaatgatg 120
ttgtgtttgt tggcgagcga tgcttgcaaa tcaaggaagc gatatcaggg acacacctag 180
aggaggtcac tacaaagtcg gacttcgatg cttatatcat ggcggtctaa gtcattaacg 240
tcagcacgga attaccctgg gaagtccaga tgaaggccgg gtctagcact gcggatgcc 300
gcctagatgc acgggacgag ctctctctc agataatggt tcttagcctc gcttcaaagg 360
agctagtgtt cctgtgttat tcacgcgctg ccggacaatt tattcattgt catcgtoeat 420
tgccgagcga tgtagcacc ttcgagagat tcggtcgtaa tattgctgtc gagccgaggt 480
aagccccctt acttgatcct ttgagacagt gctctgacct cgtcataggt ctcgagcagt 540
tgccgtgagt gcttctagcg actactttgg cgtgttcggt ctgaaagctc ctcccgctgt 600
gcaagctcaa atgttagaag atcagttgga tcccgaggca gaggtgcgaa cagaaccatc 660
gtactatatt gaaggacccc cttaacactt actgtcgact aataggagcg attttttcgc 720
cttgatggcg acatcatctt catggacttc ctctatccga aatctgaaga tggcgataag 780
atcattcttc ttctcttggt gtctcacgag cagaccacac acgctgtatg ctacgagtgg 840

aatgcgcatc agagcctacg acaatctcat ccccggtgtca ctagaaagtc gttaccagct 900
gacgacaggt tgcctactat gctaattcca ttgaccaagg cctcatcttt catgctggtc 960
actacaacta cgatgactgt ctaccggaat aagctcgatc tcccaggacc acctatcaag 1020
tatccaatcc ccgttctga ccgtgagcag cagaagtcgc ctctttggac ccgatgggca 1080
cggcctctgc gtaatgcagt gtacaaccag atgcatgatg acatttacct ctgccgtgag 1140
gatggaagga tagattattt ggggtgttga aacgaagggtg aagtcgagaa ccagattcag 1200
cttggatact tgttttgca tgtcgacgct gccttcgata tcttagatat cggctacgag 1260
ggcggtgatc ttcttctagc cgctggtagt actggggatg gtgggctctt tgtccagaaa 1320
gcccagagacc aaccccgctg cgttcagaga ttcaccaact ggtcaccggt cacggactcc 1380
gtgattgtaa agcaggcccc cagccagaat acggcggcag actgtgttgt cggtgatcgt 1440
ttgttcgttt gctctgcac atctttcgga cgcggggctg tggttgagct gcgacatggg 1500
attgaagccc aagttggact attgatatcc ctggaggaac tttcaggagc cagagacata 1560
tggtacctac cggacagcat caacggcggc gttctcatgt tgacatctga ccctgtgtct 1620
tcagcatttt tatatttacc gactgatttc actgaagaga tatccgctat cgacgaagcg 1680
gattgtgggt tggactcaaa ctgcgcgact cttgctgcag gatacatcga gccgggtatg 1740
cttgtgcaag ttactgataa agcgatattt atgggcgcaa cgacggatgc acagttccgt 1800
tctcgagtg acctccatat tgggtcaaagc gcccgcgcg ctgctgtgca tggcccaacg 1860
aacaaagtta ttacggccat ccgcactcac caggaattac aaatacgttc taaaagaatt 1920
actcaactgg gcatcgatct tcagttatcc gaaatcattc cgccgttcaa tatcgactac 1980
gaaccgatct gcataacagt tgaggaattg ggcatgtgta ctttggctct cattggcagc 2040
ggcgatggca gggtgctcgt ttatcgcat gatgatagct tcaaactact ctttgacttc 2100
actgtgaaag tcgagagtga tgatgacata tccaaggcga ttgacagtct agcagtcatt 2160
gcccacgcaa aggggacgct tagcaaggca gtctgtctct gcggcttgag gagtgggttat 2220
ttggttatgc ttgatatcgc gatggatgca ataaatatca atgcgccctt aggtaagatc 2280
tgtgttgtga tatcttgctc taatcgagac gggtttacta atgcatagac gtatagatat 2340
gcggcaagcc acaatcaaac acctgggata tacttctgta caagtgcaga gcaccgtaag 2400
cactggttta atgacatgcg gtaatagctt ctggcgatta acatgctctc aagagaatga 2460

ggctagtgac tgtgctattc agcggatatg gataacagac cagaataaag aaagtctccg 2520
aatcattaa cc 2532

<210> 2674
<211> 2028
<212> DNA
<213> *Aspergillus nidulans*

<400> 2674

tgcgacaaca tcggggccaaa tggcgataac agagttgctt cttgaacatg gtgcgaatat 60
cgaatacaga tgccgcgagg gttgtactcc gcttctgctg gcagcacaaa ataaccagat 120
acctgttget tgccttttga tttcttgagg tgcagatatt ctggccgaga atatatgggg 180
caaaagttca atctacgtgt ctttatgtga aggattttac gaagtgcttt acaagaaatg 240
ctccttggat cccctaaaga gtccattctt cgcaagagta cataaagaag ggtatgcaag 300
atgtcttact ggcggcaacc aactattggc agtcatctca gtgggttcag tatgcgatct 360
ccaggggtgc tgataaatta tcaaaaaaag caaatatgac ccaactgcat tgcttgttgc 420
agcacgcggt gcagaccag ccatagtcca actacttcta gagaatggag cagaccccaa 480
catcaagaag ccagatcca cagtttgccc caaagggtcg gcaatcagta tctgggtact 540
ccaaagacac gaccaggcca ctaaggatcat gactgcctag tgctggccct aatacaaatg 600
gttcacacag atcgcgtgac ttcaaggcgg cagtgtcac ctactagaat gggaagggca 660
atggttttgg cgtccgtaga tttttgatag gtaggtaaac tctttgtgga tccacaggcc 720
actctgggca tagggttact gtaatacaag ccagtagaac agtagtattg gatgtggcaa 780
tacacttcta gtctaaagct ttagtaatc cttccaagtg ccagatgact cctcatcgca 840
gtctctatac ccaataacca ccaagctata gggctcgaaag gtacctgact gtgtaggtag 900
gctaggaaga atagaccctc tctcaagaat atcacgtcat gcatgcactt ggtgaatgat 960
gagcaacaga aaatgcgatc ataccgtgtc atgttgccgg agagtttgag tatcggatca 1020
tctctataga tgagggtccg gtacgggcac ttgctaaacc ctagcccggc ggccagctgc 1080
atttgccta taaaacggca tcaaaccagt tcagaactac tcatcaaagt gcaacaaaac 1140
cctcggccta atgtgacttg tgcaatacgc ggctctggat ggaactcact ggccaggtct 1200
gctcaggagt acactaaacc taccgaagca gacaacgaat aagtgttgaa tgtacatagt 1260

tgaacagcga agtgcctacc tactcgccct aatcaattgg aacgccatct tcggatcggc 1320
cgctgtgtcc gcaaaacaca gcccctcctc tgtcgcacct aacatatccc agcacaggat 1380
cttcacgtcg aatggcgatg actggacatc atctgatgaa gggcttgata cgatagaatt 1440
ggagtcctgc gtccgctgcc gctgagacac agcaacgatc gtgctcgtcc cggcataaccg 1500
ggcgggtgaa ggagaacat cttcttcacc tgcgcggttc gogaagacaa tgatgattct 1560
cttgctggcg tctgtgttac ccacgtctgc atccgcgtca tcggcggtcc tactgtgggt 1620
catctgcttt gtgattagag gcataaatcg ctggatccag tagttgaatg tatctatctc 1680
tggcttctct gcgagggcgt cgagttcctc acgacttagc agcgtttagca ggccatggac 1740
agaatgacga gttgggattt agactcgagg acacgggtgcg cgaattcgta ggctgtgtaa 1800
ggagcttcaa aacggtaagg gtttatgtcc atgcatattc caaatgaggt agctatttct 1860
ttgtccggtt tgtcctgcga ctgaggtggc ggaggagaa tagcggcttc accttcggct 1920
ctagcgttta aagaaccaga actctccttt gcgttgggga atgtaagctg gtggaatctg 1980
agttcggcgg aacctcctca gcccatgttt cgtctgtgta gtagagaa 2028

<210> 2675
<211> 1216
<212> DNA
<213> *Aspergillus nidulans*
<400> 2675

gcggattcca gatcgatgat cagacaaatc cgcttgctcg ggccgcggcg agagtcgaaa 60
ttctccagaa gctaggtgcg tcattgctgg agaataagaa tatttttggg cgcgcgggaa 120
gaccagggga tcttgctcgt atgtcaacac ttgtcacggc ctgcctccta tgatgcgggc 180
gagcagtgtc atactaacia caggcccatg cgaagactac ttaactcgca atggaagcag 240
tagcctcgac tacgccgagc tctggagtac cctgcagaca ctccctcatc cgatctggcc 300
gtcggaccga acgaaggtag ccggaagcc cgtaggcgac gcctggcctt taatggcact 360
acgcaagcac gagtcaaccg ccggcatgcc ggtcgagaca gcgacaattg ctcccttcca 420
caaactgacc cagtggctgg cctactcact caaagtcctt ttcgagcggc tgctgggcac 480
cacatgggcg aacgcgcagc tgggcactgg actgcctgag taccgcaatg gcgggctctt 540
tgtcgacatg ggcgtgcttt cgctgaaacg cgaggcgatg gaacgaggac tccagaattc 600

gggcggtccc ttaccctgct ttggtgccgg ggatgacgag atcgtggagt ggcgagcgat 660
 gacggttgcg ctcttgatg tcctgcacca gcggtatcctg gagagcggga agtttggcga 720
 tgtcaggcta tcctgccgc agattctgga ggctgggtcc tggaaggccg ggagggaact 780
 tgcggcccag aatcggccgg agacgagatc gagcccgatt ctgaattcag gggatgggac 840
 gttgttctga aatctgttag tctcagacag gggtcagttg caaaattgga tatagttctg 900
 cttcggggct cgtaaagtgt tttagaccaat catcccagac ggaacaaata tcagcatgtg 960
 catgtgcatg tgaattgatt tcccgccttc ttttccctc tttgtccct cctttttttc 1020
 tttacttatt ttttttttt tatcaatcaa caatagccgc caagaccac acctggagat 1080
 cttgagctcg agtatacccc gcggtgtata ttaccctct acgtttggga gccgaagca 1140
 tgacatcacc gctagatgtc ctttgcaaga taagcaatgg taatgattgg cgttgctctc 1200
 actgcggaca gacccg 1216

<210> 2676
 <211> 1746
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2676

acctatcgta cggcaatagc ttcggtattg gctgctcccg agtcagaagc caaacagacg 60
 cacctgtttt ttctcgacaa ttccatccaa gtctttctca ccatgacgat gcagcgggtc 120
 ccgatggcgt cgggagtata ctgcggaggg atctcgattg ctatacggtg ggggtccctt 180
 cttctagaca acccagctaa cgccaactag tggcctcttt cttctccacc ggcattgtct 240
 tgcccaaaca aaagaccgt cgggcgatgt cgactatccg aagggggcgt atcccagctc 300
 ccgtgccgog ctggatactg tgaccaagat cgtcagtgac attgcgacag cgcgccagca 360
 gctctcgccc gaccggctcg acgcgtatcc accgacctat gcctacctcg ttcgggcggc 420
 gctgcagtat atccacgaag agtgccagcc gctgacctt gggtcgtggc tgtgggaggc 480
 ggaaaagcgg ctgcagcatt cgcttgaact gctgaagcgc agatggcggg gacgtcatct 540
 gtcatacatc ctagtcttca ggcagaaaac tcaggcagga tttcaggcat atcttagaca 600
 gtgcttgcat gatcaccagg gccgccagac agccgtgaca ccctggatag atgtatatag 660
 gtaacaataa taataataat aataataatg tttatatatc actgtgtgct ttttctaggg 720

atgctctaata tgcctgagata ttggctaaag atcagttcac caagcagttg ggcaagtgt 780
 cacctagcac tctagatgca ctctaggtat atatccactg attttgcatg tcaaaagtcc 840
 catctgacat ctttcagccc cgcgtctgtg gtctacttgg tctactacgg ctgtcagcag 900
 ttgtgaagtg ccgttgtgtg tcaggccatt gcggagaatt ccgtcctcaa ggaagaaccc 960
 cttggaccat agttcccagt cttttgttac caacacgatt tgatgggcca gatgccgaac 1020
 aggaagcgat gcgatgggga cgacatgatt cgtttatcgg gtgcttgcca atcgatcggc 1080
 gcccttctgc cccccgcgtc cgcttaaat ccaaggatcg agatggctct gccctggaa 1140
 gagtagtggc ggcggtctt ggagagccct tcaactatca atgatacgt aatacgacga 1200
 tggcgaggga ttgcacgtgc gccacgactc tctcgccccg ctggagaaac attcttgaa 1260
 agtcttccaa gaaagtcaac ttcactcgcc tctgcactg cagggtgcaa gttcattctc 1320
 aatccatcgg ctctagcttt gtctagcttc ctgaatgcag ctcttgtgg aatccaaccg 1380
 tcttatcccc tgagctcata ctgagcatgc aggaatacct ctccaccagc cttcggcaac 1440
 caccattgcc tgactcggag aagaagcgat tgcgcgaact gtccagggtc gtctcttcaa 1500
 ctgcgcaata atccctactc gtactagaga gactcatctg ttcttctatt aggtattact 1560
 gtgccatccg ccgctcctcc gtacctcaag atcctgacgc atcggtgact cagagtgagc 1620
 ccgagaacga atcccgcttc aatgtcgccc aacttcgctc tgatatcacc ttgaccgctc 1680
 ttacgcagct cggcgtgcat cgacttgggt gcgagcggtc gtttgcctcg ctcatcgacg 1740
 gacaca 1746

<210> 2677
 <211> 2018
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2677

cgtaactgtt tggatcagat acttcaggct ttctgcaagg ataacagaaa cgggaccttg 60
 aaaactgttt ctccgacacc ggcaatccgg ccagatgtcc aggactccag aataccctcc 120
 ggcgtgggag ttgacgcgac tgacgaagtt ctctgacata ggtcgcggaa cctaatttgc 180
 ccgtagagcg ggtaaccacc gagctcttct agcttcgctt tgacctctct ctgtggccat 240
 cttggtacat ttggatggac gtaagtccga tccaacttga tcataacgaa ccagttgatg 300

gtagtgtaa agtttgggat aatgggtccag aaggcgtgta agtacgaccg ggtgtagatc 360
 tctcctggct tcatcgtggc agtcatctct tttgatgggg tggatcatgcc gaaaagacac 420
 atgtagtcga ccgtcatttt gctcttgctc ttgactaggg ccggcgaggc cgggggctct 480
 gtagccgct ccatctcttt cagggtgatt ccgtggaccc catctgcgcc gacgactatg 540
 tctccgggtg aatgctcccc gttttcgggt gtaaccgtta attgtccgtt agattctgtg 600
 ctgcgggtcga tgcgacaac tttggcccca actttcacct ttgagcgtcc ttctagagta 660
 ttgaagagag cgtatagcaa gtttcgacgt gtgagcgcgg agaattgggt accaatcctg 720
 gataagttag tcctagcact atcaagacaa agactgtgag gaatcactcc gtaagatttt 780
 gagcaaacat cgcgtgtcga tgggtatatc cctcaggtag ccctacattg actgcctgta 840
 tatcattcat atatttccac aaatgatcga ggacgccag ctgggtcagg atgcggcatc 900
 cagctggctg gagggcaaca gagccaccaa tttcgtcgt gatctctcgg ggcttttcga 960
 gaacaacata gtcgatcccg gcttttctca ggcaatgagc gagtgtgagg cccgagacgg 1020
 caccgccaat gataatgacc cgcagctgcg agttgtctct atcgaatgtc attgtggata 1080
 gatcctcggc gtatgagcag aaagatatga atataacatc aaagacagag agtgaataga 1140
 gaatatataa ggtgtccac cttgggtgtc tttccatcca ccgcgtatgt gcgagcgttg 1200
 atccggttgt ggaagtgttg cttttttgtt agatcttgtt ttcacatcga tgtttgttgt 1260
 tggagccagg atttgctacg gcgtgatcac cgacacaact gcaaacaat caattcaa 1320
 taccctgtgc cttgaagcaa tatgttcac cgactattg tcgtatcgtt acccgagatg 1380
 cgacatccat ccataagacg gagtttctag gtgccgagcc acttgctgtt gtgggagcag 1440
 gatacttagt cttaaccaaa atactcgaga ccggtgacgc ttctagcgtg atgcgagtta 1500
 tcggcctcct actttcgtg tcgttgggct ttccttcttt aattgggtca ccaagccata 1560
 ctccaatctt gacttgggcg tatctgccgg ggtgagcatg cacgagcgt cacagctgac 1620
 actaacagtt ttccgctcag catactgtga tgtactttgc attctctgat tgaagaaatc 1680
 ccgtcgcac aagtgaagct ttaggatct ctgcgcgttg gtttgcaa atgagcagaaa 1740
 ggcagttgag tctgcgcagt tcctttgcac cagatagagc tgcgggggtt tttgatacaa 1800
 tccgaattgc tgggcagctt atattacca aaaatagagt caggaaatcct attgttggga 1860
 atggtgctcc ggatatggtt actggagacc cccttgccgg gctaccctta tttgaagact 1920

catattccct gccttcttgc aatataatca gctctcctaa atccaaactt cattactgcg 1980
gaattcgata atcgtgacaa ttttaggtg ttgccccg 2018

<210> 2678
<211> 1168
<212> DNA
<213> Aspergillus nidulans

<400> 2678

catcggaggc atgacgcagg taccgttata tttctacggt attcttcttg ctctcggctg 60
gaacgagatt gttgctggta agagttagct ttgtcaaacc ctctttttgt tgctgaccgt 120
tgatgccagt tctgcgtaac ccggcctact tcttctgct ctctgatatgc gctgtcggcg 180
catacgtcac ttaccagctc aacctatggg gaccgatcct gaagatgacg gaagcggcat 240
ccaaccaggc gatgatcgag ggtaagcgcc ggctgcgaga gtttctcgag acttcagata 300
ctgggcgcca ggcgattgcg atgtcaagct ctggctcttc gcgttctggc aacgaacacg 360
agatgtcccg gctcaacaag caggggaaat cctcgacgga cgaggacgtg gatgacctat 420
gagctattga tgtgtaactc tacgtaatta gcatgtctat gttcgaataa ataattatat 480
tattgcgtta gacctgtca actgttctgg ttattctggt taatgtatgt acgtctccgc 540
ttgctggcgg acttgctccg aaccggacgt cccccacctg gctccgattc tcatgcatta 600
tttagttgcg ggacatgtgg acgtgctgct ggaggcta at cgtgacagct ctaccgtgct 660
ccagactgct taagattttc atcaacagca gacgaccac aactgaccat tttgaccagc 720
tcattatgac tactttcgac ctaccagaga catttgatga cctccccaac aagcgccaat 780
actggcctgc tccgaaaggc tcgcccgaag agggcctagg catgctccgt atcctgaccc 840
cggacatcgt tgccaatgca gcccgccaaa tccaaacggg cgagcgggta tgtctgaact 900
gggatattga gaacttgaat cctccagggt ggctaccctc atgcagatga gcctgttctc 960
aactcacaaa agggcaaggt ttcaaacgca agccctttga gcacaggata aaatgggtcg 1020
cagaaggcgt ggcttttgat gacgaatatc acttcaatcc acagcagtca tctcaatggg 1080
acggcctccg tcaccacaat gggcccgcac caacggccga agatccact gccgactttt 1140
ctacggagga acgagcggcg aaggaatt 1168

<210> 2679

<211> 1111
 <212> DNA
 <213> Aspergillus nidulans

<400> 2679

```
ctcccagttg agatgtagtc gttcttcgta cgcgcagggg cggccctaaa actgtagct 60
ggtatattca ggtctcagtc acaggaaca tacagtgaag attatcgtgc ggatgttgct 120
ctcaaagcca gctgtgcgga cagcttcctg gtgagctttg ggagcaccgc cctcctcaga 180
aagaatgaac cgggtacca cccagacacc ggaagctcca agcatgagag cagcggcaag 240
agagttgccg ttgaacaggc caccagcagc aacaacctgc acaggcttgc cagtgaaga 300
gctgatcttg cctcgcaga gtttggccac ggtggggata agaacagttg taggaacatc 360
accagtgtga ccgccacctt caccacctg ggcgcaaatg atatccgcac cgatatcaat 420
agccttctgc acgtgtttgg ggtggccaat catgttcatt tagagaactc catttttctg 480
aagtttatcg acaacggcct tgggaggaac accgacggca gagacgaaga gcttagcacc 540
gctctcaatg atgatgtcga cgagttcgtt tagcttgccc tttgtgtagt cgtaacttta 600
acggttagca gacatgcaac gattatgctt cccaacagta agaacgacag ataaacgtac 660
ttcgtcttac gcgcgtacc accaacttga ggaagcagca gatcaacacc gaaaggagcg 720
ttcttctctt tcagatagct cttgagctcg gcaacttgct cacggagcat gtcaggagt 780
tatccgacgc caccgataac accgagacca ccagcgttgg tgactgccgc agccagctta 840
ggcccagcag ccacgttcatt tcctgccagc aggacggggg ggttgatctg gagcagatca 900
gtgagcgtag tcttgatctt ctctggaagg agtcagccga agttgccaca ccatcacatg 960
tgataagaac ctacgagggg aggccatggt tatggaaaac agagaagcaa caaagggttcg 1020
atataagggg gaaagaacag tagttcagta ggaagaggga agtaggagga ggataactag 1080
gcggatcgag actgaaaaga acagatatag a 1111
```

<210> 2680
 <211> 909
 <212> DNA
 <213> Aspergillus nidulans

<400> 2680

```
gacacaagcg ctatctccgc tgctttcatg gcgactcctg gcgctgcgct gtgggcatc 60
```

gatggcacat tgctggcggt gacggcgaca aagacggggg cgccgcgttc accggtctat 120
cctcatacca gttagctacg gcgctctatg tatcgagggc tggattgata tggatcgctg 180
acgtacacca ggccactgac tatgtagctt cgcttgcggc cagagcggtat aatcctggac 240
attcgtgaac cgctgcgaga tgaactctgc ggagaacacg ctctcgccgt atccgtctgc 300
tgggagaact ggggaccgcg cggatcatggt tctatcagcg atgtatacct cgtagccgtg 360
ggaaaggaac caagacgccc agccgcggcc gccatcaggc ttgttgagaa agttctactc 420
caatcgtagg catccgtagg tctcgacacc accggagaga tatgggtgag agggccgcac 480
cgtgccggtc tgagcaccac catgtagaaa cacaatcgga tagagctgtg tgggtcccct 540
tgccggcgag agcttctcga cgtacatctg gttatgcata atccagccat cgggtggtgtt 600
gacgtactcc ccgccgacgt agaagtatga gcggcgatga agagcttcgg ctcatggct 660
gtcagtcgca gcaggggtaa aagctaagct gccttgaatg agggcgccga gcgcctgcag 720
gaggcacgct gcctgggtga gccgaaacat cgcggcgcg cgcgacgtga ggcggaaagc 780
ttgacagttg aaaacacgac agggatctga aaaggcgaag ccgagccggt aagtatccct 840
gacagggctg tcaagccgcc aatatgtact caaataatct tagccagaca gccagagca 900
ctagttatg 909

<210> 2681
<211> 1052
<212> DNA
<213> *Aspergillus nidulans*
<400> 2681

atatattctg taccgagcct tcgctgtggc ttccaccccg taagaatgtg gtatctagat 60
acaaaagaaa tgcgcataga accagcaaag ctggcatgtg aaagtgacct cccattata 120
accaattgat cccatcggca aagagagcga ggttagatta accactcgcg ctggggtcct 180
ccctctcaa aaacgtcgga tcgacattga tctcctctc aaatttcgtc caccagtcac 240
gaaaagcctt aagcggcacg acttcctgcc cccgattcga cggatcactc gacgcgaagc 300
tcgccaggaa attgaacgcg ttccccacga ttctctgtgc cagcaccttc gtagtaatcc 360
ctttctgctg cggcgtctgc ttgatcaaat ctgttgatgc cctccattg cctccattcg 420
cagcctcaag ctgcgcaagc tgccggcgcaa ctacctgcac cggctcaatt gatatcccta 480

gcgtcaccat gccaccattc cggcgctcta ccatctggtc tccccctgc gcacctgtgc 540
ggaccgacgg gctgacttta ataacagacg acggcttctc atttgcaagg ggcccaatga 600
aacggaattc cgagccagga tattgaatgt agatagcagc agctgtgtct tgcgggagga 660
cggtgcccgg aaggaagaag acgactaatt cggaaaagga tggatgtagc gggaagttaa 720
aagcaaattt tgtggcttgc ccatttggct gagggccaac ggcgacgatg tctgttaggc 780
agggccggcc gggaattatg acggagaaca tggtgactgc ggatgatgga ggtatatggt 840
aggtaggtag gtaggcaaac ggcgtttagt gtaagacgtc aacagtccaa ttgtaagcca 900
atgtcatgta taggagttgc gcttcaaaag catcgtgttg tgcagagttc gtggagattc 960
taggtgctgg atggaagctc agagaagcag caaagaaact cgaagcacca gtgacgaaac 1020
catgcattgc ccttatcgat aagggttgc gt 1052

<210> 2682
<211> 4696
<212> DNA
<213> *Aspergillus nidulans*

<400> 2682

ggctctctaa gtccgtttgc tattgaggtc cgcacagaca tagatgtgga gaatagcgga 60
caatcagttc gctcttataa gtgatcagat acacggctct ttttatgcct ctctcttttc 120
taggcgcagg cactatagct tttatattct ctggccgcca ctgcacgcgc ggctggtcgc 180
tgagataatg accttgcgcc ccagcaatga tctgatgacc tacccttgta ctgcctgcta 240
taacattccc gctgtgatct cccaccctag cggtcagacg cccaagctg aggaccggag 300
acacgtccac actccagatg gtggctatct gcaagttagt aggtacgcat atacgaaacc 360
agccggataa cgctggtcgg tccagtcttg ctagtcttca gaaggtcggc ggtcatttcg 420
attaccaggg cagagattta ttatatctgc tacttcattt atttatgatg gctacggagt 480
tcaacgcaat gtattatacc ccattcagtg ttttatgacc taccttgta cgcagctgtt 540
ggctgtatac ggagtgacca aataatcact atctttatat actcttttcc atgtttaatg 600
cgcatataca tttcaggaag agaatatagt tacgagtggg catcatgagt cttcattagt 660
ctgtctgcgg catctactta catattagt ggctgtttgc gcagtggaat tctgaaggta 720
tcaaacaaat gtcagcatga cctcgtttca atccattctg cattgaggct gcagcacgtc 780

aggaggtcaa cgtaccagat ggccctcggc aatgttagtc gcgactcgct ctacccccctc 840
 cgaaagacct tgtacaccag catcccactg ccgaatatgt ctccccgtag cagtcgtatt 900
 tgactogaag tagattatac catcaatctg gtcaatactc ccgctcagcc gcccttgttc 960
 taccattctg gctgcatacg ctccggcctt ctcaccagcc gtcagatccc cactagcttg 1020
 cagacccaga atagcgcta ggcgggtcgg tctttatggt ctcgtagagc ttgctcgcgg 1080
 ccacgagatt gtgctcaaca acagctttat caagtactgt tgttcggtct gcggtttggtg 1140
 cgagctgggtg cggggctagg cgctgcgca acgcagatac ctcttctgag tgagaagcgg 1200
 tcgaggaaca tttctccag gatgccgaat tcttcaacgg aggtcgcgcg gtcattcttg 1260
 tacagtgttg ctagagtgcg ggagcgttgt ggaccggccg gtgcgaggac agcgcagcgg 1320
 atagcggccg caagggttg gagtctgtca ctctcatcta cgccagcggc gaggctaaca 1380
 gcgaagtatt cctgactggc gtccagaaaa cgtctgcggg catcttgaat ccgagcttgg 1440
 gaaagccgga agtgcagttt cagctcgttg tcttcgatct tgctcggcag gttttttatt 1500
 ctgttgagga atgcctcggc actagttgtg tcgtcttctt caaggatatag ccgcacgatc 1560
 cgaatccaaa gtttcacttt ggccggagtca gagactagtc gctgtgaact atcaatgtga 1620
 atcccctgga gcgctcttgc agctgcgatg tactcttctt ctgcttcgta tgogtctgct 1680
 aggatctcgc ggatttgggc gtcttgctcc tcgacggatg cggatcggga ctggaggaga 1740
 ttcacagcat gttgggctac tttgatttgc gtctcggagg acagttttcg tagagtatag 1800
 atgaaggagt cgaggatagg gcggggcggc acgatgctga ggtcttcgct taggactgag 1860
 tcaaggtagt agatgaggtc gtcggcaagc tggggttcgg gagatgccga cacggtttcg 1920
 gagagaaggt cgttgtaaag ttgtagtttg ttctggggac tcgctgatga ttcaatctcc 1980
 gcaagagcgg agattatctt ttgggatggc atggggaagg tttggtgatg agttgaggct 2040
 ggggaatttg gagtgggga tctaattgct gcgtgaagct caagcctgaa gatcaatcaa 2100
 tacgcactta tcgataagac gtatctctac aggagacagg agcagccact gccgcattat 2160
 tgctgcaaga acttacttta agaatttttc tctggtacct attagattca taaatatctt 2220
 gaatcacagc agtgcattga ttgcaagata tagtcattca tatacgataa cttagagaaa 2280
 tacaagagtg tgcagattga cagatgacgt tacgtatggg ctggtatata ttattgctag 2340
 atatcctgta tttagctcct taacttacgt ctccgattgc tggccaaaga gaataaacat 2400

ttatgtattc aaactcttat ctactgcag ccttgaatt gcaatgggta tgatttagcc 2460
 aactataagc tttgccatgc ccaaaaagct gtctgtctga atggtagtac agcatcttca 2520
 ccgcctttgt aggacccgca ttttgcgatt ctttcgactc gggcggtgca tggatgtatt 2580
 cctgagccgc ctttgcacat ttcaaccaac aaccacactc acttggcact tttctcagt 2640
 gagggctttg ctgctgccac tcgctcttac ttgtatccgg tcgcacggta gagggctttt 2700
 acttaacgca tcatgttttc ccatatcaaa caagagcatg atgcctcctc accttacatt 2760
 aaaccggatc ccgagaccaa agacactgtt ctgcgcgaca tcgacgatga agacgtatat 2820
 gaggatgatg gtgacctaga ctttacaac gccgaccaa gcttatggct ttcccgaata 2880
 ccccggtcgc tctgggagca ttggtccaag ctggatgatg atgatgaaat tcagatcggc 2940
 acagtgagaa tagaagggga cataaacaat cctaaaagag tacggaatag ttctgggctt 3000
 ttaaaagact ttaacgcagc taaccgagtg aaaccatag gtcagtttac gcctcaccga 3060
 aagcgaggag aaccgcgaca ttccaagga ctatatcttg tcgcgcgaga cgctgaattc 3120
 ggaaaacctg ctacacatga ccagaatac atatctcttc acagaaaagg acattcctgg 3180
 ttacgaaaat cggatggtca cttttggcga agcgaggtct gctttatacg agtcgatgaa 3240
 gcgcgatgca aggagaaagg agcggaagaa gaagtgggag ccctatatc gcaaaactat 3300
 tccgagtatg tgtagtccgg ttaaaatgaa gcctgtgcgc tgactcagtg gcagagcgaa 3360
 ctgctttggt cggacaagtg aaagaagagt tcaactgtct tcctgtcgaa aacgaagaat 3420
 tcagaatcct ctcagagaag aaggctctgg aagctctgaa gccgagacga gaagttaaat 3480
 acgttgataa aatgccggcc aagtgtctc aacaaggca cgctctgcct ggagagcagg 3540
 gcgcgtttgt ggtatgtccg aatttgctta tacaattggt ctatggctaa ctatgtcttc 3600
 agcaagctac gaagccggcc aaactcaaag cgcaggaaaa caagaccact cgtatgccgc 3660
 agaacgagct gttggatctt atttaccagt gctttcgcga atacagatac tggccattta 3720
 agacactcaa agctaggctt cgccaacctg aggcttatct taagcaaaca ttggagatga 3780
 ttgcgcacct agtgaaatcc ggcgatttcg ccatgacgtg ggagttgaag cccgaggcaa 3840
 gagagagtaa ctactcgaac gctatggacg tcaaacaaga agccgcaccc ggtttggact 3900
 ataacttcga tgagggctcg gaaaccgatg cgatggcatc cggcgtggat aacgatgata 3960
 cgcaattcga gaacgtggtc tagagaagca tcttcatttt ttccaatgta gcataatgca 4020

cgttcggcgt ctcccggtt tatgggttat ttgattacgt gtttgggttg ttattcttat 4080
 aatagccaca tcattatata tttatgcagc tctctgttta acccattcta catcataagc 4140
 taccagttc acgtagagcg atatataagg ttagtgcac gtgattattc aatagaggat 4200
 gagcgccact gcggagttag agttgctttc atcacttctt gaaacaccac gttattggag 4260
 ctttaacttc ctaccgcgc aaggaaaagg tcgaaggatt tacaccacagc taactgtgaa 4320
 acccagactt gcggtcaaaa tgtccgaaga tcaggactta atggccagga tcagtcagct 4380
 tgctggtacg cgatttgtgg gatgcgtctc cctgtttcga tagctaattt tcttaggcca 4440
 gatcaacaga ttcaagaatg gaaatacacc cgttcagtcg gcccataatg aaatgcactc 4500
 caattcccat gtctcgcgac atacttctta tcgaggacga cctggttggg ctcttatcgc 4560
 cggacgaccg tacgggcgcg gtcgtggtgc tgccctcac cgtcaccgca cccttatcct 4620
 taacaactat gcgacgccg cttccaaaag ctgactcct cggacggta ggcaagata 4680
 ctacgagaac agtgcc 4696

<210> 2683
 <211> 690
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2683
 acccagggcc tgctattct ggtgcgacca cagccgaaga aggcggatcg ggcctgatca 60
 aggggtctcaa gaaagtcaaa actccagagc ccgagaagcc ttacgatccc tttggcggaa 120
 tggttccaaa taagagagac tattatacat tgcgagatta ctatccatcc tcgtatcttg 180
 atcctatccg tcaagataca cggatgctcg cgggcggata tgaccttcaa gaatattact 240
 cacgaaccat gctcgaggca tttgcgggct taggttgctt tggtgacgag gaggttccga 300
 tgcgagaagc aaactccttc aacattatga agcctattgc cacacaggga gctgttttag 360
 cggcgggatac tggtagagggt agtgcagag catttcttcg aagatggaaa ctaccttat 420
 ttgacattct gcattgcata gcggtggcgc taagtttttt tttcgttggt ttctcgcagt 480
 tggcttcttg ggttggttat accaaagaac tggatataca ggcgtaaaat aggtgcggtc 540
 aatacatatt ctaaaatcac acagtaatat tatacaagtg ttgatacact atcagatcgt 600
 tccaccggtg atttggtccc cagcttcttg attctgcctt ggacaacatc ccaacgctcc 660

acctcacggt tctcgttaac acggcttgca

690

<210> 2684
<211> 4677
<212> DNA
<213> Aspergillus nidulans

<400> 2684

aggaaaggcc taggactcag acaattttat agaagcttgt aatgcggcca gatcccttta 60
tttcaatctc agcaaggagc ccaacaagga gcgcaaaata aatgctcttt acaccgcgtc 120
cccaggtcgt gcaggtgata atcggaaccc cttttttctg gaggtatgct tcccacttcg 180
ctacatcttc ggtactctgg acggcgacac agaagtgctg cttcaggctg tcaatgtcgc 240
catcgccctc tttggctgcg tagagctgcg cgacgatctg cgcgctgggt ccatggccag 300
gaatgacgcc gctgggagta gtaatatctg cgtctgtttg gccagttgg aagaggagga 360
gagttgtatt gcctagggag aagcaggcac tgcggtgcta ggaagggat cagcctcacc 420
ttaacagttg cccaacattg ttggtgaaaa gggatcgta c gattgcatg aacggcttaa 480
tgttcagcac atcctcataa aatttccttg aagcatggat atcgcgcacg tagaggcatg 540
tctcgaggac gtgggtgagg ggaggtgggt tgttttcagt ggccatgac cgatcctgta 600
caggaacgta tctagttcaa tgttcaaaga gagttctata tcctatctcg taaggactaa 660
acaaatatgg attgagcaca gttgtggatc aagatacagt gagccagctt ctacggagcc 720
cgtcgaatcc atttatgtct aattgattga aaattattgg gttttcggct cgcattctctg 780
gcctgaggca ggctctcact tcaggatgac gctcacatag ttgcgcgtga ccataaata 840
cggactgccg gagatctacc ttactaagca cattagcacc tcggccgagt gcttaaccac 900
tgcttaacct gggtgtaact gcccaaataa tttgttaaca tttccttcaa tgaggctctt 960
tttaagagtc tcgaaaagct acaaactgtt tttatatcat ggatagggca tcagatctca 1020
attatattcg tttgtcgag acgatggta catgatcaag atcgacgcta gcagctctta 1080
gagtgcgggg tcttagctcg gcgtggctta ctctgaattc cgcaacatg gctcagagcg 1140
cggaacggat aaacatttta aacatccgaa ataaagttct gactaatata ctggctgtca 1200
catcaacatc ttcgcttcgc ttcagagtct gtcccagatt acgaagcaca ttcattgaaa 1260
cgcctaacta cgctcctaaa caggtcttag aaagccta at cgttgagtac gattatcttt 1320

tctattaagt tgtttcaatt ttagttatTT tatacgagcc tattcactag taacaatact 1380
tgtaacaata cttgcttctg atgaattctc tctcataagg ctttataccta caattattag 1440
agagagcttt ctctactata gcttcaggtg cttatgggct gatttcatag tctcatcacg 1500
tatactagtg aagaatgtca gaatgcaaga tgccagaatt gtctgaaata tctaccgtta 1560
gttctcgtac ttgttaaaga tggatctaaa ctaggaagtt ggtgaacaca cccgaactta 1620
ccagccttga ttgtagactc ccgcaacagc ttcagagccc aaccaaagcc acaatataga 1680
agatatgtcg ttacgcgtaa atcactcagg ggaacgcatt tccggatttc tgcacgaacg 1740
atatctatct gctgcgcttg acaagaaaaa ctccagttgc tctgggtggg attactaatt 1800
ccaccactgg ctaatggttg ctgttttagaa taggaggaaa cgacgctaaa cttctgtgtg 1860
gacgctcgcg tcggcgtcaa gttagtggct ttgggtggaca agtcgctcgt aaagcctggg 1920
tttagatgcc gtgatgtcta tcatgatatt cattgtaaga aggaggtaaa agagatctat 1980
gatagggaga ggcttgtaaa caaagtctta tagacagga actcccaggt acagcatcat 2040
ctcaaccgtt cactgggggag ttgatacata cgagtacggc gaatgagaga agcctacata 2100
cctaaattgc tatgatttgc taataggcca gttttagtgc aattacaata gtttagactc 2160
cgtcagtgga tagcctgcgg gaaagagatg gacctctagg ccgccagctg tgatgtcggg 2220
agcatcgcac gaaatcaacc aaatacgtgt accaaagggc gctgtgacga tatataccac 2280
cgaagctctc gataaggatc tgtgatgcgt tcggaggagt ctctcgttgt cttctctgac 2340
tgtctgctct aatccagcgc ggaaggttgt cctctacca ctgccccatt ccaatgactc 2400
ggctcctatt catgttagtg gtacagatgg tatagggggc tcgcccccta tcttggttga 2460
tgtactttgt attagacggg actcccatc acgcttctct ggctccgggc ggcggtgcga 2520
atcttgccgc gtcattgaca gccaggtagt gatatagggg atggctgctc ctaaaatgtt 2580
cggtatccat atggtataag cattcctggg cttgagagtg cccggcatgg ccaaggtgaa 2640
acctatgcga aagagccttc cggggaacaa tcccaggaag atgtcactac tgcacaatca 2700
aactttcaca agcaaatata gaccctacg gtttatagct gacgattctg tatctattac 2760
tgtatcatgc tgggggttat ggaagtacag tcctttgtgc tgccattccg tagctcttgt 2820
atggtctata ggggttgctt ctttttaaac agcaatgaaa gttactgagc taatcctcga 2880
ctatgagtga caacaaaagc ccaagtcagc catgaaatat ctttctctgc cttatcaaca 2940

accaatacac tatgctgagc cagtaaaaat gcaggaatag acggcttcct cctaccggtc 3000
 attaaccctt cgactaccct tgcccctcgt tcgcccacgg ccaccactcc atcattcagc 3060
 aagcaaaggt tcccttgctc acagtcccct ggcaatcaat acgctccatg ttgatgccat 3120
 ctaacatgtc ataattgtct ataattctaa catgtgttct ccaaggcaga acatccccgaa 3180
 gaaagtacgt ctggacaaac aaaaacacat ctccgttgca taccggggga tatacactag 3240
 tatcttgtag cggtctgggg aaaatgggtg ttctaccgtg aaatgatccc agggacacgt 3300
 tggtagttca tatttgaaaa tattactacg caaaggctaa tttgcctacg gttctagttt 3360
 taaaataata gatcattata tatctactac gtgattatat tttctgtctc gagaggcttc 3420
 agtgattact cgtccgtctg gcataacgtt gatgccagtc tttagcgcta atgtcatatt 3480
 ggtatttaac gcgtggaagg acttggtgaa ttcaataaga cgacacttcc tcagtgagcc 3540
 caccgcttct tcattttatg ttttggtaac gtttactggc ccagggacta attagacgtt 3600
 ctaatccagt ctattagtac atatcgagcc ctctctacaa cacacaacac ctttctcttc 3660
 tctctctctc tctctctttt ttttttataa tttttttttt tttgagggtg tctttatata 3720
 ttgattcctg ccagttgttt ggtaaattcg aatgacatgg cagacctaaa aaatacaata 3780
 gtcgggcgcg catttccttc gacgggctat aattatttgt ttcagattgt ttcgaagtat 3840
 atacattcta agacgtgac ccacaatcaa gtaacaagac ggcatgggta gctccacctt 3900
 tcctttccca agcaccctca cttcagggtg aggagccctg gccgatatgg cagaaggctg 3960
 tagccggggg tgaggctggg atctcgggcc tgatagagga gctgcaggtt gcaagggtcg 4020
 atgctcattg tctgatccgg ggtactgcgc acaagaatcc catggctgat atcgctccgtc 4080
 caggtggcac cgctgattgc tttgccagca aaagggtgcgc tctcagtggc cgctgcgggt 4140
 gtccatgagc caccaaggct gtcggcagtg aatgaccgga aatagcgccc ctgtgccccg 4200
 atcgcttcga caatcattag gtatgtgtct ttgctttgac ctgagaccgt gtacacctgg 4260
 acagcttcga acaagttgtt tctttcatct gacaggataa tctcggactc ggtaccgaaa 4320
 tcgcccggga attggctgat gggcactctg gcgcgataga tgcggccgtt gtctcccgcg 4380
 aaaaagaggt acattgttgt actgtcgccg atgactgtct ggtcaatgac cccggtgtct 4440
 gagtctgaaa ttgaccgga aaagagcggg tgggggtgat accaaccatt ggcacgggtt 4500
 ggatcactcg acgtcaggta ggaaaatgca gtagggcccc attggtacgc gaggatccag 4560

acatccttgg gctcgaagta gaatagcgtg ggcgcgacac ccgccccagt cattgcgttc 4620
 tggctcgcgg agaccaaadc ggaccagttc gagaagaggc cgaaattcat ggagccg 4677

<210> 2685
 <211> 2131
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2685

caaatctctg agcgaacctc gcccaaactc tcttcctgct gcttgaccgc ctctgttagc 60
 tctctgagcg ttttatccaa ctttctctcg tacgtctgga tttcggaaga gcttgcccgg 120
 ttttcgtcgt aaaaattctc agcctttcga cggtcctcag caaaactcag cactttctca 180
 attcgctctt gaggtatctc catcttgcca tctgaaaaca ttatcacacc agtcacgctg 240
 tttgtccaaa cgcgtctggt cttcgacgca ctcgggatag tccaatgtac gttcccacgt 300
 gatctggctt acctggagag gactagcgtg gagccaacga tcgcctcact ctcaacctca 360
 cctcttcacc tcttcaccgc gacaacacct cctgacaact cctccccgtc ttgaactcct 420
 cgcctttgct gctctcgtct cttttcttgt cgacgtgctg atcgcgctt actggttgat 480
 tttctgcac aacctacac tctatacgag tatccccgtc cttcagagcc ttgttgcgat 540
 agttgtgttg tacaccagca cataacgaag cgttcgtaat ttagagggga aaagatagat 600
 cgagccagca gtccgtccac ttctttgagt ctctttctta ctttgataat tcctcttccc 660
 cgcgcattgc actcgtcagc tcccagcacg cccgaccctt gcagtatatc tcctacttgt 720
 catcgcccaa cacaagcaca ctccgctttc atcgtaccgc atcagattca agtcgtttcc 780
 tcttgtctca tcctatccca aactgctttt gcctcgcaaa gcctcctgcc atacaagtct 840
 ctcaacgccc gtcattccac agcatttttc tacgtcgatc ctacttctc ccgcctcact 900
 tcctacactg tgcacgatta caccaatcct tcccgctcct caagcaccag attccctacc 960
 caatcgatcg ccgaaccagc acgcttttct ggggaatttct ggtgtacata gtcgatcaaa 1020
 taaagcaaga caagtcaaga cagatattct tccattgcca ctctttttga gtaagcgaga 1080
 caagactgca ccgttgaaat aatgtccgcc tccccgtccg cgttacaatc gaccaaactg 1140
 cctcttgagg acccttcgtc tccgtccgga cccaatgacc agcctgaggc caaacgtcct 1200
 gctctggaca aagtagttaa aggagaggag tccgagaaca atgcagaggt gaagaccgag 1260

tctggtgccg cgaatgatgc agatggtcag ggtgatactg ttgtcccaga tgccccgaag 1320
ggaggcgtca gtgaaacaca accgattcag tcgactgctt ctcatgggtga agcggcgggc 1380
aaccagagcg agcagcagcg gccccaggac gagtctaact ggatccatat ccgtgctgta 1440
atatccagcc aagaggctgc caccgtcatt ggtaagggcg gggagaatgt atctcaaata 1500
cgccgtttgt caggtgccaa gtgtactgtt agcgactact cccgcggtgc tgtggagcgt 1560
atcttgactg tgagcggccc gcaagatgcc gtcgctaagg tttgttttaa tccgtggtac 1620
cttcttgagc aatctcactg accatttgat aggcctttgg tctgatcatc cgtacattga 1680
acaacgagcc ccttgatgct gcttcacagg ctcaatcaaa gacctacccc ttgcgcttgt 1740
tgattcctca catcctcatt ggttcatta ttggcaaagg tggactcgt atccgggaga 1800
tccaggatgc ctctggagcc cgtctcaatg ctccggatgc ttgccttcct ctttccactg 1860
agcgatcttt agtcacctt ggtgtcgtg atgctgttca tatcgcaaca tactatgttg 1920
ctgtgactct tgtggagcag cttacagaac gttttggagg tccagcagcc tctgcttatg 1980
ccaccggag cgcggtcct gctggagccg tcccagggtg tatgcagggt gtaccttacg 2040
tgccccagcc agctggtggt cagtatggtc atccggatac aatcaagaaa caccaccg 2100
gccaggccag agccggtgct ggagcctgtg g 2131

<210> 2686
<211> 627
<212> DNA
<213> *Aspergillus nidulans*
<400> 2686

gcaaccggcc gcataatacg agattcacta tagggatccg tcgcctccac ggccaagggt 60
ccgtgctccg ccacctatcg cagatgccgg caagtacgct catacggccg gccaaagctcc 120
gcccgcgct ccacggggcg cgtcaggagc tacgcctggg cctccgccac cacctcgacc 180
cccgaaagct ccggtggacg atgcgccgcc tcggtttggg gtaccaccgc cgttccaggg 240
tgagcgcaag gtgtcagccc ccccgccacc cccaagtgc agcccggcag gacctccgcc 300
tcctccaccg cgtaccgcaa gtcccgtac accacctcaa ctcccgccca aagtcccgcc 360
attctcctca ggccctccgc cgccccacc aagaagcccg gcctcccaac cgccgcccc 420
tccacctgta cctggtgcat cgcgccagc tcctccacct actgcaagcg ttccaccacc 480

acctccacca ccagcacgcc cgacaccaac tgtaaccgga cctccaccac caccgcctcc 540
accaccagca agttccggac ctcccatgcc acctccaccg cccctccag cccctggaag 600
ctccgcgtcg ccgccgccgc cgccgcc 627

<210> 2687
<211> 2973
<212> DNA
<213> Aspergillus nidulans

<400> 2687

gtctcacgca tggacataga attaacacac agtgtcagca gccaaagaaa cacataaaaa 60
agcccgaact ggatataaga aagaaaggga aacgacacta aatttggtta taagatcaga 120
gagcaaatac tggcagggct agcgccatag cccacgacca agccatcgag cctggagcac 180
gggtggagagg cgacgcagca cccgtaaaca ccggtgctgt tggcgagggc gtcacgggtct 240
gcgacggcgt gtttgtggcc agggttgttg tccaggggtt ggcgaggggtg gttgaccag 300
ctcccgagcc ggagccggaa tcagagccag aagtcggcgc cgcggtaggc tggggaacta 360
gctcgatagt agatgtctgc accgggttga cgcgccacc agcagtctcc gtgaccgtgg 420
cagtggagaa tccaacttgc ggcacgggtga cgggtgtacgt tgagtaagta attgtcgtgc 480
atggaggggc cgtgggaacc ggagactgcg attcagagcc agtctgttca gggctcacat 540
ccgtaggcgt cgcggcggga ggcgggggtga ggggtgatcgt cgtaggaaca ttggtgatga 600
ttccgggggtt ctcagggaca taagcggcgc agataccagc catgtaggag agagcggctt 660
gaacctcgtc tgcacagca ccccatgcct ggatacaaga gataaccttc tcggtgaact 720
cggatgaggg gcagaagcag gtgatatcgc tgttggactt gcagtccggg atgaggttga 780
gccaggtatt gatacattta ggaacaacgt tggggcaaga ggtcgttggg acgggggtag 840
aggaggtttc tgtctccgag ggggttgaag gagtttcctc aggagagaca gaggttggca 900
cggcgatggg tgaggtagaa gtcaggggtct gcgtagagat cgtgggtgtaa gttgacgtga 960
ttgtggaatc gccgctgggtg attgtgggtt ttgcagggca ggtagtgaac gtcgtgtatg 1020
tgatctcggg gacgggtgac ccggcaactg gtgcctcagg ggttgtcgtg gggaggacca 1080
cggttggcac ggaggcgggt gccgactcgg taatcgtggc ggtagagaca gtgggtaagt 1140
ggaagtgatt gtggaatcgc cactagtgat agtggttagtg acagcacagg tagtgactgt 1200

ggtgtaggtg atctcgggtga caggagtttc agggacagga gtctccgagg tctctggggc 1260
 ctctgggtgg tagtaggggt gacgtcgggt gggacatcgg gggtttccga tggaacagca 1320
 ggggtctcag aaggcgatgg aacaccggtc aatgtgcagc gattgcagat ggtggtcggt 1380
 gcagtgatgg tcgtcgtgct cagagtgtct gtagtcacgg tagtaaacgt ggactcgtcg 1440
 gaggtgatcg tatcggtaac tgggcaccaa gtgacagtcg ggtaggtgat ctccgtagtt 1500
 gtcattgtccg gaggaatgac cgaagaccag ccaaggctga cgctgggtggg aataaccggg 1560
 gtagtggttt caggggcagc aggcgtcgac gtctcagcgg ggattgagac agtggtagtg 1620
 gtctccgacg aggaggtctc cgcaggaggg acgtcttcag tatcagttgg agtggacggc 1680
 gtctctgtag gagttaccgg gcaccaggta gtggacacga ataccgtcga agttgtcacc 1740
 gaggtggaat ccgcagggca attggtcacg gtagacgcac actgcgtgat agtaatctcg 1800
 ctgggtggtg agacggttga gatggtgaat ggcacggagc tgctgccggg gatgctcgag 1860
 aaggacgtag tagtaggcgg gatgacagga gtggacgagg tgacaggggc ggagccagta 1920
 ggagtcggga caccgatcac aggagtgtct ctagacgtcg gggcctctgg agtaggcgtc 1980
 gcggacggcg tctcggaggg agtctcagca ggaggagtgt acgtcggcct gcctggacca 2040
 cagacgaacc cgatgcttcc aataccgaga tcacagtcgt cgtgctcgct gtcattctggc 2100
 agctcgaatc caacagatgt agcaccaccg cactggtcatt tggtgacttc cgtaccagcg 2160
 gaagagcacc gtgcgtgctt cttgcaggtc gaaccgtcgg gcatgccaaa ggagatgacc 2220
 acgtcggcgt cgacggagggt gaagagggtg aacttgtcaa tggagaagcc agccctgtcc 2280
 tcaccgcacg agatggacgg gccggaggac tttgtgatac ccttgccaat ctttccggta 2340
 atgcatttgc tctaagaaga agaataataa tggccgtcga cgcttttcgt cagagggcag 2400
 ggtccctata ctcacattga aggtccgggt acgcagtcca ccgaaaccat tgctgcagct 2460
 gaagccggag aagtccaagc caccgaacga gctgaagtcg ccaatatcga ggtcgtccag 2520
 gtgaagccag actgctgctg ctcggtacac tcgttgctcg tgttatcggg agcagtatag 2580
 cattcgtcac tacccccaca ctgcccgcgg cccatcaggt acggatctat atctgtagaa 2640
 ggaaccttgg ggtaactcac caagccagtg gcccgggcag tggccagaag ggaaaggacc 2700
 gagaccaaag agtggtctt catggtgttg aaaagagcgg atctattgag accaagatat 2760
 cgaaaccagc gataacagaa gcaacagaag caaagtgcag agtcgggaaa gactgagaag 2820

aaaggacgag actaacgagt gtctgtctaa cagaatacat cagaatatca agagagaaaa 2880
gagaatgaaa cgatgaagag aatgagtaga cccggaacac cccccagctg ggggggtgggc 2940
gcaggggtctt tatacgagag ccagcccgta gtc 2973

<210> 2688
<211> 1341
<212> DNA
<213> *Aspergillus nidulans*

<400> 2688

gagttgagga ttggggattg agggctcggg gctgggtattg gagcatgatg tgcttgttct 60
agggttgctg aatatcgaga tatcccttgt gtctccgggtg tctgacgcat caccagactg 120
ggagtgttgc actctcatag tttgtatact cggctgttgt gtgagaccca caccagagtc 180
gtaccctgtt gccgaagccg tctttgggtct gggatttgaa attggagcct tcaaggcaag 240
ctgggcttct gttgtaatgc tttccccctg ttcattctgt gccgcgtcgc ggtccccctg 300
gttgtttagcg agagagggga ttccttgttc gatttgggtac gcaagtaagg aacaggaaaa 360
tctgattttc gactctagct ctggagatat ctcttgctga ctaataaatg gcgacggacg 420
tttagggggg gaaggcgtgt cgacaaaatc atagtaccgg gtgggctttt cgtctagggc 480
tgctgcgaac gttggtttct agatctgtaa gagtgggttc gaaagcagtt atatctgaaa 540
cttacctgcg agccgaatat aagagacaaa gaggcgcgcc tctttggagc ggttctagat 600
agaaggacat ccatagtgtg gatggaacca tgtagtttgg cgtataccgc caaagtatat 660
gtagttggac cacacaacta caacgcacag agcaaaaaca ataaggctcc aggcaaccgg 720
tcctgagcag taagcgggta caaaggaaaa agaattgtcaa taaatcaaga tcaggcgaaa 780
cgagagagga cccagcgcaa tggactggaa tgcgggggata tcaacaatgc ttcgagtcga 840
gcctcgaccg aatgccgagc ggggtctgaa agcctccagg gctaattcca cgagcagacg 900
atgcagaaac aggaaattcg agatctaaac gtgaacgggc acctaaaccg ctgatctttg 960
ggcgaagagc tgctcgagca atgcaagcgt tgcgttaaga gaagccgaat aaagagcgta 1020
agggttggtt agccgaacag ggaaagagag aatactccca gaaaatacag aaggaatgac 1080
ggtgatggat gagagaggaa gaaaaagatg aagaagaaag aaagcagaaa acagcagccc 1140
aaggtcgcac ggcattcacga ggcccgtgaa acaaagccgg cagtatcctt gaacaagcct 1200

ccagagggcg aatcttgcag caaaagcaat ggctgtcatt tgccaggtgt gggaaacaga 1260
 catacactct ctgagactcg acctattggc cgcagccgga tcgccgtcgt catctcgatg 1320
 gtgggaagcc gcaggataag g 1341

<210> 2689
 <211> 3251
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2689

tgtcggttcc gatgctgcgt ctgctgctgg ctctgctgct ggctcggatt cagctgctgc 60
 atctgttgta ggtaccgctg ctgcgtctgc tgtcggttct gctacggcgt ctgctgccgg 120
 ctctgctgct ggctcggatt tggccaccgg ctgctcgttt tcagagggct caggtggagg 180
 tgactgtggt gctccgccct tcttcttctt cttcttttcc ttcttctttt tctttccga 240
 cgaagctgtg gattcttcgt ttagctcttc tggagcagct gcaggctctt ccgtcttttg 300
 aacgggctca agctcgggct cggcggctgg tgctgggtgct gcctccagca ctgtttcagg 360
 ctctgtagtt ggcttagctt ccgccgctgc ctctggctct gcttctggcg ccgctgggtc 420
 aggctgcgta gctgcttcgg gctttgtagc tgggtgctgct tccgccgccg cctctgactc 480
 tgctgcttct ggccgccgctg gttcaggctg tgtagctgct tcgggctctg ctcttcttcc 540
 cgggtgctgct gtcgtttctg gctccgctgg ttctgggtcc gctgctggtt caggctccgt 600
 cgccggttcg gattttgttg tcggctcagg ctccaggctcc tctactccat tcttcttttt 660
 cttcttattc ttcttcttgt ttttcttgcc agtgggcttg agttctctcc cgcatgactc 720
 aggtggagta tcagccgcag gttcctcggg cgtctcagtt gcagcctttt tctctcact 780
 gggcgccggg ccttcttcag ttgcggtttc tggggcgggt gcttctgcta ctgcgtccgt 840
 ggcagcaggc tgttctgctt ccgcagccgg ctccggcgcg gcctcttcgg ttggcgcagg 900
 cggtgcctcg ggctctgttg tggtttcagt ttcaggagat ttcgcagcag gtgactggtc 960
 ttcggccggg tctgcagctg ctggttccgc tgtctcttcc gcaggcttct cctcagtagg 1020
 agcctcgctc gccgcggggg cggcaggagc ggtatctggt tgttcgctcg gttcagcggc 1080
 cggctcggcc gcttctcag ctggcctttc ctccagcagat tgtggagcag cctcttcggc 1140
 tggcgtctct gcttcagggt ctgagccttc gggtttaggc tcttctactg tatcgggagg 1200

tgctgctgca cccgatgatg ctatcccgt tagcattata cgcttagctg gatacagttg 1260
 ggccgcatcac cttccgcctc cggtgaggaa gcgttttcac tgcttgattc atctttctga 1320
 ggagcatctg ggactggggc ctggtccttc tcagcttccg gggcatcggg tttgttgctc 1380
 tgattattag ccgtcagata atccgcagag acaggatggt atgagaactg agccgtataa 1440
 cggtcgaagg tttgataacg aaattgaaga ttatcatcga aagattgata actgtactga 1500
 gggagctgtg catactggat cggggacccc atgttcctcg gattccgccg ggtcggaaac 1560
 tggtttgaa acctctgggt tgagaaagtt gttgtcgttt accggagccc ttttggcgct 1620
 gttacccttc ttcttattat tgccgccctt ctttttgcc atcgcaaggg tcgggtggtc 1680
 aggagtgggtg tgccagctct aaaaatatga taggttcgtg tgagctgagg cttgaggcgt 1740
 gaatataaaa aatcaatcag acatcagatc acggtcgctt gtgtaatcgt cggttcaggg 1800
 ggcgtgacag gtgagaaatc aattacaaac aaggaaaaaa aataatgagg cgacgagaca 1860
 ggtgagaatt tggatctggg agcagaaaga cactggatag cagggttcag cagctgtcca 1920
 agtcttattg gatcgaacac aggaaatcgc agcggggaat cccgtctatc cgcaagcccc 1980
 tgttgaccaa ggcgaggcga cgtatcgcag tacgtccagg atccagttgt ttggaagtct 2040
 cgagattttg gccttgagac tgcggatgtc attgacgaac tacccaaacg gcatcttagc 2100
 tcattggggc acgtctcaag gccggtgggc cgactgagga caaggaaaga cgccccctt 2160
 cgggagcatt gctgcaaagt gcaatcggtc tgcacgtgc aatgatagct gctgcatgga 2220
 agccagtagg agcgaagtgc ggcattgggc ctgagtgcgt ggagatagtg gaatagtggg 2280
 gtgtaacaat cgtccgtcgg gctctgaatc cagagagagg ctgggccaac agttaggcga 2340
 ctcggccagt tagtatgaat caccagtccg actcagaaac agtttacgac ggagtacaga 2400
 taggcccagag aaggttctct gtcgcaatcc gcaactgcat gcattttggt ttacattctc 2460
 ccaggaagcc gtatgaagcc gtattccctt gcttgggcag gtactgtacc tgacacatct 2520
 gaaaaaaacg ggaccaggca tcggactctt aactcttttg tctctcggcg tcgaaaataa 2580
 tcaattctgc attcatcagc atagccatac tatggactgt taatctcccc accaagtctc 2640
 tgcccaacac cacctgtttc gggcgagata caggaggctg ggaccgcggc gtgggaggtt 2700
 ggcaggcccg cacctgggct tcaaagtgcg tggaactacc gggctctagc ggactcattc 2760
 tgattgggaa gtgaggatgg agatgatgat gctgcagctt ggaggataat ctggagtcaa 2820

taatgacgtg caagatgatt tgagtatcgt ccactgtttc aagatccaag atgggcggga 2880
 gcaggtcggg gcgtggaaac agcaagaaag gcagtggcgc tttttctcca cgaccgcaa 2940
 atcaacgctc cacgtcgatc agacacagac cacaagtctc caccaacaca ccgaacgtcg 3000
 tccaccgact tttgtcttta ctgagcagg ctgactcaca ttaatgaccc tcttagcact 3060
 gtttctaagc ctactgggtt gaattctcga gggcaagaaa agagaaaaga aaggaaacct 3120
 gaagatactc tgaattcgcc cgggatcatg atcaacatct aggatgggtct caaccactgc 3180
 caaactcgac gaaaacgcgc agtggcacct agtacaaagt gaggcagacg ctatatggca 3240
 gtcgacaagt g 3251

<210> 2690
 <211> 2206
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2690

gcgttaccgc cgctccagac gagtggctgc acagacatca ccaatcatct tcgtctgttc 60
 ggtatcatta ttagctaagt cgggctccga aatagatggt tcagcattat ggaactgaac 120
 aatgtctcag ttattttagg agcgttttgt ttctattcag atataacaat tgccacgctg 180
 ctcaggggag agctctggat acttcgattc gaattccaag tgtccaaaca gcatctctgg 240
 caaacctacg caaagtcaat acggctcgat gagttagcaa accaagccga ttgggtgccg 300
 cttctgacca gctgacttga cgggtggact tcgcaatatg ataacaatta atgacctgtg 360
 acgaaaactg gagaatcggc ctttgggtggg cgcttggggc catcctttcc gacagaacgt 420
 acgagaacca ttgccgctca gtctggactc tagacgtgac ccaatatagt tcgtccgtct 480
 ctatgctagc ctatgctagc cgttgtgggt agccatgtgg tctaagccat gacttgcagc 540
 ccgacgcctg ggcaaatacg tggaataccc ttogatttct agccagcgag tgattaacct 600
 tcggcaagtc tgcttacgcc gggctgctca ttgttgggga ggtttactgg tcagcagcac 660
 acgagctcta ttccacaagc agtggctcga ttgagccatc cggactttcc aacaaccagg 720
 cattcgtgga caagtggtaa ttacacaaag cagacacgct cggcattagt ccaaggactc 780
 tcaaactccc tgtctcggcg tcccgaggagg gtgggatctc gtcaaacaga atccggagca 840
 tatctactca atgttgacca cagttatagg ttgaattcgt agactctatt acacagccac 900

aatattttgca tatgcaaggt gatcatgtgc tatgcctgcc catgcgacgg taaatctcgc 960
ttcgaacaga cgaaaagtga gctgccgaat gctctccacg catttatgat ccaactggcg 1020
gacagcataa tggcgggtac gactgttccg cgtagggact gcacaatatc tgtaacgtaa 1080
tgtatccaat taactcaacg gtatgcccgc atcggaacag tatgtgatat gacatgtata 1140
tatcactaat gaagagatat gtccgtagag tcacagcacg tcaaggcaag ctcacagata 1200
gaatctgact tggctgagga tcatctcccc gtaggcgagg ttcacaaagt gactacttag 1260
gtacaaggca agagccctag tatactggca tattatgtgg tgcgtacagc atgtacgtgc 1320
cgtaaaaggc agatcaatgt cgattcatga ctacaggctc aaatcggcgt ataacctttg 1380
tgagttagca gggtgggccg tagccaggtc tgacgggaaa atatatgctg catcaagact 1440
gggcgccaca ccaaggatat catctcgaga cagaactaga accagaacat acatcacttc 1500
atagaaatca tgacaggcaa attagagagg acattagga cataagagac taggcaaggg 1560
ttaagagttt gctggcagag gtgggacaga acaataaaaa tacagccgaa ttagacaata 1620
aggcttttac gaatgggtat atggataaaa gaaaaacaa tagtgtagtg aaaagaaaag 1680
ctcaaccctt tagcgacatc catggagtcg catatcccca agacgggtca ttggcgagca 1740
tagggcttgt tctcgtatcc ggagaaaccc cacgcgttct tctgatagc ttttcgctct 1800
gctttctgct aatattcgag taacgggatt cagtatctgt gtcgctggtg taagaatccg 1860
tgtcagaaga gtcagataa gtctcggat gagaggaaag gtcgggctc aaaggccgtt 1920
ttcgtctgga agttgtattg tcggagcttg ggtttttctt tggtttctgg aagcgagagc 1980
ggagcgtgac cagatcgac cgagcgtac gggatgggat ggcatctatc ttgtcagcag 2040
atgcattttg gaacgactga cgccttgctg cggaggagta gacaacagga ccaactgcctt 2100
gttttgatca aacaagtggc cccggaggag gccttgccgt tgtacctttt gaaagaatag 2160
ggggcgaaaag gtttaccctg gtttaagga aatttttgca tcgaaa 2206

<210> 2691
<211> 1068
<212> DNA
<213> *Aspergillus nidulans*

<400> 2691

atcttactga acttgcaatt aacgacctca caatcagaga acgcgacgac caggcaacaa 60

catattcgcc gagactgtcc tcttcaatcc aactccagca tcagtcacgc ttgtatgtct 120
cccttctat taatccttac taagaaagaa aggtgatgaa actgacatta tgggataagg 180
gcgacgtgac cctctccatc ttggccgcc accactccat cggcacggcg acgagcagca 240
tcaacaatat caagtccggg aacaataccc tgagcatccg tgcattcctc gatggtgacg 300
tattggaaga gaacatttct ggaattatta gagagcagat tccgtacctt cggaaggggg 360
atattaagat cacagcaact ggcaagtcag tgggtgataa cgggcagcat ctgcaatact 420
gggaaacagc gctgcaggcc gtcagagtcg aggtgacgag gtcggtgagg gaggtggtga 480
atatggtcct tgatacgett gacggggatg acattgtagg tgaagatgga gatgattctg 540
gctttggaat cttcggggtt gaaattgata ttcccagagt ccaagagggc gtaagatctg 600
ttgttgaggg gcttgttgag cagatcttgg atactgctaa agggctggat gagaatgagg 660
aagacacatt tacggaggaa ttgactgttc ttgggaggct gatattgcga ttgctgcagg 720
ttcttggggg tctgtagacc tgatagcttg ttcagtaggt ttaactatgt ttattctttg 780
cctatcacac gccagaagta aacgcacttg gacggacagt cggaagacaa agcttaccgg 840
aaggcgcgcg acacagtctt gatgttaagt tggtttagcc tcatattccg ggtcatatcc 900
ttgctccctg cccttcgagc aggagaagcc agcctagcta tgatctcggc taacttaact 960
atcagtggca ctgtccaatt gttctggcca tatcagcttg gaggtgcct cttatatcat 1020
ttactaatca gataatctac caggttcagt cacacagcgg ctggtgat 1068

<210> 2692
<211> 1307
<212> DNA
<213> *Aspergillus nidulans*

<400> 2692

gaagctaaat atctcccacc agattgccga tgctgttgaa cgcgcgtcgc aagaagcata 60
tgcgaaggaa gcccgctcgc cgaaggcgcg tgcattctgt aatgctggag gcgatactgg 120
taccaacaa tcatttcttc ttcttgattt accgaacctt tcggatcttg tttctggtgt 180
ttacgaagac ggaatgccgg tatacacaag acaaccaagg accaggacca cacggtttgt 240
ctcacctcct gccgatgtta cagatgttct tttcagtcgc gaacatatgc cacttgacac 300
tataccaatt cctgaggacg agaaggcgcg ttttgtgtca ttgagactcc tacaagataa 360

agtttcagaa ctcgaaaggg ccaaggccga tgctgagaag aagctggaag atatccggca 420
 ggaaaacaac tttttgaagg gaggaaggc ccgccaaagg gaacgagaga gccatggtaa 480
 acgctacgag gttgaacaga acgactataa gaaggaccgt ttgatcaacg agaaccaaaag 540
 taggctagcc ccgtgtggtt tgagctttcg gtgctaacga ctttctagag ttggaatcaa 600
 caaacctagc acttcaaaat aaagtggatc ttcttgagcg caagagcgat attcaagaag 660
 cagctttgaa aaagcttagt aaggagcgtg atatggccgt ctctcagctg ggtgtggcat 720
 acctcgagtc tcaggacctc aagagtgaat atgaagtcct acgggaggag atcgctgagc 780
 ttaaagctcg gtttgccgag ctcttgcccg gctcgaagac aagggaacaac actgcacaat 840
 ctgaacaaaa cactgccagc gatgccagcg cagaagcaga tgatagccaa gtggataccc 900
 gacgaagcac caaagacgcc accgctaaaa gcacgcggtc gagatcaaag agtcgcaaag 960
 aagataccag gactagagtg tcaagccagg ttgacagaga gatctctcgt cttgagaggg 1020
 aacgtgccga cgaagaactc ttctcgatcg aactgccacg agtgagggaa tcctccatgt 1080
 ccaagaagca gaaagtaa atcgacctgg caaccagcgc acaaaccaaa aagcagccaa 1140
 atacgggaag acgtgttaag agagttgtgg tcgaagaagt cgagcttaca ggaccggttg 1200
 aatttaccac agagttaacc gggcacacca aagagacaac cggacgcacc aaagagacaa 1260
 ctggatacac caaagattca accggacaaa cccgcaaata gtccgcc 1307

<210> 2693
 <211> 4787
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2693
 ttaggacgga cggagctggc atttgtacga taatgcgtac gggtagcgag gccatgccgt 60
 cccgattgat aggccgtcgt tctcggtcgc gogaatggat cggatttata cggcataagg 120
 gagaggagtg ctgttgtacc tgcaagacta aattgtggag acagagatgg agagtgataa 180
 gaggcagtat atgttgtgga tacgcacgca cgctcgaagg ggggagggca taggaaaact 240
 gtatcaactg caagaattta gcctaacaag gatcggaacg catttgacga ctgattctct 300
 atctcaatga cctagacagc tctgctcagg atacattaca tagaagggtc agatcagggg 360
 tcagatcata ggccgcttat atcatgttgc ataagccaca gctgccaact gccagtccgg 420

tggatatccga gttgacctcc atcttaaagc caccgagaaga caccgcccggc tagagggggc 480
 tagagggtgaa actcggtcgg aacgtttgct tgtagtaggt gggtagcatg gctcaagtat 540
 tcattgcgaa aagtattcaa catcccaaca tcaatgtacg tcctgggtag gccttgcaag 600
 tttgaggccc tagcaggggt gacgtagctt cacacattgt cccctcgagc ctctaaacct 660
 aacaacgtgt tccaagcggc ctgattatcg gcagccgtca aggttgtaag ctgcctaac 720
 gtctcaatgg gtttattttg tggttgcca gcatagggtg gaccagtatc tactccgcaa 780
 gtggcgtctt ctgccaccta tctctcgcca taagggtgc acttgagca agcccaccac 840
 cagcgtcgt acccatgacg ccaatgcagg tattgtccac tccacagcgc gagcgtacag 900
 ctataagaag gcagcatagt aatcttcttc ggagtaggga atgggtgtcc cgggtgcgagt 960
 tggatttcaa caacataaat cgggtgccccg attgcgcaa tgattcttct cgtgcaaagc 1020
 cctatctgcc tcacactacc gtagtccaaa acgcctgtac tcatgtgcaa tatcgagcgc 1080
 atcttgccct cttgagctgg tgtacagaaa cgatgagtga aggattcaat ttgatgggtca 1140
 tcagcagcag tcgcatggta tacaatgcac tccacggccg tgttccgtta gattttccgt 1200
 ctcttcagga gctgttcata tgtaaagtcc atgcagcatc tatccagagc accgggggtat 1260
 acaggcacca gtgcccgcaa tgatactggc taatagcaac caagaagaga tctatcctcg 1320
 atgaaataga tagacaacca tactcccaag tgggccaat ggtcactttg attagaccct 1380
 aatgcgtggc ctgcccgggt gggacctata tagctagctc gtcgtgacat gcattgcatc 1440
 tcggtaacgg gccatctaag tatctcctga gtgagttggc gctggacgag agcagtcag 1500
 acggatttag tcaagtattc agcatcacgg atcctcttct attaaaatga tacatacaga 1560
 atctaatacta atttttgata tgcaagtttg tgtatgttg gagatgaaag cctgttccag 1620
 gcaggatgtt gggatgatta tgcgtcacg aatatgacca gctgattatg tggatatgtc 1680
 ggttcattaa gtcttcttcc cttcgaaagt gaccggtcac ttatcccgga gaaccttgcc 1740
 atatcgctg aagagaattg ggaccgttac taaggccaac gcatggaagc caagaaggga 1800
 gttacccac cccaaacca gcgatcgaac catggtaggc cctgctagtg gaagaagcgc 1860
 accaacaaga gaccgtgtag cagtcatagt ggcgtttgcc gaagctgcgt acttggggta 1920
 gcaatcaatg atataggtct gaattggcat ataaacgccg atcatgcaa ctccaaaagg 1980
 gaagcattcc gataataggc acaatccagt ggacgtgctt gtctgtgac caccataacc 2040

agaagaaact gatggggaga atgcttgaga atattatcat caaaggaagc cgcatttcag 2100
 gttcgaattt gccccagcg cgcgcggtta gcttaaccag cattctgtca tttgttacag 2160
 ccatgaaaca gataccgact atgaagccta tgccaatccc aaggtaggcc agccccgaca 2220
 gggcagtaga aaacccgtag ttactggtaa agacagacga gattgttgtg aagaaaaggt 2280
 acagaagtcc gtaaataaaa gcctagaagt aatcagtctg tcagcaacgt tccctatatg 2340
 tcaagaaagt cttgggtgat tctcaccatg tagacagaga gaagaaatac gattgggtgat 2400
 ttgacgagga gaagaactgg acgcttcagg ccgagtttca aagcctgacc cacagacagc 2460
 gattcacgct ccagatcgta tgcactccgt aggtcagcgc gccctgtctc ctgcgcgagc 2520
 ttggtcgttt tccactttat caggaccggg gcaaaggctc ccttgttcaa aaactcgatg 2580
 cccagggcca cagtcccgcc ggctatcaac aaggctcaga atgtccatcg ccaccccacg 2640
 ttctccccta taaatcctcc ggcaattggg ccagccaccg gcccaatgag tggaccaagg 2700
 cccagacggg cagtggcctt tctcgttgc tcaaccggga aaaggctctg gataacaccc 2760
 gcaccagggg taatgcaacc ggacccttca attccagcaa aaaatcgaca aacaatctct 2820
 gtttcgatat tttgggccag ggcacaacca acctgccata cgacaaagaa ccagtttgca 2880
 ccactaaggg taactcgacg gccgtagatc tcgcttaaag gggcgagaat gcatggacca 2940
 aactgtatca atgagattct gtcagcccta tccgcatctg ggtaatgact tgggtgtata 3000
 gagtcggtct agacctactg tatatcccat caaataaaca ctaacgggtga aagataaaat 3060
 tgtctcgttt gtttcaccga agtccgccgc catgtaacta atagctggcg aaaacatgct 3120
 tgatgcgaga ggtgatatca aagtaaagtc gcttatcaaa gccagtagcc cccatttttt 3180
 cctagcagga aaattctggg gattacttgg gtcactctga ctgtcccatc ctacaatccc 3240
 ttggctgagg tcgctttcgg ggaatgtgac ttgggtgggc attgacatct cgcggggaatc 3300
 ttgtttctca agatcatgtt gctcttgttg actgttgttt gcgttggagg cttgtttatt 3360
 cagctcatct gggccttgtg gaataatcgt gatgctgctg cggctcgtgc ctgttgttct 3420
 tgatgagctc acctgcgcgg agtgttttgc aggtctcatt ttttaagcgac tgaaagagaa 3480
 gataatgggc aaaaacaaaa aaaaaaggga aagagaaaga tcgggggatca gtgaagatca 3540
 acaagggagg agaaatcaaa ataacggaca gaaccagaa taggtactga tgagatttaa 3600
 atatggatac gtttaatcat ataagaatca ggagagacaa gtagttaagt agtcgggggag 3660

aagaagccga taagaatttc cgaaacgttc cactgtcccc gaaaagttgc tatattagta 3720
ttcattagaa atacgtcccc ttccaatctt ctcaacacca tgatggcgag atccccgggtg 3780
catctacggg ttgaacgcgg accgactgag agccttaatg tgaggatgct tctgcattat 3840
acggtatgcc gatgttcgga acgcgctttt tatgcattcc ctgtccgtgc ataatgattg 3900
cctatcatga gcaaggcttg actggtggct gcttgggtgag cctttgcaaa tggaggaagg 3960
attcaggggtg ccctaattcca cgcaatccac tgattctggc caataataac ttccagcgtc 4020
tccgctagga atcggttgaa tcattcatca catgcaacac ttgtcattat gcaccggatt 4080
tcttcatagt tacggagtat aacatcatat gctaagctca tagactacaa atctccggct 4140
gccggtcaag ggatcaaaaa gataaggaat tatccttctg agtcacatgt ggcaaacata 4200
gcctatcttc acagatgtca tactatatgg cgccatgagg gcttaattca tgcacgactg 4260
agagctacgc ttcccattct taaccttctc acaatagccc gatatcgctc agttggcgac 4320
attccccgta atatgtctcc gctggatgag ccagctttgg agaactggta gaaaaaagct 4380
gttctagaat tcggatggaa atgttatgag cctagacacg tgacctatgt gtatattatc 4440
tgagtgacaa gtatattagt cagaacttag ctctccaaag gggtttagcc cttttttggc 4500
tgattgggaa gttcgataga ggaaagttga aataagccgc ttttttattc taaaaaattg 4560
acttatgtat atgatcccgg atagtcaaaa aaagcacttc tcttactaaa tgcggctaac 4620
gctattaaat agttttatcg aaagcagagg attcccagat tttcctcgta gaggcggatg 4680
cttgcttaac acagtccta cttctacca cacacaacgg ataccgtact ctttttcatg 4740
aaagaacctt cttgtgtata ctgcaggacg tagctcagaa caagcat 4787

<210> 2694
<211> 2642
<212> DNA
<213> *Aspergillus nidulans*

<400> 2694

gtctggcatc cttgagatac cttttttgtt tagcgggcta cgttttgacc tagatactta 60
tacctatctc cgggctttca aaaccttttc caccagtaaa gatccaacat gcaacaggct 120
tggaagatca tgtattacca ccgaatcagt aaaaatatca aatgaactac agtagatcaa 180
cccaccctc cactctgcta ctgggtccca gggacagctt ctgtcttttg gacttcttca 240

ctctctacca caggggcaac gtccgtata tcccgggcac tcggtctcc gagcaggctg 300
gtctcttgta ctggcccttc tctcccaacc gccattcccc gctctccatt ctcgataacc 360
attctcagtt cttccattcg cctcgaaaac tgatccatca tgtcctccaa ccgctgaccg 420
cttgcttctt tgtccctgtc aagtatacca aatggtaggc cagatgttcc ctggatttgg 480
agcatgaggc cgccgttcag cggtttctta gaagaatttt cgaatgtcgg tgccggaagg 540
agttgagtgt tcaggatttg ccaggatggg gagaggctat gtgcggacgt gattctgaat 600
tgaccttgcg gaggtagctg ctgttcagtg attagtgggt tggctatata tgggtgtcggg 660
ccttgcggtt ggtcttgcgg gtgcgttcca ggagacattc ctgcaggata ttcgttctcc 720
tgtctggacg gtacatgac gatatcgagg attatataat tatcgctac gccgggtatt 780
ggatccggaa ggagagattc cttccttgcc ggattatcgt cctcgatagg ggtctctgac 840
tcgtgctctc ccacccttga aggatgccgg tgcaccgctt ttgacttgcc ctttaactt 900
ggattcggaa gggcatcctg ctacagattca agcgagcgca gcgcagcttc cgttacgatg 960
tctgtgtcgt cgtccgaaaa gatgtagtgg actggtgggt gatagtattc agaggtgtgg 1020
gtgtcttcga tcagggtgaa gaatggctgg gagagcattt gcgatgcaaa tgaaggcgcg 1080
gtctcgtggg aaatttggtc attgtgttct gcgaggtgtg agtcgacggg tgcgccgggtg 1140
ttcaagcttg cctgctcata gtgatcgata gactgcgggt gcgtctgcgg atgcgcgggt 1200
tggtcgatgc tgtgtggacg ggacaacgga cggcgaaggg actggtttga ggggtgatgag 1260
gagatagagg gcgatataga gggtttaggt agagacatgg ccgatgagct cgctacatgg 1320
tcacgatcgt agtgaggttg acggttgagt ggcaggctga gccactaggc tgttgatga 1380
ggagaagctc ttatcgatac ggtagcgggt tcaggtgatt cggccaggcc aggcacgagt 1440
ctatttctgt ggggatatgt acatatgggg gcagaagtat gagcatgact ggaaggaaat 1500
ttttattttg gagagtatgt aagatgaata agataaaaga tataggaaaa gggatatcata 1560
acaagtgcaa cctaaacgcc gtttccagtc tgtaaccttt tgcgattttg ttattcgtcg 1620
ttctgtttcc attcaaattc tagccaactg ttagccgacg gtaattggag ttgtagggtg 1680
gatatactct gtcggcacat aggacaaagt cttttcgaag actcttggtg tatccaagtc 1740
atgaggcaat gctatcacac aaaacatcag cttgattgaa aggacgaggg gtcggcagtc 1800
ataccatatg gaacgagtgg ccgcacttcc caagcactat agcgcagtta gaacaggagc 1860

actagctttg ctcatcatgg ggacctctta cgcaatgagc aatcgtcgcc gggaaatttg 1920
caggttgggc aagtcccgtc aaactggacg cggcagatac cgcagacctc atcctcgggc 1980
atatcccaac gccaggtagc gaccgcattc cattctttga gcgtgacttt catggcgaat 2040
tggtaaagtg acgggtagac agaggcgtgg tggtagcgcg gtcgctactt tctcgcaacc 2100
acagaggaag gaagcttggtt ggtagctgga gataacagaa gccgcttcca gggtaattcc 2160
cacatggcgg agatttgagg tgggcttgcc gaattctaac ttatattggc cactgtatga 2220
ggtagttttc aacacaagtt tctaaacctt aaaatcgtat gactggttac gcttggactt 2280
aaactcgggg aatttatctt accatttcaa tcgaccggcc cacaatgggg atggaatata 2340
cctgcattcc ccctttatct tccaaaaatg cttttcacgg acccattctt tttcacggcc 2400
ggtaatagat cttttgccgg ttcaaaaatc cgcttactta cccgagggtt tcttggtact 2460
ggatccaagg gttaaggccg agagattctt caaatttgct cccgaaacc tttgggttg 2520
ttccaacctc ggggccgggt ggggtgaaac ccgcaaagt ttttctggat taagctgggt 2580
tcttgtttaa ttacttcaga aatagttgtc cttgggtttt tacgcccttc aatttggggg 2640
gg 2642

<210> 2695
<211> 1003
<212> DNA
<213> *Aspergillus nidulans*
<400> 2695

gactattccg aagagcagca ctgtttgctg agcacgcaac tcatgtgatt accctgggtga 60
ccggttggtat caagatcctc tccttttccc ctttgtaatc cacctcgag tccaagcca 120
aaccaatttc tctctgtact cgcactgagt ctgagtcatt tcaatctgac acatttcttt 180
tccgatatcc tcttgctatc cgtattgaga actagagtaa aagaatggca ccaagtactc 240
tcgtcgcgat catcatgttg atctctaaac tgtactcgca ctctagacgt tcttacttct 300
cggatagaaa gggaccggtt tccctcgctt tctttgctgt gtcacacaca agcgaaagga 360
tggggctaag ctggcttcca aggatcagaa gaggaagaac agggaacaga tacctctaga 420
ccaggtctgc tcgaacatct catcctaaag caggtgagag agattcgtgt cgcgagcaga 480
ggaaggagaa gctgaggaat ccatgtcgta taacgcggcg tgaaatcacg atgagcaaac 540

aggtccttta gtgttcccat ggtacagagg actgttcttg cactctttgc cgagtttaca 600
 aacccaacca agaagtcaag cgcgaggacg ctctggcagg aatgacaccc tagagatatg 660
 atatctccaa ccaaccacca acggaggtca agagtcaagc caagggaaat gtacgcaatg 720
 tgcaatccgg gccccgttgg tcaggcatca ttttgacgaa gatattagga cgaagtacca 780
 tggttggtgg tgatcatcgc tccttgatag agtcgtacgt actcaaaacc acccaggaat 840
 gcgcccatag cttcttcggt gatcaccacc ataagcctcg accgtcctat aggatacctg 900
 tttccctaca agagaactaa accttcctct actttatctt gacggttatt gtcggagctc 960
 tgtgcgtac gctgtgtag acttcacgtg tagctcagtg aag 1003

<210> 2696
 <211> 2189
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2696

aaaagatgcc catgtgctta aggtcgggta atcataactaa tcttaggtaa cgatcgcagc 60
 tccaaaaaaa gacaacttgg gcgcacgggt atcattctgg gtccgcctgg tgatatattc 120
 cgccactggc cgcaactcac acgttaccct agtacaaatg ttcactccgc gcactgtgcg 180
 aaccttgtga attctagtta cttgagatgc ccatacgtca ccggagagct acagcgcggt 240
 gagtgatatt gtcggcaagc agtttagcta atatgggtgg gtctcaaagc cagacattgt 300
 catcgtactt atccaaagag acccctttgc tgtattgcgt atcttgcaat aataccatat 360
 acgcgacagt tcttgaaact tctatcttgc aaagaccag acaatgaccc tgaatccaca 420
 gggctacggc aaccttgctt ccgcaagaca agtgcaaact ggcagctaaa taaaacacga 480
 ttctagcgac ctggctagag gggactgata actcttttct acccatcttt agtgatcatc 540
 catgatgctg cgggtctagt acctgtgccc tgtgctgtat agttcaaaca gcaccccgtc 600
 tgattggcgg gatggatata caaaatgcac gtgatctgat ttttccagct caacagcaca 660
 aaaaactcct ccggccttga taatactttc acatcacagc cgttcccaaa ataccagact 720
 ttcggggaag ctcaggcca cgatgtcact ccacgcccgt ctccggcctc tccccgcgcg 780
 cttagccacc cagccgcctt ccgaatccgc cgctccaacc ccgcacttcg aagaccgcgc 840
 tgacggtgca aacgctgaag acgacgctga agaccttttc agttcctttc tccctcatct 900

attcccagat gatgcacctc aattccatgg cgaccctggc cagtacctcc tctattcgtc 960
 tccgcgctat ggagagctac agatcatggg cccctcatac ccgagccaga gccagagcgg 1020
 ggcccgtaa aggagattgc ggagggattg ccgcgctctg acggccaggt aaaccaagta 1080
 gaggagggga gaaaattggt tgcgcatttc ctgtggagtg ctgccatggt tgttgccgag 1140
 ggactggagc aagctgatac tgagtcggga ggtagtgagg ctgagttctg gaaggtacaa 1200
 aacgagaagg tattggagtt gggcgctggg ttgtctctct ctctctctct ctctctctct 1260
 cttctagagt gaacatgcat gtgatgtgct aagatgctac aattgcagge gctggactcc 1320
 cctccatagt ctccgcccta gccaacgctt ccatggtaac gataacagac catccttcgt 1380
 caccagcttt agggcccgcg ggcgcaattg cctcaaagt caaacacaat ctttcctcta 1440
 gcacaagcat agtcgacatc cgtcccatg agtggggcac aacactcacc acagacccat 1500
 gggccctctc gaacaaaggc tcctacacgc gcataatagc agcggactgc tactggatgc 1560
 ggtcacaaca tgagaacctc gtgcgtacaa tgaaatgggt tcttgcgcca gagggcaaaa 1620
 tctgggtggt tgctggcttc catacaggta gagagattgt ggcgggggtt ttcgagactg 1680
 cggttagcct aggcttgaag atcgagagca tatacgagcg ggacttgaac tcgagtgcgtg 1740
 aagagggagg cgaggttcgg agggcgtggg ttagtttcag agagggcgag ggcccagaga 1800
 atagacggag gtggtgctgt gtggcgtgct tagggcatgc tcctgctgct gcagggactg 1860
 gagctgatgc gtagtcattg agtcaaagt atgtatactt gatatgatta tgatatagat 1920
 caaatgaact catcccgatg ttagtttaaa gtttaaatgt tgggcgtaac gttgagttgt 1980
 tcaatttgag gaaagcttgg cggaagaagg gagcaacacc ttcctcatct ctaatctaca 2040
 ctatgatcaa ccttcatttc tatacaagaa gtcaaagagc atagatctat ttccccgctt 2100
 caaatataac tttaaaccac ttcatgcat tgaacagatc atacgcttcg gcagcctgcg 2160
 acagaggcat acctgttatc cgtcataaa 2189

<210> 2697
 <211> 1728
 <212> DNA
 <213> Aspergillus nidulans

<400> 2697

tagttagttc tcctccatga agatcccatt atacgcatcc atagatataa cttccaggaa 60

catctcctca tctcaagtaa ctctttgaaa atttttcaat ccctgtgggc cttacctcag 120
ggcacctctc attcaagcac cccttgacca cagacgaccc cctgcgcgag acatgatatt 180
ttgaataaca atgctgtcca ggaattcccc tcgcgaagtc cattcagctt ctccactgag 240
tctcgcatcc agcttgagtg cgagggttca ggggtttctta cgtcttaatt ttggaggcgc 300
ctgaatgtcg gcataccggc ggctgaacag aactgctat tgatgactta cgacacatac 360
atactgttgt ataattttcg cttctgcca gacgcatac atttactctt atattttcac 420
cctgacgatt taaatgcaaa tcttctaccc gtatatgtgc tgatatactc atcgcctcag 480
tcacagaggg cgaaagccct accgctgca tcaccgtcac cagcggcgac tgcgcgatga 540
tagacggtta ggctcgaccg gacatcgcta tgtatctgtg acagcagcat ttggacattt 600
atgtgatcat aaagtacatg ttaggtacac cggcactcta ctcaataggc gtcacccag 660
aaacgtccgg aacaccttca ccctcgacca ctctcgact cacgatttcg tacaccggca 720
gctccgcgag tcttgatata acatgatgaa gcgtaggcaa ttgctcccaa ttcaacggat 780
cgatctggaa gctagccttg gaggatgtcc acaccgggtg cggacgggga accggcatag 840
cctctgagaa ggggtcgaag acggcatact ctctggctgc ctgattttta tttgcggcgc 900
cggctttggg gatatactta taagccaaaa taccctcgtc agcctctccg ctgaagccgc 960
caggggtcga tgctggatcg acctcgataa ggtcctcgag taggaaatgg cccagaggg 1020
ctccctgcca tcccgctgcg atacggtagg agctcgctcg ccggtagata tccaccgagg 1080
tgtaaagctt ggggtgcgcc agctcttctc ttccagatac aatgggggtct gtcaaggact 1140
cgaacaggat gggcaggtag gagcctcgga tcacggtgcc gtctgtgttg acgtattcta 1200
cccatgaac atacaagcct atgtgagagt acctgagcc gccaaagcat tccatcttgt 1260
tcaacgtggg tttggaaaaa gaagcatatg ctacagtatc tggcgcgctg aaacgccacc 1320
cacgacggcc gggggggaac agattctgca gaactgtgctg tgacgttttg aacttaatgg 1380
aggctgtcgt aaatgtggac ttggttccat tgcgaggcag gccagatgg ttctggcgag 1440
ggccaggcat gggcccaaac gcaataggca tgcgccaata ggggttgggg atgcgattcc 1500
atgaccattc gcggagtctc tgtgtcgagt tgtccattc atcatggccg aagttgtagt 1560
tggtgaatcc gtacactagc cgtttctgag tacagagctg cttaaaagaa aaaaaattg 1620
agagaaagag agaatgactt actatctgcg gtggactgac cgtctgttcc gtcctgggcc 1680

gccagccgag agaactgctt gatccgagtg gcacgttcat ggcgtatc

1728

<210> 2698
<211> 1435
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 2698

gattaagcag attcttgagc aggaggagga cgggacagga aagaaaccac atatcatgct 60
ggaccaggat tgtattgagc gtggttacgg atcccatgct gtgtggcttg accgagaact 120
tactttggat catgttggt tccagccgga agagctggca acagtgcctt gtcgttaatt 180
gggcatgttc tgcttcacgc atctgtggca gaccagaata tgcggctaag tttatcgtat 240
aaagccttgg atcttgcgga gctttacgag gaggtcccat acgtttaaac caagggagag 300
cggaatgtgg ttaagttaca gccaaggacg gtcccatgct gccggggtag gggagaggct 360
actaagtcac atagactaa acctgaagtt agaaagccta gacagcaatg gattaacaac 420
tcaccttttt agcacatgct tcgcatttgg caccgggttt tcatcattat gttacgcgtt 480
tgttattgat ttgtcttgta agctccatac gatcgcggt ccagcttagg tctagcgtgc 540
catgtaagtt gaatttccaa gccctcctca tgtacgtaga gtatgaaaag acaccagctt 600
atacggaata cagaggtggc ccgcttgctt gcatggccca ttcgcttacg ggatacggtta 660
tactacatca cgatgagtc acaccacatt ttgccacact tttgcctgga gagcattcag 720
cattattcta gtaaatagac ctctccctga gcctgaacca agcatacttc acaagtacgg 780
cggaataaat agtgcgcatg tcttcgataa ctggtggtcg acggaagctg ggtccccaat 840
cactagccga gcgattacgc ctacatcgg cttgagaagg aagattgcga caagcaaagc 900
catcccgcca aataagccag aaagtgtggt acagcccatg ccagggtttg atatccgggt 960
cgtggacgac catggggaag agttaccagc ggggtcgatg gtaatatgt actgggcctt 1020
cctcttgggc cgacggcgtc caacacgcta tggttggatg agaagcggtt ttacagaagc 1080
tatttgaaga gataccagtc caggttcctg gatactagt atgcaagatg ggttgatcac 1140
gaaggctata ttcattgtat gattcggaat gatgatgtgc tgaacgtcac gtatcgactg 1200
tccagtggtc agttctgtcc tcattggaca ctggtttcga taactgattc tcgcaactta 1260
tatgatccat cgaggaagcc ataacctccc atcctcaggt cgtagaagca tgtgtagtgg 1320

ctattccaga tgagctcaag gccagcgccc gttgcatgca tctcctctac aatgccgatc 1380
 gtncgactct gcataccaac aaacttgcg gcagagtgat tcgctcgag gagcg 1435

<210> 2699
 <211> 1983
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2699

ctcaagctgc cattcgggtga ctgctgtgga aggatcgtct ttcgtgatgc agcgagcata 60
 ctttgtccag cggacagcca tctccagact ctgctgctag tccatgttga acacgatcca 120
 tcggaagcac ggactcgteg ccacgtacat gtgcagaatc gccttcttcg ccccttgag 180
 ggagtctact gtgcggcgga tcaggtcctc acggcaagga gagagcactt ggagccaaac 240
 gtcgtcggga gtcagaccgg gtgtctcaac gaggctgcgg gtgaagtcaa agtcgatctg 300
 ggaggcagac gggaacgaca cttcgatttc cttgtagcca atctcgacaa gcattctgaa 360
 gaagcggagt ttttgttcgc catcctgccg gatgtcaata tgtcagtatc gcaaaacgtg 420
 cagatacctg cgaagaacat accatagggt caggcagact ttggttacca tctcgagat 480
 cagtggccag ccaccgcgga ggtttgtcga taaccttatt gggccattgg cggtcgggca 540
 ggctcagagg cttgaatggc ctgtatttct tagagggatc tttgagcctt ttctgggtta 600
 gctgctcctg atggctcgat agatggacga cgcagtcag cgatgggata catacatagg 660
 catggcgtgg ttgtgaaccc ggtcgggtgg ggataccgca gcggggaatg aacagagaag 720
 aaaggctgta cagagggatg ggagaagaaa ggcctggagt gatgagatgg gctgagagga 780
 ggactagttg aactagttaa ggccagcaat tgagatatga tttaaaagag ttgtgagtca 840
 ctctgcaatt gtaataatta tcgaaacaat tttgcagagg gactgatcac cgatggcggg 900
 ggactctttt ggctccatga atcaccagt ggggcaatag actgaccata ctctgcgagc 960
 catagtagta actatgtaca agtttacatt gcctcagtgg tcaaaaaaga gccacgggtg 1020
 tcaatttagg ctcatgata cctcgccctc tattagtgat atattctgta tagtctctct 1080
 gcaggatttg ccgtcgtctt cctcatctag ggctcgctgc gctctactgt gagtcgctca 1140
 ctgttcagcc atcttggtcg gggccgataa cggagccaaa gcgaccgcaa aatgccgcag 1200
 ataaccgaca aatcacgtgg atcacgtgaa gtggctattg tcagccacaa taaaacgcca 1260

ccattcaaaa ctttgaacgc agtagggcag gctcagcatg atgaataacc cgactaggga 1320
 tgtccaaatg taataccaga atcgcatgtt cttagaaaaa taaaataaaa ttaataaaat 1380
 aatataaata aatagttaaa taaagattcc atctgttata ccttccaacc tgcaagtctg 1440
 ttcatgcatg attattacca accccgaaga gacctcaagg acgatctttc agtgctcttg 1500
 ggcaaacgcg gtctgatata ggctgatcat cgggtctacg cagggtttaa aacaataccc 1560
 tacatcgagt cgcatagtcc aagactgtat catccagtcc tgaagagaag atcatgtatt 1620
 caacttagtg gaaggtggaa atgtcttggg ctgcgttaag gtatgggtaca gggttcaagg 1680
 ttagggctaa tccaacgcct ggatattcgc aatttatcct gtagcaaaat agcataaata 1740
 agcccgacgg ttatctgcag tcccgaacc cctgcattca gtggtacccg agcagttgta 1800
 ccaccgacaa gtgttattct cactggcaac caggaggaat ggggttatca ttgcctgct 1860
 accctgctgt gtattcccaa ggccgactac ttcgacgacc ggtctttaac gcctggttgt 1920
 tcattccaca tatgtgggat tcttagcacc ccaaattggtg ttgtctcccc attctttttc 1980
 ttt 1983

<210> 2700
 <211> 1725
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2700

taattccgtg ggaatataca atggccgttc tataaagaag ccacctaagc tgggtgctgt 60
 caaatataat gaataggtct tgtctcaggc tacaagatat gcgacgcaa atgtcgagaa 120
 aagagcaaga tattagtgtg acctgtacag aaaacgttca gagatcatag ctctggggct 180
 aggcacgtca caaaaccca ggtctcggca gccagttttc ttaaggatgc tactgaagac 240
 cccgcaagtg aattgtctct atttcaaacc agatttcatg gccttcagag tacaggaaca 300
 ggccacaaag accagaaagg ccgagaacaa agaaaaaaaa aacaaagaca attgagttga 360
 aggaacttga ctctgaataa ggacatatag aggccgcaag acctatcaat atggcataag 420
 cgccctttga gattgttata aacaccacat cgcatttgcg ttactgcag gcctccgaga 480
 aagcgcaata ccgctaaaca gtttggttaa tggnggcctc tacgtgcgct gcctgagagc 540

ttagaaccgg ggtctcaata cgaggactga taagtagctt gtgacgccat cctgcctcgt 600
 gcggataatt ctctgtacct ccttaaaata atccctgagc ggctatgcac tgctgaccag 660
 ccatctcaca tctgcagcct tgagagattg acttcactca gattcaaaga gggcagccca 720
 tcttcgaagg tactctatag ctaaagaaat attcgacacc ggaaagacca gggcaaggcg 780
 tacataacag ggggtgaaccg cttggctcag ggggttaagg caataagctt cgacagctct 840
 cttgatagtc attcggtaac gtgtctgttt ggtccttatt gagggattga cgtggaagcc 900
 gaggccgtaa tatcttgacc tgaaataaat ggcgcgcgaa aaagaatttg aactcccaac 960
 tcaccaatt gagattctat ttggtggtat ggctgaaaag aacggatatg ctgctcacca 1020
 atgtatcaaa ttacaactac cggaagacta tttcttttcg ttacttcctt actttctttc 1080
 cttttctttt ttctttttct tttctaagga agggctcacc taaaaccaat gcggcctata 1140
 tatcgtgaga cgtgcagtaa ccctaagctc tgccctacca ggacgtaaca tgatcagcca 1200
 ttttactcaa gtccttaac aaccaaagtc agataattca taaatttatc tttgtagtat 1260
 actctgtgga cttttggaga ctgtcacact aaacctttgt agataaacag ctccgaccga 1320
 aaaggcggcg ggtgggctaa actcgccgga tcgcagaccc caaaatatat atccctggca 1380
 agggatgctt cttgaccaac tcatcgggct gttcccaggt atctacaca agctttacac 1440
 cagtcctttt ctgcacaacc tcccagagct gttcccagct cgcccgtca tggtagtagt 1500
 acggcatacg ttccgctgtt gcgttaagca cgccttggtc acgacaggcg gtaaccggcg 1560
 atacgatgag tgagccaggc tcggcagcga gaagatccaa cacgtttcct gccacagtta 1620
 tctgctgttc gaagtcaa atcgtggagga aaagcgaaat gtagacgatg ttgagctttc 1680
 cggtgaggtg ggtgaagaga ggagactgtc tatataggat gtcgt 1725

<210> 2701
 <211> 2937
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2701

agtcgagttc gaactcagct gacgaggttt ctgaggaagg agcggcgtct ggctcggcct 60
 cgagtgcgtc gatcacgagt gacgagccaa gtccgactcc aacagatgcg ggggagaaac 120
 tagccattac agggcgagtt gcagtgttg gtgctgtagc agcggggcta ctctactct 180

aggctacaat ctcgagcctc tagtgtgaaa agccatctag accaggaac agcaacgtga 240
 aaggtagaag atagtatgca tggtatcatt gatggctactc gctataaatc aaaccgaaac 300
 caaacctag aaccaaacc aaacccaaa gaatgagcac aggcttatag cctcaagtca 360
 gacagctatt cctccggctg cacctgctct gccatgagca acatgggcaa atgtaccgcc 420
 tcataggaga ccttcacccc ctccctcagg cgctgtgtgt gctcagtgat cgactggcgg 480
 cggaggatga gctcgccacc aaagtcggag gttataaagc caaaacctg cgcgtcattg 540
 taccatttga ccgtgccgaa ttggcgattg ggagaggcag gagcggcgac aggcattttg 600
 ggctgttctt tggtgtttca tcgttagtct taatcttctt cagcgtattt tagagaaacg 660
 tgaactggga aggtgagaat gtaccttgag ccggtgtgga agaagaggaa gtagaggaag 720
 atggagattt ggtatgcagc gggagcgaaa cagacgcaga cgtgtccgac atatgacctt 780
 gcctaaataa ttgcaattgc tcgtgtgccc ctctgcccat atttatactt ctccctcaga 840
 atgatcatc ccggttcttc ccggtcctcg gcaaagattc gggttgggtc tgacgagggc 900
 gttacagaag cacggagacc ccacggttgg cgatctctgc aactggtgga gaacaggcca 960
 ggacataaca ttggctagca ctggctgcat ttaccgacgt gatgtcatga tcgactgatt 1020
 cnattcaata gccattgttc gtcgattgca gactggtgaa cgattgataa gatcctctga 1080
 atgtacaacg ccgtccgctg cgcactacgc ggactgtgaa ggagctgaaa ggtaaattgca 1140
 agtgtctgct catacgaaaa tgccccgggt tgacagtata gtaggcttga tacagacggg 1200
 gtctaccgcg aatgaggcat tccgagttat ctgcaagcgt ctgcaggggc gccaatccgg 1260
 cactatggac aaatgcgcac tgaatcgcaa tccatcagaa gaccagaaaa aagcctagac 1320
 ctcgagatta agaaattacc caatccactg agattagttg gtgagaggaa ccagtcaggc 1380
 tcgtcctcag gccctcgagg cgaggcctga tcctattcgc acgcctggca ggaaccggga 1440
 aacgacctcg ctacgaggca aagaagaccg atttccccgc acccagactt tcatccacag 1500
 accgttatgc catgggtttg gtctcgcgctg acgaaaattg cttcgtgccg tgtttctaatt 1560
 ggtcgacgct gccagccccg gcctccccga gtggttagagg tcgattccaa ggaagttctc 1620
 ttttcttccg tggttttatg ggtagaaga caagtcgacg tgatttgctt gcattgtgct 1680
 gctgttccat caaccgaaga ttgagcccaa gtggtgctga ggtctattgg ccatgtcatt 1740
 ccacatggcc tcatatggct gttccttctt atcgaaactgt agctggagac ggttcaccca 1800

attccgtctt cttcaagata tcaattcgag atataagcct gcggttcctt gtctcgggtcc 1860
 acaagggaga gcccctgtca gcggtctctt aggactcccc tagggatcca gtcaagcaac 1920
 gagtgcggag acaaaagggg gactaagtct atcccgatca gctgggtgct atgatagcca 1980
 gatccgcca taaggggaaa gggggcgctt tgtcactcgg cgcaagctcg ggtaacgaag 2040
 ttagtatgaa ggaatttccc ttcccttcat cactaccag cgcatcaatg cctctaccgg 2100
 cagaccccag atgctcgttt gaaatgtgat atacatctgg gtacatctcg agcgagacct 2160
 gttgcgggtgc tgcgggtgctg cttccgagca atcgacgcag aagatatact cattcgacat 2220
 actcttataa cccgaagaaa accgcatccc ctcctaaaca tgtcacagac ttccagcagt 2280
 ctgattcctc gtgcttcgtg tgacagatct tcatgacgag gcaagatgaa gogaagcgcc 2340
 ggcagctaata caagtgtgca gtagctctcg ctcagccttg cgaagcggtg gcatgagggg 2400
 caggttcaag tcaaatgatt acagccctta ttacttacc aactgtccac ttacaacgac 2460
 agctggataa aatgtcaata ggaagggttca aagcggccgt tgtcagtaac atcagcgaag 2520
 caaccgccac tctcgtaaat ctcctctctg acttttcgct gttcaagatc gaagcaccca 2580
 aagaattttc cccggtgggg aacgcgtttt catcaattcg tcgagaatcc gcagagagtg 2640
 gcgtcgtaca tactactgtg cgtaaactca ttgttcgatc ctctcctccc ggatacgtg 2700
 cagctgataa aggcctacgg ctcccgcgcg tcggaaatcg ccatcaaata aaagaatgag 2760
 aatcggaaca caaactatgg ggtctttgag agtcagggtg gccagatgc aacgagcatc 2820
 tgggcatcgg cgacttcggc ggccatcaag gtccatcttc tggcttgcac ccttgctcgg 2880
 atttgggagt cgggtgaggc aacggctatc tgggacgaga ttgtgagtac acagaag 2937

<210> 2702
 <211> 1873
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2702

gtgatgtgtg ataccgaagg atgttccatc cgaagcggca acgacgacat cgccgaggcg 60
 aatatcgtag ctaccgttcg gtacgcccc gccgatacca acgaggaggc cgaacttgag 120
 gttatgaaag gtgcgcccga cctcagttgc tgtgattgct gcgttggttcg tcccaggccg 180
 tgcggcagcg cagagaacca cattgtgacc cgcgacgtca ccatattcgt aatgatttag 240

gtctcctctg tcaattccaa ttggctgtcc gtgtgtatga tcaaacattt gttcaaattgc 300
 ggcatattct gcaggaataa cctgatgca ggctacacgg tagtcttcta ctcttagtcg 360
 ttttgaagac atcatatcgc atgatcttcc tgggaaatga gcttgagata atcacttttc 420
 agtgtagctc gcagttccct tcagaagatc agtctcttgc ctcgtcgctc atccgtgatg 480
 ttgcttagtg tctggtatct gaggggctcg aggggtctgc aaatgacggc atgagatgca 540
 ggttctcaaa agggctgagc cttgcagata atgagccagc gaagggtgtca cgcggggctt 600
 acaggcgtca tccgtgttcc tatcatttgt ctggagtgtt ggtagggaaa ttgggcaaac 660
 acagcctgct gccggggcct cgatcaaggt atgacacgcc gccggcaatg gcagaggctg 720
 gattggaacc cttaaaatac gtcccatggc gcctcatggg aacggcagtc tgtgtcgaat 780
 ggttacgcag ccagcgccc tcactaggct gagcctgaag acaaagggtc ctgggtctgc 840
 aactccatac aaactacctc cgtatcattt agcacgccgg ccttgtttac attgactggc 900
 tccacgtctt cccgcactc ttgcataggc gctctgctga tgagattgtc agctcaatca 960
 tagcctcgtc ttaatagaac tttatggatg tagatagaag ggaatagaga ttcggcgatg 1020
 cttctcggct tataaggccg ggaactcagc gaattccaca gtagtcccct ggactgtcat 1080
 cagacttgcc aggtattttc ttccaacgca gcgagacaat tgctatttat cgaatttacg 1140
 ctaccaagtc tgaccttggg ctatccaccc gaatacccta agcgtgcac ttcaccgaat 1200
 gctcgggatg gcctcattta cccgaagga cacttgggag ctattgagac cattgagcca 1260
 gatgacagac tggctaggaa gcaaggacaa tgtactgagg ctttgatcgc cctcacgggc 1320
 catatattgc ggtgatgaac gtggatgagc ttccgctagt tcctcctggc tctgggcca 1380
 gacgagatag agccaacgtt aggactggca aagcaacggc cccgtcggca atctctctta 1440
 tcacgtagga ttggcaggcg gtgcagaggt aattctgaga gatatttatg ctaactggcc 1500
 ggcaaggac tgaggctccag tcttataaag atagatatag attatatatg tttgtgttca 1560
 tgaactctgt tcttttcact acgggcagcc tttggctaga actctacatc ttccatctac 1620
 ttcacccaac ttgtttggcc agtccaccag agtacacgca gctgtcatat ataccggat 1680
 agttgtcaca ggtaccact ttcacctgat tttcgctatt agttctcctt gctcttcagc 1740
 gtagaccgat gagtctcagt gatgtttacc taggtcgaga agccgccatc tgaattattg 1800
 cgcactcatg tcgtgataag tagatcaatg gggtttcttt tatttagggg tatgccaccc 1860

gccttcatca aaa

1873

<210> 2703
<211> 2105
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 2703

acgggccgat ctatctattg cctctgtact cgcgtctcgt cgcaaccctt ggacagtata 60
tgccagactt ttctcagga ttgacgacgt atcttgacga agaatttcgc agtcttcagc 120
gcagaaagtc caaggagttt cttggccagg tgcgaattga gcatcattcc gctaccttgc 180
ggaattgaca aaatttggag taatttcgga gcatattata ttctactgct ttaaagtttt 240
cctggatgat ttttcgcgca tgaacattga gattcattgg ccacctgcta gagaattgcg 300
gacgatactt gcttcggaac ccggatacgt cccacgaat ggcatccttt ctggagacgc 360
tcggaagaaa gaagacagtg cagcatctgg gtccacaaga acgcatgac atcgagaatg 420
ctgtctacta tgtcgacca cccagcggc ctgccattca acaaaggag cggacacca 480
tgaggtctta cattcgaaaa ctcatctatc tggatatgaa caagcggaaac tataccaaga 540
ttctaaagtc agtccggaag ctccattggg aggaaccgga ggtggttcat atcctggaac 600
gtgttttttag caaacggct aaggtcaa atcggcaatat ccatctgctt gcaatccttg 660
ttagtgcgct ctaccgctat caccaaggct tcgtcattgg tatttggtgac aatattctgg 720
agtatatcac actgggtctt gagcagaatg atttcaagtt caatcagaag cggattgcag 780
aggtcaagta cctgggagag ctgtataact ataaaatgat tgactctcct gtaatattcg 840
atacgttgta tcggattgtc acatatggcc acggtgcgtt tttcggaatc attgaggttg 900
ccttactaac tgttctgcag aaggcggcac tccgatgcca ggaaaaatta atgtgcttga 960
tatgcccagac gatttcttcc ggatacgatt agtctgccag cttctggata cctgcggtca 1020
ttgtttcgac cgaggatctg cgaagaagaa gcttgacttc ttcttgaagt tctttcaagt 1080
aagcttgctt atgcttgatg agtgaagctt aggctaattg tttagtacta catttgtagc 1140
aaagacccac tgccgatgga catcgacttc cttgtccaag acacgtactc tctcaccgcg 1200
ccgcaatgga ccctagttac ggaactagac gaagctagcc gtatcttcgg cgaggctgtt 1260

gccagaatt tcaagccaca agaggagaag cctgaacccg aggaagaatc ggaggatagt 1320
 ggatcagatg aggatctgga agaagacgca tttccagagg ccgacgagga aggagagtcg 1380
 agtgatgagg ccgatgtaag tgaaccagca tactctgctg atcaatgcta acaaggcagg 1440
 tctctccaaa cgctgagcgc aacgacgaca gcgagtctga ggaagaacaa atattcgtca 1500
 cccgtcaaga agaggaacga gaccccgagg ccgaagccga gtttgatcgt gaattcgaga 1560
 aatgatggc ggaaagcgtt gagtccagaa aattcgagcg caaggctgtg tttgatattc 1620
 ctttaccgat gagacgcgtt gcccgatgac cactgcgga agtcacagcc ggaattcaa 1680
 cccagctcc cgtttcctcg cctgctcagt cgtccggtac aatggcggtc tctttgatga 1740
 ccaagaaagg caataagcag cagactcgta ctatcgattt gccatccgac tccacttttg 1800
 ccgttgccat gagaagccag cagcaggccg atagggagga gcagcagcgg atcaagaacc 1860
 tggatttgaa ctatgaaatg ttcaacgaga cggacagtac cgaagggtgg tttacttcgc 1920
 cttatcgcat gaattccaag gagcaggggg aaaagcgcga tgctgacaaa agaataaaac 1980
 agaaccggtt gagaaacgct cccctgccag ggtagacaag tanggcacca accgatctgt 2040
 tttccgctcg cgcaagcttg agcttaatga cttgaattgg agtgtttgga ttgttatccg 2100
 gagcc 2105

<210> 2704
 <211> 2979
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2704

ggaagatgga aaagaagaaa gaaggatgaa aatagaatgc ggtgggggtgg gagaaagaaa 60
 aaagtgaaga ggaaagaaaa agagataggg agattgggaa taaagaaaaa agagaaggga 120
 aggagatagg gaaagaaaag atgtgaaagg agaagaagga aacaacatgg atgtgaagag 180
 gtaaagaggg cctaaagaaa tgagtaagag ccaagaaaga agaggagaaa gttaaaaaat 240
 cgtttataga agagcaggga cccaaaaaaa ccaaggata tttatgaaaa gaagttttta 300
 gaggggaagg taaatatggg gagatgtaa gacatcgtgc agaatacgcg gaacctcgag 360
 caatactgca atataacaac tccgacaagg aaaggaccac cattaagctt ttaagggaga 420
 aagatagggg cggattcacc tgcccttcag acagaagtcc ggctgcaaa ggtctggagt 480

aaatctcgtc accaggcagg gttccatgat cgaggcggtg aagggtctggg acagcaagtc 540
 ttttgaaaat ttcgagaaca agcagtaccg gttcttgagc cctgtcttcc ggaggggtga 600
 gcactatgat ttggacgata tgcattgttct tccttttaca aagaaggata cagcctcatc 660
 ctcgaaaact gttacggcgg gtggatatgg agaagtcttc caggcacata ttcattccgga 720
 ccaccataag ctaggcgata agtctggcga agaggtgagt ctaaactgtt gctgtttggg 780
 tagatttata caacaggctg cttacacatt cgtgaatata tcagtcctta gcaatcgag 840
 tcaagcggat gagcaattat gagcacttca tatctgagcg aacggtatat cgcgaccttg 900
 gtccatcgaa ccatccccac cttatcgacc ttcttttcac ctaccggcat gacggcagat 960
 accaactggt gttcccggtg gccaatagta gtttgaagga atactgggag aacaatcctt 1020
 gtctgcaga tgcacttagc acctccacc tcaagtggc tctaagccaa atgatcggac 1080
 tggcaagtgg tttgactcat ttccacgaat tcacaaatcg ttttacgggc gagaccgct 1140
 tcgggcgtca cggatgatatt aaagctgcaa atattcttta cttccagccg tccgaggggtg 1200
 acgctattct aaaaatagca gacctagggc tggccagcat tcgcagcagg aattctagat 1260
 ctaatgttga cccagaagc atcaagtttt caccaacata tgcaccccc gacgtcgagc 1320
 gcggatgcca tatctcccg aaatttgata tctggagtct tggctgcctg ttcttggaat 1380
 ttgtcaccta cctggtgctc ggaggcaacg ctatcaatga attttccgaa gagagacaag 1440
 agatcactac agagtcttct gagcttgctg ccgatttctt ctactccaag aataagaact 1500
 tgggtgaaacg atgtgttttt tcatgggttg atcgactgaa gaaaaactca cgctgctctc 1560
 atatgttgcc cgacattcta gatctggtca tggctgagat gattatcatc gagcccggaa 1620
 atcgaagctc gtcccttgat atttgcaaga aactccgaga actcatgagt caagttgaag 1680
 aagacgaagg atatcttctt aagccgccac ccaaccctgg tactaccagt gcacaaactg 1740
 cagcagacca gcccaatcgc aatgctttac ccactgaaac catcgtcctg cagacacgca 1800
 gagctcgagg ggtttctact cgctcgaaaa gacacagttg ggccattat atgcaaggcc 1860
 gtgcacaaac taactaacc gccctacctc aaatatcaag gttcaatccc tgtgcttctc 1920
 agtatatcac gccatcagga catcgcatc tgttcagagt ttcttttcaa tccgttaatc 1980
 aatcacgtcg tcacagcag ccatcacctt cagctgtttc ctcttattat atataccaac 2040
 aaccagatat actagtctct attgtttgac ggcgttcgag agacatgtat attcgaaagt 2100

tgaattctcg cagctgaagg acatagagat tgataacggt gtcgctaaaa tttcagcctt 2160
gacaatgaca aacctgtgac ggggtgacagg tcaagatttg tgctcactgg tagcgttaag 2220
ggtcagggct tgtaccaagt acccactaat tgctgcaggt tcttgggtag cctaccggtt 2280
aactgtcaag aactaatact gtagatgac tcattggtcag gctattttct ctgcattaaa 2340
tcactgggttc atctgagtat tagatatata tagcaagttt gtactgtttt ctaacccgag 2400
gtttacctta ttctgtacag ttaaagtttg gcccttact ccaacctgca ggttgaaaca 2460
gggtatctga acccgactga ttacggctga cccatgacgg gtaaccaca ggctgtatta 2520
gggtccactt cggtcaccagc tgctgtactt gggggccatc aaattgtttt taactgacta 2580
cgcccatggt tctccatcct tgcagccaat ctgaagctgc aacgccgacc ccgttgctgt 2640
ctgagaatat gtaagggggc tgtcatcgga gaggcgtgag aagggtgctc gaaacctcag 2700
cactgcaaga agtttggatt ggaacgcgat gacggtcatc cagaattaga tcgctagttt 2760
cgatccggcc gatttttatt atatgagagg aatcccgaag atactggatc gacttaaacg 2820
acttgtgaga gatctatttg gtggctttat cagttcttca gctttggacc caaccacag 2880
cgaaatccac gagttctgga gacccttggc ccactgctag ggagggttct taggaccaa 2940
tatatgcagc tatggctgaa tattacttca ccatccct 2979

<210> 2705
<211> 1827
<212> DNA
<213> *Aspergillus nidulans*
<400> 2705

atggacttct ttgctgagac cggcctttgc gccaggcgag cagccgtcga ggagaccatt 60
tgagaacgaa tggcagaggt gatgtttgaa ggttgtagc ctgaggcggc tggttcccgg 120
ccatgataga acgggccttt gcggttaagc tgtggtgga taaagctctc tgagctcttt 180
ttaggagaca agggaagccc ttgaggagca tccggagtct cttgcctggg gcaatgcggg 240
gcgagctcat ctccctcggc aggactcgtt tcttttttga gcggcaagtt ttctctggtt 300
cgaggttcca ccgcggtgtg tttagattga ggcactgcag gtttgataaa ttctttcttc 360
tctttctcct gacgagctcg ttgtctttca atctctcgtt tagagggcac atcctcgata 420
aacgggcact tgccgagcgg agcactcctg aactgcggcc acacgccgtc ttgtogtctt 480

gcaacttttag gatattctcg aaccatgacg ggtcgtgtct ttcatccat gtcattgacg 540
tatataaaag ggcccttgaa tggtagcaag tctttgagca cagatagatg acttcgggtca 600
gaggggcccgt tcagttcgtt ctggagaact tgtgagagat catcttttcc tctggacttc 660
gtctgagacc cggcggcatt attccgtgta gaatggccac tcccattagt aagatctatg 720
tcgttgatcg tggcaatcat gcgctgcagc ttctctacgg cccagatctt cataccatt 780
tcccagagtc gatgcaggac atcttggctt tgttcacgct taggacaaac ggctaagtgt 840
aaatgcattt ccaattcagc aggattgact gtttcagca tagcaccatc cccagcagac 900
tcatttggtg taccctgggt gtgccccgtt tgtgctcgcc tgtctatctc ggggggtatt 960
ggtcgggatg taacaacatg gggtactaga cgggagaaga acttttcttc acgtataca 1020
tatgatcagt acagagtcaa atacacagtc cagaaaatcg aggggattcg gccaaagacca 1080
gaacaaggag tgatgagata aggaattttt gacgtaccgc tcccaaagca atgacctgtc 1140
gtgagcattt gctgcgaaca tcaattggaa cggcgtcaaa gtagaacaca aagtggggaa 1200
aagccttccg atagtgcctc tgccactgcc tgatcgagat attttctgcg ggcggcttcc 1260
ctgctttgtg ccttttgagg gaccggttcc tggccaagc agccaccagc ttcctttcaa 1320
atgcactggg ctgagcatgg ttcgtctgcg ggtgaacaat tttggatccg tcccttgtag 1380
gcgccgaact tggctctggc cataggctgg ttctccgcgc cggccccgtc cccaacctgt 1440
ttcttcggag aaggcgggcc gtaagggatg tcaatctgtg cactggctcg cgggggacgt 1500
ttggcaggca caaggcctac tctgtgaggg gaattggttg cattcggcac gtttgcaagc 1560
ggacggcggg tcgacatgtt cacggagggt tcgcgcgatg ggggtatgaa tactgctgcc 1620
ataaggtaac aatacacaca ggcaccttaa ggaagaagga gctgagcgc agctcgtcaa 1680
cgaggggaca ccgagcacgc gactaggcga cacgtctcga agagctggga aactgtcgct 1740
cagagaaagg ccattgtaga cgctgagaga aaagcttgtc attaaggacg tcggtgaagg 1800
agacagagcc tcaagaagta gtcaagg 1827

<210> 2706
<211> 3940
<212> DNA
<213> Aspergillus nidulans

<223> unsure at all n locations
<400> 2706

gaaacctgtg gagtgttggg gacccaacgg cattcaaccc gctgtagttc cgtcatattg 60
ttgacacctt actactaata tccaacaagt gatcagtcca aaggcggaca ggggctgttg 120
atgtatatcc gccacgttat ttggcgggag gacaagctca gggacaaaac aggaaccacg 180
gggccgaagt tttgcagatc agcggatgcc gtccgcggct caccgcctgc ctgctgagtg 240
ggaccgcagg acaaaaagtg gcggtcagca ttatcagcca atgagaggaa cggtatgggg 300
tgtgtgctgc actatacgac ggtctagatt cagggcagca tacgcaagag catgagagtt 360
gcctgaaagc cggtatatg ctatatattt gaccccatat atccactata tattaagtgt 420
ggacgtgggc tcaagctgga taggggggtt atggtgtatc acttgcttgc ctactggatg 480
ctcacctgct cttcaggaag aatcgaatgc agggacacaa agcctgcaag gcactgatga 540
tgtggaatgc ggggcatcaa aaaggctccg agatacgagt gacaaatttt caaaaggtta 600
aaaacatgta aagtgtgac gatcgaagac ttctctgtta gactgcatca ctagccgcct 660
ggagcaggcg gccctccact cagcattgtg gccactggtc tctagtcctt agttccttgg 720
cccctggttg ctcgaagtag tcgccgtacg ctatggtttc tgttggcgcc atagccatag 780
ggcccataaa aaaattagga tataataaga cggtgagggg ccatgtcgct gcaggacgca 840
actataaaat tcaagcgctt ttctttatct tcggccctgc tgcgcctga ccacagtctg 900
ctcctcacgg acaaatatcc gctcattttc tctcttgctt agaacaggat gtattctagc 960
cccgttccca tatctatccc gtatgtcctg gtcgaacgcc tagcctatac tcgcgcacg 1020
gactgaccat agcaaaactcc cctctttaga tccttaacct aatcgccag acgtcctggg 1080
ggcgctctaa ggagaaattc ctcgaccatt cagcccttt tctatccgtt tctcccgcga 1140
gaacccttgc tgatcgttcc gacctccac tcgcggttgc tgggccatgt gaggccgttt 1200
ccgtccagag ttggagactg aatttcgggc actcatgacg catcctatcg accatggcct 1260
ccatcacatg ccatcgtcac ctctctctg gccctgggtg ctatgaccac tacgtccacc 1320
accataatag tgatgtccct ccactacatc tagctgcatc gaccttgca gccctagtt 1380
ccgtccact ctgctccgat cccaagcagg acgtatcgtc cattcctacg tcgctggcag 1440
taccagtgcc agtgccagtg ccagtggctt cgcttgatac ctcgtcccat actagtactg 1500
ccgtgctgc ctctgagaaa cctcactctt gccattctct tgaccttgcg gggagcgtat 1560
atatactctc tgaggcaagg ttgagcaaag gagccaaatc caccagagct gcgaacggcg 1620

gtatgcttga ccattcctca ccactgcccg tgtccgataa gctgcggaacg ccagagcgga 1680
 gacggacagt atccccctcc acaaggtctt ccggtgaaat tcgttcgact tctcgcagta 1740
 cccggcgctc tggaggtgga aatggaggtg gtgatggagg tcatagccat agtcgtcgga 1800
 gctcgcttca ctctcaccgc cgtacagtta ccaccacctc cctgacacct tctagaccag 1860
 actcaccggt ccggcggtgag aatctcatag cctacatcg agagtcttgt cgccttttcc 1920
 aggataacaa ccgtgcctct accaccgccc ctgtcaccgc ccagtcaccc ttctcttctt 1980
 ccccgccatt tactccccgt caagcaagaa catactcaa cgtcagctca cctcccgtaa 2040
 cgccaattct tgaacgccac cattcctcaa ctttcgcca ctcatactct tccagcaact 2100
 tacatgccaa ccacggaacc gtcccgtctc cgcgcgtgga agttaatctc tccgccgaga 2160
 caaaaccgac tataatcgaa tggacatctc cctccaccgc gcgccgcgag tacaaggaaa 2220
 tcgaccgcgc gagcagcggc gtccgagggc tctggcgccg cgtcgcaccc cggtggtgcc 2280
 agttcggcga taagcggatt cccttcttcg aggaggaaag ggacggcaaa gcgaattatg 2340
 aggggagcgt ccgcaggttt cggatggatc tcctgatga gctggagtcc ggtgaatatc 2400
 ggaatcaggg ccggcgcgga ctccggatga aactgaagcc gaggttggtt gtgcaagtta 2460
 agaggagcaa gacgagtatg agctggttat gatcgtcctt ctaagtaaaa accgtcatta 2520
 gcgtttgctt cttttggttg ttgtgtggat ggcatacctg cttcatgagt ttgcatgtga 2580
 taccatata cagatacata tacgcataca tagagtcaaa tttcatatca ttgcacctca 2640
 acgccgttgt ttgcttttcc ttgcttgagt ttaaaccatc catgcaatac aaatgcaata 2700
 cgtaggaata aatattcact ggaacagggg tatcaatccn nacactcatc ccaaccaaac 2760
 atgcatgtag ccagggtatt cgccctcaag cctacattag atcaaaatca tccaggttct 2820
 cgcgataccg catgatattc cgcttgatct tgctggaatc caccacgctc acgaagtcct 2880
 ccatgttccg ggtaaccagg tacgccgggt ccgtgacgac ctccgatccg acacgcacat 2940
 gcccttgctc gatgaacgtt acgggctatc accacaatta gcctccgaca aatctcatta 3000
 gggaggaaga gaaagaactg aagaaataaa agggacacgt accgtcttga tgttttccac 3060
 catcccactc ctcgccataa caactagcca gccgaagtca gacaaaatgc gctaaccgctc 3120
 acctcgcgct caattctact caatcctgca ccttgctcac gactttgttt gaggattccc 3180
 atgcgccaca gtttatccag aacctcggat tcagttttct ggccgatggg gtcggaatcg 3240

ggggtcaagtg cggagagctt gtgtgcgagc tgccgcaagg atccgacaat tgcggaatat 3300
 ttctttagt cgacgggggtt ttggaggttag tatcgttga tgatctgaga ctctcgatgc 3360
 gcgtggctcg attttaggt tgtaggtt actttccgga ggagtctgat tgatttcagg 3420
 ttagttaggt gatcggatac aggggtgaaa caaacgaat gagacagact tctgctcgtg 3480
 atgcttagt ttgcggacca ttttgacgtc tagattcgag ttgttggctt gattcgtttg 3540
 tttgatatga gggctacgtt aatgggtgatt tggataaatt ttcgaagtga taactgggcg 3600
 gtgtgcgttt agccggtgca aacgtgtcaa actcgaaaat gtttatctct gatggagtac 3660
 agatcacatg ggctaaaagc gctaaagaga acaatacgtc tacagaatca ggtcataaac 3720
 tgtagtccat cttaggtaca tcataactcg tcctcaactg gagctgacgg cgttggctg 3780
 tccttcgcca aacaaacccc gttcttctcg cgccattttt cccacagggc gtgaaagtcc 3840
 ttctccattc cgctctccat ctgggtccggc aaaatgacga tgaactcaac atataaattc 3900
 ccggggccca gatcgtcatg atcatgaatg tgtccgtgcc 3940

<210> 2707
 <211> 1758
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2707

taaccctact aaagggatcc tcgctggtga ggcgggatgc ttgattcctc ttgcgctcga 60
 caacttagtc cttgacacta accccaagca cacaccggac tctgggagag agagcgcgat 120
 agactctgcy cagacgaatg tcagtgatcg tctatgccta tactgcaggc acgggcataa 180
 ccctatgcag ggtgggggta ttactcatga atactcctgt aagtgccgcc ctatcccctc 240
 gtggattttc agctaattgc ctcttatagt ggtaatacaag tatgcatgca atcccttgac 300
 cgttacttcc tatacaaattg ctgaccacga tgctactgtc gcaggggatt tgccgcaacc 360
 gctccggaag aagctatcca gcagatctcg acgcagtcga ctgcttataa gccaccatc 420
 gaacaggacc agacagtttc gatttcgtaa agaatacaat gacgacgtct ggatccttaa 480
 aatctcttat catgggttctt tgagaccgtg atcagccccg tggttctggg tatattgtta 540
 tgaattatga caggcgttgt acggtatgct gatgcatttt attgtgcatt ggctttggta 600
 tatagtggty acaataacgg tttttagtat tgttatggcg ttttgagcaa atggaattat 660

gcttaacggg tcttggttga ttgtctatct ttgcaattct taatgagtga tgcaagatat 720
aacatcgat ataccctgaa aatatcctgg tactttctat atgtctcatg attgattgag 780
gaagaatcat atctgacctg cagacgttga ctctgcggac aacggtaaac tgccgagcct 840
aaaactacgg agtaagccgc ggaagtcact acttcacgcg tcaattcatc caaaaattca 900
acgatacctaa tccctatctt cctgctttca ggacgcagtc aactcagcga ttacttggac 960
atatccccgc tcgacgcccg aacattcttg gtcgcctgct tttccttccc ctgcgcgccc 1020
ctgcgcccgc tcaagatgga gtcggagcgt accgtcagcc attccgaagc gttgctggca 1080
tggtttaaca gttcgcgtct cgtgggtgaa ccaaagcaaa tagccgaatt atcagatgga 1140
aggataatct gggatattct acacgacatt gaccagaac gttccccga cgtcacggat 1200
cctaagaagt ccaacttggga gaacctggtc acgatacacg gacgactaca atataacatt 1260
ctggatttac gaaagtcgga gggctggccc cgagggtggt atccagaacc aaatctgatt 1320
gagttcgccg aaaacaactc ggctagggac gcggagaagc tgctgaagct tgtcttcttc 1380
gctgccacaa tcaccgcaa gggaaacact gcgagttacg agacatacgg cgatgccatt 1440
cagaaacttg atagtccgat tcaggagagt ctccaggatt ttcttgaaaa tgtggaggaa 1500
ggccagtacg agctggacga cttggcgctg gaatcacggg aatcgagct ggtgaagacg 1560
atcgaggaac ttaagcagga aaataccgtg ctccgtgaga aatacgtaaa gacggagcag 1620
cgcgtgcttg agttagaata tgctgaggaa aactacaagt cggaactgga gttcatgaaa 1680
gagcgcaaaa gaaatttgac atctggcaag ggcgagtttg ggtttagcaa ccgagaccgc 1740
gccagaaga ccaaggag 1758

<210> 2708
<211> 1312
<212> DNA
<213> *Aspergillus nidulans*

<400> 2708

gaacgcgccg acgcttgctg caacggcgca ggtcttgaaa ggcggaagat agtactcgag 60
aagatcgaca gcggacacct ttgcgtcgaa ctccaaccgg ctgactccgc ccattcttct 120
cagatcatat gccgcgagat gcttgcacgt agcaacgacc ttcggcttct cgggacgctc 180
gccctgcaag ccgcccacaa actctttgac atagecgag cagtcgagcg ggtcttcacc 240

ggggtgtttcc tgcccgcgac cccatcttgg atctttaaat ggatttacat tcggcggtcca 300
 gtaatcgatc cctgcgtggt cggagttcga aaacgccccgc gcctcagtag agattatctc 360
 agcgactctc ctgatgagcg catcgttgaa cgcggcaccg agcacaatgg gtgctgggaa 420
 ggatgtcgcg tagctaaaat caccagactc ttcgaaactc acgccgtgtt tttcagcgac 480
 tccgtgcagg gcttcgttcc accagttgta cgcagggaga cctaagcggg agcttcacgc 540
 tgcttcgtgg cccgtgttgt tgattttctc ttctagtgtc agggcagaga caagggattt 600
 tgctcgttcg agaggggaca ggctggcatc gcatatggga agttcagaga gagggcctgt 660
 tgcgactctt gggtagctgc actgacacag ggcggggatt acgagagagg tcagttcggc 720
 atgggtgcag gatttgcata cggtcataatc tataagtttc cgatctctgt gggcggattt 780
 cttcagttgc ttgatagatt ggctgtgcgg ggtagccatg catcgcattg ggctttcag 840
 ctccatcagt tgaatgtata tagtgccacc tttcatgcgg ctatgctact acctttgggt 900
 ttcaatgtgt gctgggtggc agtttccacc cttgtgaagg tagctcttac tatttcactt 960
 gaagcatgcc cacggacaga ggggttggcg tagttgagtc ttttgttcat agggattttg 1020
 ttgactttgt ttgtctacta ttcttgttca tgtacctttt tacatcctat tttctttgtt 1080
 gatttttagt attttttaaa cctctatttt acgttctttc cttgctcttt tctccattta 1140
 tctatctctt ctaccttacc ttaatctctt gctcctatct tctattctct ttatcttttc 1200
 ttcttttctc tttcttttct tcatttgttc atctattttc tcttcttctt tctataattt 1260
 tctcttttca tttatgggtg tctctcttaa tcttttctat ttcttctatt tc 1312

<210> 2709
 <211> 2123
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2709

ctctaccggg cagttacaac atccatccat caatcaagag caaaacaaca caccaaatag 60
 ctccgagtc aagaccatct atgcaaaatc ctccctcgtct aaaacggcac tatcagggac 120
 ataatccgat gccgaactgt ccacttcac ccatatatcc tcgaaccctg cctcaccttc 180
 agcaagatga tcagtatagc tgaccaagcc gaatgtggtc gtagcccggc gggccctgga 240
 ggtgcgcttg actggacttc cgtcaccaac agcatcaagt gaccgctgag cctcctttcc 300

gatccccaag cccaagctaa ctccaacttg aacgtcactg gggcttatga acccagcggg 360
agcagcagca gggcttaagg ctgggggagg cgatgcaatc ttgaacgtag gaaagttgag 420
gagccctctc ccattcttcc tggtaggcgt ttggatggaa atgctgtcga ccttccccgt 480
aacaaaatcg gtatccaatt cgtgctccgc gtccgtagga acaatagtgt cgtcatcatc 540
aagaccata tctcttttgg gttgcgagct ctgggtaggt gcgttcttgc cgtttccgat 600
gatactgca gccttcttcc gccggccaga cctaggggtt gaattcgggg ttctaggttt 660
gcgtcctctc ttcgatacag gagacaaact gctggatcca gcgcgagggc aaatcatgga 720
gctgccattg ctctttcccg gtttaaccat cgcacggatg cgcacgagac gctcagtgat 780
ggcacgggga gtaggtttat cctggttata gatggccgct gtatgttggg tttggtagtt 840
aggcctgaac tcggactagg aaatagaaaa cgggcgacga aacttacgcc agacttcagc 900
aaccttttta ggatccagtc tgaagtcatg agtctcgagg atcttcaata agagctgcaa 960
tgtgagaaga ctgggttagtt tgatgcaaaa gctagactct caaagggtc tgaactaaca 1020
agctgatctt tctcaggagt ccatttcata ggcattgtga tggactttg aggagagaaa 1080
tgcaaaagag gcttgataga gaaagccgac agctcgttta gctagtgaat cagtccaagg 1140
agaaagatgg taaggcgtga ggaatacaaa agagtaaagg aagaaataga ggattaggca 1200
atatttaaga gatctgggag tgagctgtga gcaagattga gggagaagga ttttgtgtta 1260
gtatcctccc ttcctgaatc tactcttctt cacttctcat ttaacatccc tctctcaaaa 1320
tcaacacagg aggagcaata tgcttgtctc tagctacctt aaactcctat ccgctcttct 1380
ttcgatact cttcagtatc tcttatgctg atacttctct ttcaacatcg atatcttgct 1440
tttacttcca cgctcttca cctaccttca tctggctggc cttcgacacc ttccaagagc 1500
tggtttgact cttggactgc actcaaccat ctgagctcag aatctccagt aatctttaat 1560
ggttcacgca aagcttattt tattgtgcga tgaagaacca tgatactct gtacagtctt 1620
ggctcttgcca gttcgctgct aaccacctta tgcaggctgt tatttttccc agtgacaaag 1680
acaaagccag tgtcactatg cccatgaagc atttgtgttt gaactttccc tgcaggagaa 1740
gtttgatacg tttagcgtcc gtgggcgcag tgctctacct agactcagac agcgacgaat 1800
atatgaaatt gtcaagtgcc tttctcactc ctggaagcag gtggaaatgt ttgcgtacct 1860
gaccttcgtg tgcctccgat ggacgttggt aacatggatc gtattgatga ggaactgctt 1920

agactaggaa ctgcctcgac atttggttgg cttgtctgat ttgccgctgg gttaccctgc 1980
accgtcatgt ttgtcgttg cctccgttat tttcagttac atttcagacc tagttcgcatt 2040
ttactgttca aacaaggcga attaccggaa tgcgtagaag catgcgatgg gaatatcatt 2100
attggactga tctgggatga aca 2123

<210> 2710
<211> 1929
<212> DNA
<213> *Aspergillus nidulans*

<400> 2710

acaagcgaga accactttcg ccgaggttca aggccatgag gaaatcagca tcctgcgtat 60
ttttgatgag tagcggggcc cgaccagctg ggcttcacc ttcgcgcggt ctcagaccat 120
ctctgtctct gaaagaagtg tctaggcgaa gttgggggccc tccagcctga ggttgggcca 180
cgtcattcgg ttgattagaa ctctggctat ggctacggct ccggttcaat gagatttcaa 240
tggtgggctc ctccgattcg tccccgcctt caccaatgca cacgggagcg ccatcagcaa 300
atttgactct caatcccttg tttttccgaa tctttaacgg tggtaatgtt gaagcagctg 360
agagcttaga gtctgttgga ggtgatgtac tagaaacggg tgatacagtc tgagtttcat 420
gtgcggacgg ccaccgctga gatacatcta ggcgaggagg agcggggatc tctctttcgg 480
tcgtggagac agcgtgcca ccgtgagaca cggatttcga gcgtacaggg gctaagaacg 540
cctcgacctg ttggtcggca gtattcttgg gcttttcccg tgagaacagt ttctccctcc 600
aatgcggtct cttgggcgct ggtttgggtt cggcgctccac gaatgaagaa ggatcgtcgg 660
cagacattgt ggtcgttatc aggcgtaaat tctcaaaact tgtcaaact actatggcgc 720
attgcagggg tatcaggcga tgataacggt gaggctcgtt gaaggttctt ggccttcttg 780
agaacgtgcc ccgcgtagta acaccaggtg gttacgatcg cggacgaaac tatgaggagc 840
tcggagacaa acgagtatct gtggatgacc ggaatgacgc agtgtaacga tcacaacaaa 900
taggagaggt ggggaagacg acggcgccag cgaaatgtac gtatcgagat atcgaccctt 960
ggcgttatct gtgcggtgcg gagaccggtt gcgagtagaa aagaaggggg aggtagacta 1020
gctgagaata aactccgggg ccgacgagcg ttcttaactc ttccaagag gtgacggtgc 1080
tcctgccacc aagcgtgatt gcttgcgctg tctggtgtgg agtcggggac gagcgatcta 1140

ccgcgaccaa ttattcaatg accattcagg aacaagaaag gagacgggaa gtgtgtaaga 1200
 aggggcgatt gcacaacttc gaggggcgaa gaggggtatt agggaggtac ctggacgagc 1260
 taagcaggag tagttcaaga taaacaacac tcccagatt cgacgatagt gcacagtgtg 1320
 gtggggattc tcagaatgat acttgggtgg aaatgcactc aagaacgagg cttgcctggg 1380
 ctgagccagc agccgtacct gaatgactgt gaagcagtgc ttgaaggacg acggataacg 1440
 gccaaagaaa atagaaaaaa gaaaagtcaa gacgaggag agaaggtggg aagatgcgca 1500
 gggaagatga acaaagtga atggagacaa gcccgctgctg ggactgtgca ggtgggaggc 1560
 agaggaagcc taccgtagta cgaagcctcc ccgaccgcg ctgcaatact ttttactccg 1620
 tagtccaccg ccaaagtatt aacgccacca cgttcctggg taagttatcg gtagaatgga 1680
 ataaaaactg agcctggagt gaccctgtaa aagtccttag gccacggtat ttcaatctgt 1740
 ggtcaattcg ctggcatctt cctgcaagtc tccatagctg cttcgtcagg gtcacgtgcg 1800
 cagagcaagc gtctgagacg acgagcgctt tgtattatta gagctcctat atatatcaac 1860
 gagtccgacg cgtcgtcttc atgcttcatg gtagatgcaa tttcgggcaa tctcgtgcaa 1920
 ttcattgaa 1929

<210> 2711
 <211> 2018
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2711

cctctgcggg ttcgcctatt ttctccaggg cttcgttagc aagcctttcg gcctggtcac 60
 gcgttttgct ccaacagctt gtttatgcta gtgcacatag cagtaagatt agtcgtttct 120
 cgtctgtcca gatcttcttc tcggagctct tgcggccgga ctgcttgtga tgggtcaatg 180
 cgctctctag ctcgtcgtcg tgctatctgg cgcgtacgct tttgtactga gagcgggtcca 240
 agcaagaacc ccgaaactgc aggacgagaa ctgtgacgaa aacaagcagc acgtccaagc 300
 cagtcccaat tcattgcacg tccatcctca tcgtcgtctg ccatgtctgc ctgggtccta 360
 cgtggagcac ggcaccgttg tgtgctagtg atggatacat tcggatcttc tggaccagcg 420
 cgcataaatg aaatgcactt cgacacgaat tcgtcaacgt caattcccac gccgctctca 480
 cccaagtcta atgtcgcagc cttcttgtat gacaagtccg ccgcattgac tagaaggcgg 540

gagtcgattg tcgcatccga cgtttgcttg acatcccga aaatctcatt cgctttgaga 600
aaggtgtcct tgataccagt atttcctggc tgtagatact cattcctaga atctgcacga 660
tcatttatta acaaagtctg aggtagacag cggcaggtta ttattacat tcaaattctg 720
tgtgagatcc ctcagtccct tgcgcacccg cctcctttca gctgcatcct ggtctggatc 780
gtagtatttc gtgctggctt tccgctgtgc ttgtgatatt tgggttccag tttcaatatt 840
cgaggctgta tcccctaggc gttgcctttt cgtgcttttc ctcgaagacg acatattttg 900
gccctgaatt ccgctgttct tgctggaagg attctctaga ttctctttat cggagggcga 960
acctggcggc ggcaaggag atgttggcg gactcgggt gtacgcgcca tactcacaag 1020
gctgatttct ctaacaaagg gcgcgcgca ttgcgagttg tgttatatca cagtttccag 1080
aaatagaaga gtactcagaa tagtagacac aaagagataa aaagcagaga tgacatcaaa 1140
gcattatctg ccggcaattt ggcccacgaa ttcgtcttca aattgaaatc aatggattgt 1200
ctgaacgcgt ccgaaatata ctgcacgtga tgtctccggc ctcaccgagt catctccaaa 1260
ttggagttgg gctctcttta atggcacagg cgttgctcac acgtcaactt tccctaatca 1320
tgcttaagc agccggacag tgatgccccg ggtcaaggat ggaggccttc acttttgccg 1380
tttccgcca agtggatttt ccgatatatg tcaagatgta tgcctaaggg aggacataaa 1440
gagcatgtga aagtctgcta ctaatagaaa tcacagtggc tcactagaag ggaacagaa 1500
gcagatccca ctctcagttc ttctcaagca acctgaattg cgacatatcg gctctgtgca 1560
gaatcccctg tccgatctat tcgtgactgc gcaattatgg tcggagtcca agcccctggg 1620
ggttccattg cagacttctt acaaagcctt caagactgtt agagcctgga atgagtggct 1680
acagttaccg atctccatca aagatgcccc ttgagatgt caactcgcta ttacgatctg 1740
ggacctgtcg cgttttggtg gggaaggagc gaacggccat tacatcccat ttggtgggac 1800
gacgatacgg ctgtttgacg atgatggcaa attaaaaacg gggaagcaaa agtgcaaggc 1860
ataccggcac aaggccgcag atgggttctc ggcgacgacg acgcatcaa ctccatcgaa 1920
aaggcgaagg ggcaacaaac cagatccgct aggtccctct ccggaagagt tggagtggga 1980
gagagtagaa gttttgatca aaagcatgag atggagag 2018

<210> 2712
<211> 3486

<212> DNA
<213> Aspergillus nidulans

<400> 2712

atcactttat tcgtagacat gtcttgcagg gttacggatc agagacccat cgtatctggg 60
atatatgctc gaaaccctac atagcgacgt tctactctga cagcaaaggc agttaatgcg 120
acaaattcgt actcttcttt acatcatcac attataatca gtatcaaaat agcgataacc 180
gagttctgtc agctatgaac cgagaaattc cagggtttta ttatggtagc gctctagaac 240
cgcccatctt agacacatcg ctaactcgct tatagatcca gagaagaaaa agtacttcgc 300
gattcaggca aaccacaaat cagcgccagg ctctcagtat tctcaagacg tegtcaagcg 360
gaagcgcgct gatgaggagg ttgttccgat cccggtagaa gacttttatt ctctgtgcta 420
aactttctat agaaacgcca acggaaagct cgcctgggtc agaggtagc aaaggaaaca 480
attaagagag caacatgcct gcaacatcct ctcatacaag ccagaggga agtaggggct 540
cttcccgat ccagtcttgt agaacaggaa caaagagggt tggcatatgc gagccagttt 600
cagcgaaaac aattacatca gttcgagccc tggccggacc agtacaccat taagcatggt 660
gtgcgtaatt cacggctcgg tatcttgatt gccagtgagt gtttggctac ttatccgctt 720
catagactca atcaagctga tatgctctgc aggcggacat cgcggtggcg agtcgtcagt 780
gtcgtaagtt gagccttgcc ttgtcgcgag gacatgacac tgacagcggc cctgcatcag 840
tgtttgcttt ccggattgtg atcaggaaac atggacgtac aatcgaacca tggagcggct 900
gctctttaag gaacagtata gggtaaactc gtcctgacg gcctattctt accccagaaa 960
ttaatgcaac cgcgcagctt tcatcgctct ctttgagcca caccgggtat ctcttgtag 1020
gatctcttcg tccattaatc tgctcacacg actaataaga ctaggcgac catggacagt 1080
ggtccaaacg ggcactcctt ccttgacccc agaatgcttc ccgaccctga cgaaggcgga 1140
gactatcgat ggccgccatt ctgtatgcag aattccatca ttttaacttg aaaatataag 1200
ggaaccacta acggaccaac agtctctcat ccgatccgca tccacacaac ctctccctc 1260
tggtgttccg cgccatctcc aacgggggac attccccggt ttgcagtcgg cacgtctgat 1320
ggtctctaca ccctcgaagg cttcggaagc tactggacat tatccaagaa gccctttccc 1380
aatgacaagt cttcaggcaa ccctaagaag cgcgcaccg actcctcgca cgcccttctc 1440
acagccgttg aatggctctc ccagacgtg attgcggccg gtctcaagga ctccaccatc 1500

tttcttcacg acgcccgcgc tgggtggaagc gcaactagac ttcagcatcc ccatgcggtta 1560
 actaaaattc gcaagctcga tccgtatcgg atcgttgtcg ctggtataaa ctcggtatgc 1620
 atgcattcat ccctttatcc aattattcgg ccctcttatg gcctatacct ccagtagtcc 1680
 atctttgccg tttgattata tccatgccgt ctaacgagac ttgcttcaca gctgcaaag 1740
 tacgacattc gctaccccc aaataaccta caacgtaacc ccaacccaaa caagagccat 1800
 cacacttcga ctgccccta cctgaccttc tccaccaact accccgaagt aaatatcacc 1860
 ccggatttcg acataagccc agaactgggg cttctcgcta gcggttagtt tcccacttct 1920
 tgaatatgcc ctttcccaca ctgacaaagg atgttggtat atacagcttc gccaccgac 1980
 agggaccgta cggttcagct ctactccctc cgcaccggag agcaggttgc ctcccgcctt 2040
 accagatatt gataccgaga ttccattaga tcagtgtgtt tcgagtctgg gaatcagtcg 2100
 gccgcgcacg ggtcccagac acctagtttg ctggtttgtt cggaggctac gggtgatgag 2160
 tggaaatggg gacgttcatt ttgacgaacg aatggaattc aatggtacag cgcttgaaac 2220
 ttgaggtatt ctaaggaagt ctgatgagtt atggccatgg ccgtagttat ggtacaggg 2280
 aaagaaacgc tattagtatt cacggtaact acattgatag ctaagcgagt catgcccgc 2340
 gggatttacg cctacctatt tctaaccgca gatatgcaag ctattgttac atcactccat 2400
 aaaaaagtaa ggtgagagaa agacaacaag agtcgtaaca ggtgtcctgc cataaaaaa 2460
 tcttaatcaa gccaccagc taaccactcc ccgacctcaa ttcctattcc ttttgccatc 2520
 tctccgatcc agtcgccgga gacatttaca caccattttt ctcccacgtc cgccgtcgtg 2580
 ttcccgtgtg tgacacctgc ggaaccgaga cccaagcggc tcccgttgc acgtccagcc 2640
 gcggggacaa ctagtcgtag acgacgtagc gtggcaagtt ctgagtagac cgagtcagct 2700
 atagcgggta gccgtagcgg atttgcaggg ggattggggg ttatagcatg gtagattgca 2760
 atgagtcttt ccaaggggaa aggacgagcg gttaggatgg tcgatgggcc ggtgataccg 2820
 ggaccaccgc ctgcagcaga tgctgtggcg gaagtggtag caaaggcatt ctcaagaatg 2880
 gatttgggta tacgagtctt tgtccgcttg cccaatcccc ttcttcgttt ggccgggtgct 2940
 tgcgcttcct tgtcttctgc tgcttgccc tgcgagagaa ctttcaagcg gcgtcgggtg 3000
 tgagcacggt tgttccgcgc agacaatgat gaggaggaga actttgagaa aaagattgtg 3060
 tccagtcttt gcggagtggt agaggctaga tatgcggatg tcaggacaag agtagcgaag 3120

taaggtaagc ttggaagagg tgaaggtgct gagatggatg ttaataagga tgatgggttta 3180
 gcgagtgcgc cattctgggt agtagaaggg gcgtcctccg taactatacg atggactaaa 3240
 ggggcctcgc cttgccgtct aaacaaggaa cggtttttga ctaggagccg agagaaatcc 3300
 cactcgtcat taccgccagg cgcgggtttc accgctgggtg atcggggcaa cgaactgcgg 3360
 ccacagcttc tcgcatatag acttgaatac cggatatagaa cttgcggttg ggccaccagt 3420
 gaatcgtaca cagcggagac aaagtaggga tagagttgta atgaagtttc cgcggcagac 3480
 caggta 3486

<210> 2713
 <211> 1500
 <212> DNA
 <213> Aspergillus nidulans

<400> 2713
 tatttcccga gctctgagcg gcgtggagac caagaggcgg tcgaacagag atgaaaagcg 60
 gtgtttaga tcacagcagt aatcaaaaaa accagacggg aataatgcaa gtggataacg 120
 gaggggttct cttattatgt gaggtctgga caaacaagag gaggccctac gctgttgctg 180
 acacggagag cacctgcagg ctggaaagtc tgatgatgtg ggatgggatg ggatgagcca 240
 ggataaatca ccaggtatag gaccagggcc cgaagagagc gacacagagt gaggaactgg 300
 gaacggaaaa cgcgaaagcaa ggaaaaaaaa aaagagagag agcgacagca gtttgtatta 360
 ctgcgagagc aatggatgat tctgattctg aaggagcgac aaggacgcgc gagagtggtc 420
 agagggacaa cgcgaaaggg aagaatcaaa cagcgccagt ccgggcagtt gtctgttcgt 480
 gtcttcagac tctggactgt tcgaacgtct agcctgccag gagaactaac gccgactagt 540
 ctttttagagg cagacgttat tcgacttcat tcgacggccc tgacttagcg ctgccaccgt 600
 tggteccgta aatgtaattc attaaatttc cccgaaattg gccggaacag cctccaaaca 660
 ggatacgctc aatgaattta acatggagaa taaacaatat taggatcaga caaccctcgt 720
 ataggctcga aggatagtaa tataccgtcg aggggcaata atcgcataga atcctaaaga 780
 ccgtacttca tgggggtgccg cgctaaaaat actcgtacct tcgtcagcgg ccagccctgg 840
 tgggtgatga agggagatcc accgccgccc atggaaaagg agtttgtcag gcttgagcct 900
 ataatagtta ccgcggttat gaagagcttg ataaatcctt cctccggat atccaatacg 960

tcgcaaaaac aaatgcaccg ctttagtata acacgggaac cacctcacct catagatcat 1020
cacgatgatt cctgcccaat tatcgaaggt actttggatc acccttgact acgtagtcgg 1080
aggatttggg ttccagctct gagaccgaga ctgggtatctt cgaggatgat gtctgataca 1140
gcgcgtgttt tactagtatg gcttggagct taggcccatt acatcgacct tacgtactgc 1200
gtcgtcctgt caatactgat ctagccgttc ttcttgctgt cctggagctc tggtagta 1260
aagctctcgg agagccttcg gatcgactgc ggccgcccgc cgggtacacg gtactcttat 1320
gtacaccgac aaaattgagg ggaagcagcc agacactaac ttaatcagac ggactatctc 1380
gtgcgcggaa cttccaggtg atcggtaccg attctcgtaa agacgtgggt tcgagggctc 1440
caagcctaag ctgttttagtg aggtcactcc cgctgggcgt tgactgatca gaaagggttat 1500

<210> 2714
<211> 1620
<212> DNA
<213> Aspergillus nidulans
<400> 2714

ctgggtggcg ccgcgtacgt ctctccggga cggctcaaca ccagggttc cacggtgaag 60
gacccttttt gctcatgctc gggtagacaa cgctgccgtc ttctgctatt ttgcagtctc 120
cagccgggaa aaagacaacg aaaaagatta gattctgaag cgggtttcaa aaaaacggtc 180
agagtggcg agaaatcaaa ataacacttg cgtaacgtac aggtggcagc tcagctatgg 240
cgttcccagg ttcaggagca gaaactgacg gaagctgcga cggggagagt tgaggaaatg 300
cggggagacg gacgcagacg gttcttaagg agagccgcgg ggaaaggaac ggctaaggaa 360
ctagcacgta ggctaagga aggtttaatg aagccgtgtc tcgtggggag aggtgagagg 420
taaaaggcca gaggtggctg gactggccgc gggcaatgaa gtcactccgg tcgctttgca 480
tagccgcacc aaagtgttc cggttaagtg caacgggctc cttccttga aagctgtcgg 540
ttcaattacg gttcgattat ttgattcggg gctatgcaac cagaggtaca agcgctaatt 600
tcatttcaat acacaatagc cagcttcgcg tattcatcct gtactgcat tcatattgtc 660
tcgtactca gtgttttggg ctgttcgaa ctgtgtccaa cagcgtacag agcacagaca 720
cagcaggcac aggacaatga atgcatgtct ctggctacac cacggcaccg cccagaaagc 780
ccagaaactc tgtcatttaa attgagatgc cagggtccgc ggtacactca gacacatacc 840

ccggtcttga gcttctgatt ctgctcgta ttcagggtccc tgagcgcac tcatttgcac 900
 caggcttctg ttgggatttt agccccaacg ccgtctcgaa ccgtgctagg cggatgatcg 960
 tcggagctct gtcagaaatt gaaatgactt tgatggcgcc tcttatcgcc agaacacgga 1020
 ataaattcta atgaacgccg atgcactttt tttggttttc agaactctct tataatctga 1080
 ccccgtaag cctgctgcca caacaccggt tgccagatgg cgacgcgatg ctgtccgttc 1140
 gtagggtcac gtgataaacg agcttccatc tccccacac tagaacaagc caatcacaga 1200
 atctcgcttt ttcaaccctg ggaggaaaaa gtttcaactt gacctaactt atgtcgcaag 1260
 agagctcata gccgtcatcg ttcactagta gctgaagtgg ttacaggggt attcgccgag 1320
 ctgcacgtag tcaacaaaat ggggtgacct atcagcttcc tatccaccat tggccaagag 1380
 gtcgaagacg ccgacgaggg tacgtcacag tggacctggg ctctgtagca ctattcccaa 1440
 aaacggtagt tgatcaataa atggaactct agaatccttt ttctcttttc ccaagacatt 1500
 cctctctcaa acctcggtt tcgtgactcg aaagcgtcaa ccgtccagat caccgtccac 1560
 gagcgcgagt aactgtcca ccaatcggtc acattactct cgtcgtctcg tgctggcggg 1620

<210> 2715
 <211> 1102
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2715

ttcttacaat caccgagtca caaatgcagg attgcctgta gggcggtggg attagttata 60
 tcgcctcaag tatagttgga gctccatctc cagctatcgg cgtcacctgc gtaattcagt 120
 gtccccgcat gcctcgcatc aattccgatt ccatcattgc ccgtaccata accttgcgct 180
 attattctct ccatcgactg tttcagaggt gttccaatcc cgtaatctct tgcgggatgc 240
 agctactggc agtagcagcc tgtatataac cttgtcgcta caacaaccgg atttcagccg 300
 gcacagacgc agaacaggcg aatctcaaca gtaagatcag atgagacctg gcgaccgtca 360
 gacgacaatg atgaaagtca atattatgcg cgacgggtacc tacatccatc aacgttggag 420
 aggatggcac atgttttgac aaagtcagtc aacgatcctg cggacgagag cccggctgag 480
 gtactggatt cgtaatctaa cgtataactg gccaatcat tataagcatt caactgcgaa 540
 aatcaccagc aagtatgctc ttgtcaagcg gaagctggag gacagaatgg aaggttacct 600

cccagcagtg tttggattag taatgcactg tcccaatcag gaagtaccga ggaatttctg 660
 gattgccagg atctcgtacg atttagccca aagcgctcta gcttcgatca cggactgtcc 720
 tctcgcttat gcttatgcta ggcattgcacg ataacctccc tgaagaattg cggagattga 780
 atcgtaccta ctaactggga ttctcaagcc acctgcaaaa aaggcgtgaa gccctactca 840
 ttgcataat aaggctcaag ccaagcggcc ccaatccttg gaatttcggt ctgattcagg 900
 taagtcattc tgataaactc gagctaacca atggctaacg cgtcgagctg aagattgtcc 960
 cctgctaggc ttccccacat cttctaacag ttagcccaca cggattcatg gggctgtctt 1020
 gggctcgggt attgggagtt gcgatggagg agctcgcttt gggcgtcttt gtcaacgaat 1080
 ctcttaagca ctctgcagat cg 1102

<210> 2716
 <211> 1977
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2716

gagctggtag acgcttcggc gtcagttgga attttactag tttggtttgt agtgtcggcg 60
 acggccgatg aaggggatgc agtttcgtca ttattgctat tgctatggtg ggcggaaaag 120
 gcgcgtgagg attcgacgag ggttgagcgg atggaggcga gcccgctcgtc gaggatttcg 180
 ttgcgctgtt ggaggtggcg aactgtaagt tccatcgagt cgagtcctggc attttgggct 240
 tcgaagtacg ggcctattga gataagagga caactctgct cgtgagttcc tagttctgca 300
 cgcttcattc tgatggaaca accgtatttg gatgcggcgc aagggtgaac cgcttcaggg 360
 caggaatcga tatgttctcg gagcgctttt cgaaagacgg ttacctgaca atccgggcag 420
 gttgttttga ggctagggca tagttctttt acgtgctcct tgagtagagt ggtagcctt 480
 cgatatatgc agatctgacc gggatatatt ctgtacctca taatcctgct ccatgatatc 540
 cgcgtcgcag cgcagacatt tgtggagttc atgcatacat ttattctccg gactaaggtc 600
 cttcttgcca gttttctcat cgcaggaagg actcgggcag tccatcaact tatactgca 660
 gtacttgtct gcatgggact ggatatggcc cctcggaaca acctccttgc atccttcagg 720
 cgaaaacgga caccgcaccg gaagatcatc gcacatgttg ttcaagagtc ggggaacgtt 780
 gagatagaca tcccgtgtag gagtgcggca tgtgggacag gtgaagtcgt ctcgccggg 840

agcaaaagtt ctgatagcaa agttcaagca cgtctggcag aacacatggt cgcaccccag 900
 gcgcactggc cggatgaaag ggcagtggca tattggacac atgagatggt catcatagtc 960
 agagatgtac tcaagtccgc gcaggtcgat gagtccgtcc tggtegtgtc ccacctccat 1020
 ggcgaggaac tggtegtgtc tcatgatgaa ggcaaggaaa ccgcgcttcc tcccgtattt 1080
 ctatagtata ctggtaatga cccccctgcg acggggagat gtgtctcaag gaatcgtccg 1140
 ctggaatgtc gtgttggttg ggggttgaaa caatagcttc gaggacagc acatgagtgt 1200
 cacacggtgg ctggaatggg ggggagacgt cgtgaccag cagatcagcg ttcgttcagc 1260
 agcgtaata gaaggcgaac cagcggaat gatagcgagt ggaatttgat cggcgtggtc 1320
 gaggaagtcg gaggtggact ggacagaagc gggagttgaa gcgggattgc ggggaggcga 1380
 gaaccgtcat cttctcttgg atgggtattc cagggttaga ccttgaaagt gcctgtatt 1440
 tggcgcaata gatcatcaa atttcaatca agatagatat attcattaat gacactattt 1500
 cggctcttct tgttctgttc gtcaacattc tgcactctcg ggccatctgc cggtcgcaac 1560
 ttagcgctga aactctctc cgcagttgcc tatcgctact caatcagcaa ctttcatcca 1620
 tctctgtac ctcgacatcc tcccctgcat cagcgaccat cattgtctga catctcagaa 1680
 tgccaaatcc ttcacagctc ttctccttg ctgatcacat caagctctca ctctagaac 1740
 gcgagcgggc catctcgctg agtctagaac ctaacagcca ggatgggtgag atatcccgtt 1800
 cctcagagtc cctgcgagaa ggcacgagg gtgtcgaagc ggaacgttaa gcgacttgaa 1860
 gaatcaaatg atgaaaaggc tgccgattaa aaagaccagt tatgcattcc cgtcgaagcc 1920
 agcgattatc gtcgaaatcc gcggcccacc gttcatccgc cggggcgaag catgatc 1977

<210> 2717
 <211> 803
 <212> DNA
 <213> Aspergillus nidulans

<400> 2717

cttagcttaa gcgctcttgt gttatcccca ggtccaccac ggggtcgtgt tttcagccca 60
 cagtacttag cagcatgccg tatcttctat caaggcata tccccattca gtatggatcc 120
 tgcctctggc atagctcaac aatgtccatt ttcgttgggc caggatgaga cgccaactcc 180
 tgcggcttcg gccagttac cgggtgtttt agggtagctc gttgcagttc tcagaggagg 240

aggatatgcg acaacgaggg ctcatagaat acttgggaat ctgtgcggcc gtgtttctca 300
 tgttctatgg cgaagccagt ggcatatata ggctatttcc tgatttggag gacagcttct 360
 ttcaactcgt acaagagagt gttaggcggg ttattcttac acagtccatc cgtagttgca 420
 gctcgagttt cgctaategg gtgatttgag tcatagaagt ttgcctgatg ctcaggggaa 480
 ccagagaagt tgacagtgtg cggaacgcga ggatgataag acagcggagg ggtaagtgtt 540
 gatgctttgt gagcaagctc tgtaatttca gtggctggag cccaccacaga aagcttgtaa 600
 ttgcaggctg tattggagag ggttgggact gtggagcgag taagtgggcc aagtcataga 660
 gacttgatg aactacacca tcgacaagta cctagggctg ccatatcgct tgaagtgaga 720
 acgcttgatt gtcaccggac ctgaacgcct agaatgtcat cgcttgact cctgtaagct 780
 gtaatagtct tgtttactct att 803

<210> 2718
 <211> 1088
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2718
 ctaatcacgt gtacagactg tgtccagggt atactacatt tctggctctg aggtcgagcg 60
 ataccagctc cagatgccgc tattgacccg attgcatacc tacaacgagc ctacgaagag 120
 acgacacaag ctacaacatc tccgagcgaa tgggttcggca cgacgacgtc ggtaaccgcc 180
 ctcttgacac aaacgttaga tggcagcggc accgagaagc cattactata cgtgacgaat 240
 ataggggact gcaaggtctt gggtatccgg cctagcgaga agaaggtcat tttccgaaca 300
 gaggaacaat ggcactgggt tgactgtccg atgcagctgg ggacaaatag catggacacg 360
 ccacaaaaag acgcagtgtc gtcgctagtc gacctggagg agggcgatat agttctcgcg 420
 gtctctgacg gagtgtctaga taatctttgg gagcatgagg tcctatcaat cacgctggag 480
 ggtctcgata aatgggaaca tggccgatac aatgacaagg agctcgagtg ggcaccaccg 540
 gcagtgtctg cggaagagca aatgggtgtc ctggcgaggg agctactcaa gtctgcgctt 600
 gcggtggctc aggatccgtt tgccgagagt ccttatatgg agaaggcggg tgaagagggg 660
 ttggctattc aggggtggta gtctgactac atatttgact catcagaacc atcgtctgac 720
 tattttcgat aggaaagatg gacgatatca gtgtggttat tggaatgtgc aggaggcgta 780

tcggcggaagc agaaacgagc catacgaggt tggctgagaa tcagccggct ggttgacttt 840
 tgttcaattt aacgtgatac gaattcgaag acattgcatt tgttggtata tggaggacgg 900
 caacaataat cgagtgttgc atttgcattg tctggcggtc tggacatatt tgtcgggtact 960
 cgggagtttt ataacatatt aatgatttac cagagcctcg gggcatcatc aataaataag 1020
 tcaatctttc aattcgtaca gctctctaga tagtgcgac ggagcagctt acatcaggta 1080
 tgttcgcg 1088

<210> 2719
 <211> 593
 <212> DNA
 <213> Aspergillus nidulans

<400> 2719

cacgtaacaa gtcagatagc ctgcaagttc tatggacaga attatgtgta tcagtgaatg 60
 gattagaatt cttcttctct tcttatcttt cacctgcttg tggttaatga aaaaataaat 120
 aagaatcaga aaaaatattt ttgttagcgg cagagatttg ggctcttcga gtcttctctg 180
 ccaagcactt tgctgagat gtcattgtgac ctgtatagat ctgccgggag cgtgactgcc 240
 taattgtggt gcttagctcc ttattgcaac taactaatgc ttgaactgag tctcaaccag 300
 tcgaccagga atgccagtcc atatgcaacg cggaacgcgg ttgggtagt ttagcggcgc 360
 agtatcttaa cctctttagc ttcatgtgcg cgcgccccgg gcgggggctg tgtcaagggc 420
 cctagagccg ttctaccagc gaccttggaac catataagga cgcacatcgc cctgatctg 480
 gcatccagca accaccaag atgccaggga cactcgctct cgcaacggcg cacgtcgcaa 540
 ttattttaga cgggcgctg gacgcagaac cgcaccggcc cggcgatata atc 593

<210> 2720
 <211> 3155
 <212> DNA
 <213> Aspergillus nidulans

<223> unsure at all n locations
 <400> 2720

accagtgaa tagggaaagg acgccgaaga acagcgcgag gatctcgaac ggccatgaga 60
 accgtgaagt taggaagtag tggtagtgac tgcagacggg gtgtagcca aagcggatta 120

gatctttcag tacgattttg cgactcaccg gatgaaggca gaaggaatgt tgacctcagt 180
accgaagtta cgatggctgg gaggggtcaaa tgggaagtcg ggggtgtgagc ttccacactg 240
actcttgcca tcttcaacag cgcacagggt ccaccagggtc catcgtgaga gagtcgggtgc 300
accagggata ttgctcgtgt ccacttgaag gaagtagatg ttgtcaagcg ggggtgggtgtt 360
ccttacaccg gccaggaaga cgagccacat caggagaagg gctccggcag taaagaagag 420
gccccaaaagg cccaaaacag ctctaagaa gatgatcagt tagctcttgc acacatcagg 480
taggaactgc gggaggatta ctggaagctg gcattatgtt ctcttgctt ctgtatctgg 540
ctggggacgc ttgatgaaga aagctctgat gagagacgag tagacaaaat ttggattatc 600
acggcctcaa aaggcagtca agattgggtat gcaggaccgg gggctgggaa agttgtggaa 660
ggctgaaagg aatggaatgt cgaaaaatgc ggtctggaaa tcctattaaa gaatccggag 720
actccggctc cagatttaga gccacaggc cgatcgagag atgaatgata taatgctggg 780
caatgcatca ttattattgc tacctgaagc ttgaacgatg aagccgaaga ctgagtgatg 840
atctcaacgt catcccgtg gtctgaggct agccgtataa ggtatagcgt ctgacactat 900
gccttatcag acgctcgtca gtcgatatcc atgacgtcca acctcagtc aactcgatcg 960
gcaaaccag tcaactgacgt tgcaccaccc acgaccaatt ttcgagggcc cagtcaatac 1020
gctagaagga tctacgtgga ggtgcaataa ctctgttgctc aaaattttgt ttctgcctgc 1080
ctggttcagc cgatcttctc aggagccacg atctgggcct actctgtaga cagaggagtc 1140
ggttctgaga gctgacgttg aatctcgttt tcgtctacgg tataggcgga gatattttgc 1200
gctggaccct tgcagcttcc cgtgggtccg agaagatggc cacttgggca taccacctg 1260
cttccccaga gcgtctgaaa caggaagccg attctgcttt ggtatgtttg cgctacaccg 1320
ctctgcacca aatctacgct tgtgtgcaat actaaaggta tattgtagaa acaagagctg 1380
gaatggctac tgcgctcgtt gcaggattct ctgcttctc tgagggaggg tctccatgaa 1440
tgcgcagcgt tgctggcccc gaaagagcct ggttctacct tgggtattatc gtcaatgcga 1500
tccgagaatg taaagggctt tgtgacaagg gttggcacca aggttgtaaa gggggatgt 1560
gtcgagtgat aaccgacctc cctcacggga atgattctaa tcgtagtctt ttgataggat 1620
attcagcttc gtcttagttc cctcagcaca agaggcgctc ccacaacgag cctatgtcta 1680
tcacagtctc ctgaagcgcc agaactggca cctagccaac tgggtgctggc cagggactca 1740

gtccgncaat gtctagacat tgtggatgtg agcacttgga ccggcgaccc gcttgacgcg 1800
 cgcttcatat acagccaact tcatctcctc ggagagacta ttgctgaagg gcggcfaatg 1860
 ttgaaggggtg agaacgatat cgttcgaggc aagtgggtggg agacaagtgc gcctgacaat 1920
 gtaagatacg gcggatactc gttgcttgcg atgactgact ggagtaatag gtgttcgacc 1980
 cacctttacc accacatctt tctttccacc tgtcaattgc agactccgcg ctggtgctgt 2040
 atctcaggac tcttgagtct acaacacagg ccacacgcc tactgcattt gcgacagaca 2100
 tctcgttgac cggattctct atacgtgatc gactattcgg ctctcgtaga ccttctcatg 2160
 acgaggctgg agatgtgttc tcgtggaagg gagatgaagt caaagtcagg gagaaagtac 2220
 gcgtagagag ccaagatccc agtctcatgg cagtaatggc caagttgagc gcacttcacc 2280
 acgagggtgat caaatgcaag actgctctca aagtcctcat gggtagtgag gacgacacgg 2340
 atatctagct aagcatgata ggaacctttg ccttcctga actactggag tcgctgaata 2400
 tacaagtata agctttttgc tatctaactc ttgcttgccg gtccttgctt aagctctcta 2460
 tgcggtttta tgaagcgcac ggaccgttta tgtcaatact tatgtaacta gcgtaaacct 2520
 agtggccaat aggacgaact tagttacttt aggttagcat tgattttctc aaagctctta 2580
 cagtggcaac cagcttttta ttagtccgg cttcttgctc ttcccagggc agcagaaggg 2640
 cgaaaatgct gtcgcatct cctgctttaa gggctacccg ggctaagccc aagaatatca 2700
 ttattcccgg atatggctcg ctacacgctg gtcgcgacg gctccgatgc agagcgccaa 2760
 ctctcacgaa tccccagttc agcaccaaaa gtacagcaaa tgcagccgat tctctcaa 2820
 caatacgcca ctccggtcg actccgaata cctacaaatc aggacacttt gtgacgggac 2880
 aacggtactt ctcttcagct aaagaagcag actcgaaaac ggagcccgat gatgcgctct 2940
 acgcactgat tgataaaatc aacaccacag aggctgaaat actggaatta ctcgatgagc 3000
 tcgacctaac agatgagtac tctgggtcag gttcttcac ccaagaagtt cttgatgaag 3060
 cctcaaaca agctgcctac cagctcgagg agcagacagc ggaagaacga gttcaccagg 3120
 ctagacaagc cttcggcgac acctaacgg atgga 3155

<210> 2721
 <211> 2380
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2721

ggaatataga agagatgaga ggataatgag agtgaaagag acaaagtgag atagaaagca 60
aaggggaata agcagtataa ggagcataag atgaaggaga ttgatattgg aaaagcaaata 120
agagaagagg agagagaaga agaagggaag gagaatagag tgaatagtgc gagaggagtgc 180
ggaaaggaag ggtagaaaa atggtgagag gagagtaaaa tgaggaggagg gacagagtga 240
agagaaggggt aagaagtaag agagaaggaa agcagaagag aggtaaagag gagtgcataa 300
gaggaaaagg taaagagcaa ataaagagaa gtatggggga gaagatagga agatagagga 360
gaatgagata aggcataatga tagaaatgag acgagacggg tccatcaata ctgagaggcg 420
gggagaccag cttattcgcc atcgtcacca ttacaagctc cgcccagac atcactgtgc 480
acgccaatct cgtccttcaa ggccctgaag ctgaacgtgt ccttgagatc ataacttccc 540
aagatgtcat cctctccttc accattacca tcgtcggcac tggcgccat gatacccttg 600
ctcttagact tacggatccg atcaatctcc gcttctaatt tctcgccac tgacccgggc 660
ggcagcgcg tgaaaagatc ctgcttgta gctgcaataa gcacagggat ttcagctgca 720
gccctggccg acgacttgcc ccgctgaagg gcacgttttt gaagtatcaa aagcacatca 780
tagaggtagc aagcggcatc tcgcagggcc tcagtttcag agatggccgc ggtgtcgacc 840
atgaaaagaa caccacgcag cctcgatttg gtatcttttg ttgtggacat cgatacgagc 900
tcggagagac cttgcgaacc tctcaatctt ccatggccgg gcgtatcctt aacgcggtat 960
ttggtcggt tccgttgagc ctctttcaag gatgtgtcat tgactgaccg gtacttggtg 1020
gatccaattg ggacggagac aggaaggcga atcgtagcaa gggttgaggt ttgagaagta 1080
tgtgtaggtt gtgatttcgg ctttgccgca aatgatgact ttgattcaag ctgtccaaaa 1140
caagtggta gccaaaaata gcattcactc tcgacgtccg cgggcagata cataccaaag 1200
tcaacagagc agttttacct gctccactgg gtcctagaag gaggaaattg cttgacggcg 1260
gagaggctac cgtccggtag aagatcagat gaagtagtat agggacgccg atagtaatga 1320
tcacggcgac tgcaatgctg aaaaggctac cctcaagcag ctttgtagct actgcttcaa 1380
gtagttcgta ggcagccatc gtgtgactgg cacagctgaa aatgtaaatg ccggtgcagg 1440
taaaagaagg atgcaaggag aatcaaattg aatcgatttt attcattacg tgggcatcgt 1500
tttaaagaag gcctctagac tcctcaccat tcgaggttca agccaggagt ctactccaag 1560

atagtggagc ttgtttccca acgctacgaa ggaccttcag tggtagagat cacgccacct 1620
 tgaacaagct tactgatgcc tcagtattga ggcaaaaatc cccgatgctta tctgccttat 1680
 tttggaggca ataaatgctt tgattcaagg gtctgcatac ctggagcttc gaagggggat 1740
 gccaggacga tcgaagacag aaaatgaaaa taatggagct ttctattcat tgctctcctg 1800
 cttgcgctcc ctgattctcc tgattcgatt ctgtcatcct tctttttgaa tcaacctgtt 1860
 gtcgagtttc aaccgtctaa actatatcta gccgtacatt atgcgtctca actacatata 1920
 cacagccact ctaactctcg ctctggcatt aagtgtccta gcaagtaccg gcgggttttc 1980
 cagcaccaac acagcgatcg aaactcgcaa tattggaaca gcagagtga tggagtatga 2040
 ttcgttatcg ccagatctaa actccgggggt agaccacgga gcaggtgatc atctgcgcc 2100
 tcaaaaacga aaactcgttg cagaccata taaagttccc taccctttgc agactggccc 2160
 aacaagatac gccccgttgg ctaagaagcc cgggaccgag actgcaacca ccttgccaac 2220
 gcctcagttt ccagctagcc cgtacaaaat tgccaccaa tacctgaacc ctggaactgt 2280
 tcagactaca cttagcgcta ctgagacgct gtctgtcacg atgatggaga acacagtacg 2340
 tgaatgcgct atatgttctg cagaccccc ctgatgctct 2380

<210> 2722
 <211> 1188
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2722

atcaaata agcggctcaa tgtcaaggca agttgtagc ttggtcgatg ctccggtcgag 60
 gacaaaagcg acctctatgc atgtgacagc cagctgggct gggcaatctc ctcttgctct 120
 gctgggttat cttcatattc cgccgctcgc tttcgcaatg acatgcatcg cctctttggc 180
 tgctgtcaac tatatcaata gctcttttat tgggccagac tcgaattacc cctattccca 240
 tagtacataa agctgtctgg caatcatacc atacctctgg catcagtaat caatcaagtg 300
 gccggcttat tcttcttctc cgtctgagtc tctagaagcc agtttcaaca tcttatttat 360
 ctttatttgg cagcgtaaga aggtctatgg actcaggaaa tgatgcctca tctgcggcag 420
 cctctgaggc tggaccacaa gtcaaggtaa gtagctctcg gccagggtgc tcatgtacag 480
 ttgcggaaat ggaactggag gggctcgggt ctacctgatg ggctcatgcc aacgctcgct 540

cactagttca tcgctggtga tatatgtcga ctcaagtcca acccttctat gatagggcgg 600
gtctgcgtaa gtagagtgga tacgtttctca cattctggac tgatgctgcg agtagagaag 660
ccctcatgat gtatgttgcc tggttttcgt atccaacca tcaacaatac cacgtattga 720
cattatcgaa gctagaagag ccggaactgc tgggcgagct tttgaccggc acatatgacg 780
gcgtgccaga agaggacggt gatattttta ttactacatc aacggtaggt taaagatatt 840
cttcgatctg gcagattcta ataaatcata agccccgga aggttacgtt ttcgtgatct 900
atattcagcc ctgcgatggt agctctctta ttcataaaaa tgacctcgaa ctcgttgacc 960
gtgtctacga gcttggtgag acggtgaaac acaatctcag tgaaaatgac acaatgagtg 1020
gcacgattat tgggtgtgtcc aggagatgta ctcttgagcc aattatctat cagccacgcg 1080
accctataac aggagactat ctccagtgga gggtcaccga gaaaccctac aagggatacg 1140
aggcatcttc tgcactctgag gaagcaggcc ctttcttgct ctacgatg 1188

<210> 2723
<211> 1513
<212> DNA
<213> Aspergillus nidulans
<400> 2723

ctcggctgcc cattctgatt gggcaaaact gtacacgtaa gtttcaccgg tcacttttaa 60
gcctggatag gagactgaaa gacttacggg gtctgagacc aggcataccc tctcgtattg 120
cctggatatg ggggctcaa gataacttta ttggaaagct gtaaacatta gtcgctgagc 180
atagtattca atccaaactc tttctaacat acaatctgag ggaaatgtcc ctctctctct 240
atgtcccaac ccggaatgcc ttctcgattg ggcgccaccc tatatagctg gtcagctatg 300
ccaagcacat ttgatagaag aacggattcg gagttttaca tggcaccatg accaaagctc 360
gaggactcaa ttaccgtttg agccgtggca acggcggaga aaaagaaaaa caatgctgga 420
accttcacg cgtctatata gtccggcggg aattaccggg actcgctacg ccttgcttgg 480
gagaagaaaa agaagaattg tgcaaccagg cgttagttag aaaggggtat ccaataaggc 540
aacgaaaaga tgtaagctga actgcgaact gaagaatgta cagtagaaag gtcagattat 600
atggccagga cccagggaag ctctgtggta caccgtggag acaatgatag taaatcactg 660
cagtccaagg gcgatcacia aaacattggg gtctttgcca ggaaagaagg ggcaataaaa 720

ggtcaattga ggggaagat cgagcttgag atcaagcctg tcgaaccatg agagcttctc 780
 cacgatatgc tttggagaca gacacggccc aggtggcctt tagtgacttc cgtcagagcc 840
 tcgagctgtc acgtgtcgtg tccgcgttcc ccggatggat cgtcgggtccg ctctcaaagc 900
 aatccactca acatcaacat tcagtattgg aagaccgcaa tagcttcgaa aggtctccag 960
 atgtgtcgcg ctcgttgatt gaccaccctg gatgctcatt catagctgca atggctgagt 1020
 tgtaccatc tcttaccctaa tgcgccatcg tcgcaacggc gttcaaaatc ctctctctcc 1080
 ccgcctagta agtgctcttc tggattgacc agttacaatt cgagtatggc ttgatttttg 1140
 tacggattat gctgatatgt ggtcttgaaa cagcaagtcg accgacttcg aggttcatcg 1200
 caattggcta gctatcacc attcgttacc agtacaggaa tgggtactacg aggtactaaa 1260
 cttttgtcct caataaaatc tgggttgccg aaaataacaa ttttgttttt agaaaacctc 1320
 ggagtggacg cttgactatc ctctctctct cgcggctctt gaatgggcac tttcgcagct 1380
 ggcgcaatat gtggaccgg cgatgctaga tgtccagaac ctcaactacg attcctggca 1440
 gactgtatat tttcagcgag cgacagtcatt tctgagcgag cttgtcctgt tctatgctct 1500
 gaaccgggta gtg 1513

<210> 2724
 <211> 1124
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2724
 gatcagactt ggtcggaact gacgctgca agggcaaggg ttaggccgtt gctgtacctc 60
 atagatagct tcagtaaaga cctcggaact gtcacatttc tgtgctcccg atttcttacc 120
 tcggagtcaa gccaccgaat ttccacttcc cgaccaactt cccacccttt ataataacct 180
 ctacggcacg tcgcctccaa ttctatggta agttccccga attcgctctg cccagcttcc 240
 gccgtccaat tgacctcatc gaaagggctc tgcacgctg gctcgggttct cccctcgat 300
 gcgcccggga acaagcacc ttgtgcacgg aatacgtact caagctccat tgaccgggcc 360
 actgctgcc accgctgtc cgatactcgc cctcactcgc tgctcgcccg cgactcgctg 420
 cacatcagtg acagtggctc ccccaactag acaagccct tccccctc cctctctctc 480
 tccctctttt cctctctctt cctccatccc gctactatt tcagcatctc gaattgatcg 540

ttcgattgca tccgtaacaa accgtgccgc tctagtttca agacattttg ctacaacagc 600
 taccgcccga tcttccacaa tgtcctacac cgtccgcaag atcggccagc cttacaccct 660
 ggagcaccgg gtgttcattg aaaaggatgg ccagcctggt tttcccttcc cagacattcc 720
 tttctaagca catgctgaaa agaccggcct caaatgatc ggtgagatcc cccgcttgaa 780
 caatcccatc cagaagggtt gcccttgaaa cccctccata acggaacttg tcgccgtggc 840
 aatatcgag ccactgattg gaattgtata aatttccagg gggattttct aaccttttag 900
 gcggaaacct ataaggcaag cttcgtttct acaaaacttt atttctttaa aagggttcct 960
 ctgtgactca gggccttttt taagtacgtg caaactctat ttaaagttaa ttttacattt 1020
 taccctatat ctgtcataac atcgaagtgc cccatttatt catccattcc taaccaagtt 1080
 tcacttcccc ctctaatttt ttatactata agtatccaat cctc 1124

<210> 2725
 <211> 884
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2725
 gcctcgtatt ttggagagtt cggggtggta tagcccgta agaatgggtt tatggaattt 60
 gtctgttgcc tcgcgtcgca gaaagcagtt cccggggcaa ctttgcata ctgaggttga 120
 gacggcctag ccatcgtctt atctacttcg gctacaacgc gcaattggac gtcacggtc 180
 tatctgctga cacgaaccga tcagcttggg catcaataga gtgtatatgg cgaatagcag 240
 agtcgagact gcgagcagtt gacggttaga tgtgtattac cgtacgtcga tgaactcacg 300
 ccaaggacaa agacgcgcgt caacagagga ctgaagtaga ctgtaactctg cgttttagttg 360
 ataatcttag agtgacaatc taggcagcag caaatcggt tgataaatct agtgaacagg 420
 ttgtcggcaa tcgtagaaat ccgtttaatg tggtgttgga gagcgaagggt ggagtatgaa 480
 agaaagtga agcttcaggc ttggcatccc aacctcact catccaatgc ctgcgttaac 540
 taaagcactc ctactccaaa ccatcgtttt acacctcctc gcatttcgaa tgctaccttg 600
 ccatcctctg ccagtttgcg taacacttcg tcgataaacg gctccaatgc catcttgca 660
 acctcctcgt cgattccatc tccatgcacc agcaccacta gctctttaac cgtaacgcta 720
 gccttcttac cttgtcccgt gcgtctggac tccttggtga tctgtccag tgtcaaaagg 780

acctgcttct ctcgtctcat tttctgcgct agttcaccag caatcttcgc gggaagggtg 840
gtgatacgtc gccatgggcg gggtagcaac cgcacaatgg tgtg 884

<210> 2726
<211> 2627
<212> DNA
<213> *Aspergillus nidulans*

<400> 2726

gctggtcac ttgtaacgct tgctggcagc gcttcctctc cgtcgacgtt gcaggcaaag 60
tggtctttct ctgcaaagtc accttcttta ccaacagttt cctctcgac tcggctctct 120
ccacacatac caaagtcccc gcctttcgag ctttcgactg gtccccctg gacgagacct 180
tagtcgcagt agggcaatca tccggcgatg cgacgatcct gcgcatgctg gaggcgatg 240
actcgagga atcgttctct ttccctgtgc gacatcagag atactgcaat gcgattgctg 300
tcagcaccca cggactgttg gctgcggggc tggatcgagt gcggaacgac ttttgcttga 360
acgtttggga tgtgaaccag cggttggcga tgaagggggc gaaggggcat gttgagccat 420
tgaggaagct ggcgagttcc gaaccaatca cgagtgtgaa gttctttagg gatcagcctg 480
ataccctggt cacgggagtc aaggggcagt ttgtgagaat ttatgattta cgaggatatgt 540
tttgcttttc cccctgtacg ggttgcgagg ctaaatactg tagagggcc ggggcttccg 600
tcgctgcagt ttccgacgag gtgcgtgcat aatctggcta ttgattggct tgatgagaac 660
tatattgctg ctggattgac gtcccatgat tccactgtct gtgtttggga ccggcgggtc 720
ggtgctcgtc tttctgcggc tgccactccg ggtttggaga cgggccaaat ggagccagcc 780
ctcgagttta agaacgtgat tgcgccccaa tcggctatct ggagtctccg gttttcgagg 840
acgaaacggg gctgcttggg tgccttttcg agcaacggcc atctgaaaac gtacaatatt 900
gaacaaagag tatgtggttg aagaataccg ctgcgcgatt gataggacac tcggccaaaa 960
ctccgttagc aactatccag agcagatcta taccaagtcc gttcgcgatg tcttttagccc 1020
ttatgaccac ccatcgctg gatacgaggt gtctcaacga gtagtttcat ttgacttcct 1080
caacatgagc agctccaatg agcctagcgt tttaacgctg tccgctgatg atcaggtcaa 1140
aattattacc gtcaagccac caccacctcc agtgcgacta tcttcacagg gaacgttgat 1200
ttgtgggctg ttcgatgagc atcgcgattt caaggcgatc tatccgctgg ggactgaagg 1260

ctcaagcatc gcgcaaattg caaagagtct acgggacaac gctctggaga ggcaagagga 1320
 gcaagctgaa acccggtggtt tgcgagagaa ccccgaaaca cctctttcca gtcgagagaa 1380
 ccgggagcgc atgctgtcgg ttggcactct aggtagtctt ctaactgctg aagaagcgtt 1440
 gactctcttg acggtgaata ggctgcggtg caaagaaggg tatttgttca atggaatgcg 1500
 gaacaagcag attctggccg atgacccctc attgcaggat ttctgggatt ggattgagcg 1560
 tgagtactag cttgctgaga tacgaagttc tacactaacg agtcagggtgc acgatcctac 1620
 tctgcgagcg attccatgat catgaaccac ttggatctga attatttggg cgtgttcgat 1680
 gtctggacgg gagatttagg taggttacat tcttcacgtc cgctaaacca gtgcggtgat 1740
 tgggctaact tccgtagggg tcagccttat agccctatgg atgggcccc a gtgctgctca 1800
 taaccggat atcaatgata cgatcgtgga tttggttcag gagaagctga accttccttc 1860
 gagtgagagt ttacactctc gttaccctga gcagaggcgg cttggtctgc ggatatgcgg 1920
 cgcagcccag tcacgtcgtg agctcgagga gttggtcaag acattgtccg ccgaaagtca 1980
 gcatacaaag gcggtcgtc tggccgtctt ccaaggcgag ccaaagcttg cgtatctcgc 2040
 gctgcgaagt catactccta cacaggctca taaactctc gcaatggcca ttgccggtgc 2100
 tgcgaaagaa aagccagatc ctgactggga agagacttgc gccgagattg cgaaggagct 2160
 tactgatcct tacgctcggg caattattgc cttegtcagc aagggcgact ggcgctctgt 2220
 catccaagag actacactcc cactaaaata ccgcgtcgaa gtcgctctgc gctggcttcc 2280
 agatgacgac ctcaacaat acctaaccga aaccacaaaa cgtgccattc aacagggtaa 2340
 catcgagggc atagtcctca ccggcctcgg ccattccgcc atggaactct tccaatcata 2400
 catcaacaaa ttcaatgacg tccaaacacc ggtccttggc atgagccaca cagtaccacg 2460
 cttggtcaac actcccga acaaacaccg gtttcgagac ctggcgccaa acctaccgt 2520
 tggccaaatc aaccttcctg gaaaacctt caagcttcga aacggcgccc ccgcgtttcg 2580
 aacagtccgg gcttttttgg caaaatattc gccccccca cctttgg 2627

<210> 2727
 <211> 1425
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2727

aattaaatac cctttttcaa ataaaaaaaa taaaacattg attagaacgg ataaaacatc 60
aaaccgaaaa gccagcttg gtaaacgagt cgcccacgag aaggacctcc tttggaaggt 120
agcacatagg ggctttaaac aacaaaacct tgtactagta gatgtttgga taaccaatcc 180
ccgcaaaaca ttactctcc tgaatacacg ggattactca tatatttcca cccctcgtgt 240
aacgtaaaaa aacgaacgac cgccgaagaa tccccctgt acagcgcagc cctcacctca 300
aaaatgcttg atgctcaaaa tgccgctgcc gccaggccaa gcgccaagga tgcgcaggcc 360
cgtcggatcc caacatgcca acaaaacaat ggtagtcaag aactcgcag atatgttccc 420
taacttgga cgtgatgtga ccgacgacgt ttttaggatg aaagagggaa ggttagtcgc 480
tctgcagttt cattatctga aagatgcggc gctaactcgg ctgataaata gggtcggact 540
ggcagaagac gcgttgtctc gctcttagtg ggggttgatt cgtagatttc tagcaacata 600
tcttaatatg atgtagttta tactccgtac cccaaccgct cctctagacc aggcgtacgg 660
catttactat tataactagt gacctgggac aggagctgtt tgataactaga agtatttacc 720
gaatcaatga gataatcgtg attttggttc gttatttatt ccactatcta atccagacca 780
ctatgtagca cattgtatga tcagatatat ccctaactct aatgagtaga tatattctca 840
cgtgattgga tattgctcgc ttaccactag cgccatacca cgtgcctcgc cagggtataa 900
attcatcgt ctcccgccgt tcttttagct tttttcttct ttcttttctt catacttacc 960
ttgtttgggt ggctgcgatc aagaaggcgg ccaccacag actggtcctt gcattgcaca 1020
gcgcggcgga acggtctgtt caacggcctt cgggtcattg acaggcgtat tctttggcac 1080
tttcctctct ctgagagact ccttttcac aggtctcggg ccaggcgctc gaggggtggag 1140
aagaggtttc tttcgtcgca taggttaatg gcatttattt gatgtcttaa aacaggtttt 1200
gcgaatatgc atattatgga aatacgaact gttgttattg gatttttgcc acctgtagtc 1260
ctagaggttt tttcgaatgt tagctgctca attgtcttag tgtcgagctg tcaaacatgg 1320
gaccatagcg gtctctgaac cggctctctt acttctggat cacaaaattt gctcaacctg 1380
ccattcgggtc aaccacgaaa tataatagct gcttgagcca tagcg 1425

<210> 2728
<211> 3354
<212> DNA
<213> *Aspergillus nidulans*

<400> 2728

tttagattat ttggagaagc acggctttat tgacggcatt atatcggaag actctgactt 60
gcttgtattc ggcgccaaac gactgttgtc caagcttgac cagcatgggtg aactgattga 120
aatcaaccgt gctgatttca cggcttgctg agaagtcagc tttgtgggtt ggacggacgc 180
cgcttcaga cgaatgtgta tcatgagcgg ttgcgactac ttgcccaaca ttgctcgcgt 240
cgggttgaag acagcatacc gaagcattcg gaagtacaaa agcgtggaga aggcgcttag 300
gatgcttcaa ttcgagggcc cgtaccatgt gccagccgac taccttcaga gcttcatgca 360
ggctgaactg actttcctct atcagagagt attttgccca aagtctggca aattagttcc 420
cttgacatca ccgatgatg gagttaactt ggatgagctt ccttttatcg gtgctgatat 480
ggatcctgag accgctgtcg gagtcgcgaa tggtgaccta gatccaacat cgaaaaaacc 540
cctacagttg gtgataaaac cactgggctc aagcacagta gaacagaaca aacatattgc 600
gtccctcagc cgaagacaaa caattggctc gttctcggat ataaaaccat ctaagccaat 660
aaactccttc ttcaccccga aacgcgttcc acttgccgag ctggatccaa atagcctcac 720
tccatcgcca agtcagcaac gactacttca tcgtcatgtc aacagttcct gggagccctc 780
ccttgctcgg tctcgcccat ccgtcgctag gtctaccacc gttaatgact cgtctagtcg 840
tctttcgagt ccgctcgtga gaagtgtga acggtcttta tttctagcac gcacttcgaa 900
gttgacaact ctgcagccta gcaaacgaca gaggtctgtc tcagaaacag acgaagtgat 960
cgctgctagt acaccagact gccgcagtcg cttcttcgca gccagctcga atgatgaaac 1020
ccctagcggc ggccaaaagc ttaatcgtag caagaaagcg cgcaagtcta ctttagacgt 1080
tttctcggac gatgcgaccg aagatattat gtcacagatg cctgatccga gcgaagccgc 1140
gaatatgacg aatgagaaat tctcagcagc aggtcactcc ggtgaaagca gcgaacgtga 1200
agatgaagta accaaaacaa atgttccaat tactaccagg agcgagaccg aggccacca 1260
acttgatgct aagaagcagg cctacgaggc tgcatttgac agcagaacgc tatccagaaa 1320
gataagcgcc gcatcagagc ctgaggtcgt tccacaggtt acggaccatc atatcaagcg 1380
gcagacctcg acactctcga agtattcctt caagactgat gctagtggaa cccgacctaa 1440
tccacagcac tcggccgtga acggtcctga acggagtgtc tcgagccagt tggttcgcca 1500
aagaacctgg acgcctacac aaccaagcg gctaaccocca ttacagcggg tgggccagaa 1560

cgctttatac cgatcacgat cattgaacaa catgccggcc tcacctacga tttccagatc 1620
 cccaagtcca attgaggaca gaccacgcgt cagctccggt gactgtcctc ctgcaatcgc 1680
 tttacgcacc gacagggtag cgaggatctc atagtcccag acagtgaaga ggaggaagat 1740
 gattgcatg caggcgacga cagtgttagc caatctcgag taacagcttt ggatctcaaa 1800
 cggttctctt tcacggcgag atgatgtaca tattattggt ttatcaaagc acctgatcat 1860
 gcattggtgt cttcattggt gtcttggagt ttggaagagg ctaacagtct ttaggaggtc 1920
 aatatgccga tcggttggtg aacggattgt tgtctggatg gttgttttgc ttcttggcgt 1980
 tgtattgagt acataatttt tattgagatc attacattgg agcaatgaat actgtatcac 2040
 tactctgtat tcaccgtcgc gcttcgacga tcgcaggcat ccgacagact ttccgacttt 2100
 aggcttcagt cactaaatat gggttggaac ttgggaatct gggggcggtc ctggcgctaa 2160
 tccagtttac gttagctcga tctacggctc gatctgctgt gtttactatt aaggggagggc 2220
 ggtgaatttg gttaccgggg aaccggggct cgtaaacaat gggcgttggc ccagcctctc 2280
 gatttagtgc ggaagatcca gttgtatacc gtcagatggc ccagccacc actatcttcg 2340
 ctggtgacgc tcacgttctt gttttgcaa tactcgggtg caggaagtct cgccggtttt 2400
 gggttgcagc tgtggatttg tccagatacg atctctccc ttctccgtct tctccctct 2460
 tgcatacttc tcaattgaac tgcccgttg gaccattggt gtccactga cactctgggt 2520
 aacggtgctt tgttttcatt gaaatctgac tgttgtgtat agcaccggat ctgtcaacca 2580
 cgtttgcgag acaatcccca tacattccct cgatctatta tcgtcattcc tcccatctag 2640
 atctcctaag tcgcattcca cgccgtattt tgctacattc ctttgagcga accgtcgctg 2700
 ggaatcatcc gggtagcagg cactcagtgg ttgttattgg ttgttattca gattcacgag 2760
 tgtgacaacc gtttccttca gttttatagg agcgggcatt gctgctagac aaggtgtgta 2820
 gggtcagcag cactccttct cggggctccg agaagtgaga ctcaaaaaga aagaaggaat 2880
 caacacagca ggaagctggt gcataattca gatgccgaga ttcgcggggc gtttcgccc 2940
 tatgtgtttt gtccctagct atgggtttgc gactggtatt tgctaacagc ttgggttagg 3000
 cttcattacg atggtcggat atcaccacgt gctgatgatt atcattgcta ttattatcat 3060
 cttctctgt gagtcactct acttctagct atccgtttga ctgtagctaa ctcacataac 3120
 cactcagcgc tgctgctcgc aggatgctct tcatcatcgc ctcaaatgcc aacaattttc 3180

ctgatctcta tgtactatga gcgctacgac ccaatatttg acctcgcgca ggctcgaccct 3240
 ggagttgtta ccgctacagc aaacatcggt ggaggtgctc agctggaggt tcgcgtagga 3300
 tattttggca tttgtgtcaa ccagacggtg gatcttacat ctgcaataac aacg 3354

<210> 2729
 <211> 4255
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2729

cgtcttctgg aagagggacg ctgtcttggg aatagacagt gtttttgaag ccatcaatag 60
 cagggctgat gcgcaaggag aacatgtggt ggtggaaagg agccatgacg cctgggcccga 120
 cattggtgcc ccacttgaca gtttcccat ttgtattgtc aaagggcacc gtggagagaa 180
 taccggtggc gcggacttca agttcgatat tcgctacttg atcaaggatg taggcgaaga 240
 tgtactcgta gttggccacc gtacagatca tttggagaac aagctggcgg ttgcggacaa 300
 cgggtggetgc tcccgatctg taattggtgt gtttgtgctg aagcccgta tctgttcat 360
 gcatgcagat tatattcttc agacgaacag gttggccttt agaatcggat cggtaaccgt 420
 cgaagtattt gatgtgtcct aagcagtcac agccaagcga gagctgattg gcattcagac 480
 caaatccac atcaccaacg tcgaaagctt gcttctatg atacggtgct cgagggctctg 540
 tagagcttaa tcagcagata gtcaatagag taacctggta gacacaaagc ctcgggcatg 600
 tattacccc cggagttatc ttatagcccg gatgcaatgt ggccagctgg aacagttcga 660
 actcacctcc atagggcacg gtcatttcag agatggaaag ccgatacaaa acgttgcggt 720
 tgtcgtaggt aagattgtag aggaccaagc catcacggtt gttgaatccc actcggaac 780
 gccacttctg ccagtagacc ttgtttcccg tcaccgaaaa cgaggcgccc tccggttgtt 840
 ggacgatata tggcttgaga tcagtgcgga gaggtcatc caagagatca tgtgcatatt 900
 gaatcgtctt gactggcttc cacggttgcg tctcagctgt ctgggtatcg gagcctccag 960
 gcaagtagtc catgcggacc agctcgctg tatggccatc aaaaacaggg gagaacttgc 1020
 acggaataga gtagtgattg ttctcaggtt ggtccacaga cataatgtac atgaagcact 1080
 ggaacaaccg gcgggtctca tgaatattgt ccgtgccata catccagga tcattgcaaa 1140
 ctgtaactcc ctggggaagt ttcaattttt cgatctcagc caacacagct ggatgctcca 1200

tgcaaagctt ctcaatttct gtgatttcat ccacgtctat gggaatctat ccttgtcagt 1260
 gacgaaaccg caatcaagga agaattgatag atacctgaac cccagccggc aactctttcg 1320
 cgtagacaac ggatgcatcg tcggcggtga gcagagcttt gcagcatgcc cctgtatcaa 1380
 gacgatgaaa gtaagagtaa agcaggcggg ctggcttttt gggaagaggc ctccctagcc 1440
 gttctgcctc gatgtaagga atgacatctt ttttgatagg ttcttgaaga tcaattcggt 1500
 tgatccgaag ctgaactcca gggaacgcag actgcaggat acggtgacct agacgaattt 1560
 cttgagatgt aagaggggtca aatgggtgag ggactggctg cccttgcgct gaagacatgg 1620
 ctgatcgtgt gaactgaagt atatgtggag gtcacagttg aggagctggg gaaggggtat 1680
 gaaggagaag acggtatcaa agatgagatg gagatgcgac tcagctcttc tcaaaggaga 1740
 gagacagtga cttatatagc tgtcatcttt gccatctgtt ttggagataa agaagagatc 1800
 gagatagatc tggatggacc tgctatttag ggaaggtcac ggctagcgcc attgtggggg 1860
 cgggcctaag ttgacgacaa gcacatgaac ttgagccgct catcggagtc gagcattgca 1920
 tcttgagggg acttgcaagc ctctgggtct cactgcacga caatgctttg gttgggggtc 1980
 agtcaactgtt gcgatttata cggaggatcg acagagccta ctctgtagtt agtggagaa 2040
 gtcagtcggc tagcctagtg aagtagacgg cgttgatcc gtctgaaatg ttccatcttg 2100
 cccacttaca cgaagattcc agtgactca actttaagc gtcgtgaaag taatgtaagg 2160
 atacagtctt tatatgggta gaagaagaaa gtgcaagtac tctgtagagg gtaaataatcc 2220
 caagtcgtgg cgaaagtcct gtctggcgta actctttccc aaaacgggtt agtgtaaact 2280
 gtccctctt gttcgattct gcgagccatt cagatacaaa tgatcttttt attttgctgc 2340
 tccttttctg gctatgtgct tcgagaattc tgtcattcga ggccattcc tccaccctag 2400
 tctctttgtt gaccgcttgt tggcgtagcg gcccggtccc gaagtatata tctccccgaa 2460
 aaatgggctg cccggggacg ccgaacatat tccagcagta tgaaagcgag ccacgcacga 2520
 agaaaagatg cagaagacat ggaggcaatt ggagtcgaac cggctgtttg acttgcaaaa 2580
 gacgaaggaa gcgctgcgat gaggctaagc ctaggcaagt gtcctccgtt cactataata 2640
 ctggatcttt gctaaccctc aacagctgcc atacctgcac caggtaggc ttaacctgtg 2700
 aaggttatag ctcaatgtgg gcagttccac ttggaccagg cgctcagatc ttcaagccaa 2760
 cagagcccg ctagacaccat agacctgggc ccagtttatc acctgcttcg ttagtcgggt 2820

caagggcac gtctgcgact atagggcagc cattgccagt aacaggatcat acttcaccta 2880
 tttattcgcc ggtccctgaa aaggatgacc ttgcggattc ggagagttgt agttcgagaa 2940
 atgccaacca actagctgtt caggcggcct cccggtctcc ctccccctcc agattgatca 3000
 atcatctttc ccacctcgac tcccattacc tccaatacca catggaacgg ggctcaaagc 3060
 tgctaactaa cctagagtct gatgagaatc cctccggtc catgttaate cccagggctc 3120
 tctcatcgac tcttctcatg aacgctctat gcgcctatc cgccattcac ttctccaacc 3180
 gtactacca cagctggttt gctgagaatg aaggggcaa gtactacatt gacaccatgc 3240
 gcggcttaag aacaacgctt gcaacttccg agagaagtta tgttccagac gacgccatcc 3300
 tcgcccgttc tcttctttgc aagtatgaga ttgtccgagg gagcgtgaag caatgggctg 3360
 tgcattctaga cgcagtgcag acgttggttt cctcccgagg aggactcaac cagctcgatc 3420
 aggatgcagc cgagtttata cgtggactgt acgatttttc ttctctctct gaacacccgt 3480
 ggatgatgca actgataagc ttcccatagc ttctgtctatg caaacaacct ggctaggctt 3540
 accaaccgaa gaaccttact caagccgtct attcccggt ctgatatcgt caagccccac 3600
 aagctagaca tctacatcgg atacacagag gaaatcatca agacgtgcgc gcggatagca 3660
 gacctccctc gtctggcttc agattcggag gcctttgaac atgaacttgt ttcaatgtat 3720
 gcggactttt cttacccttt gctcgggcta tgaggcaaga aagaagaatg ctgacgcctg 3780
 tcgctcgata gagacagcat cctccacaca tggacctcca ccaagacaac ctacatcgta 3840
 cccaaaggca taaccaggc taccctctcc cgctgcgct tggtagctga gtcctttcgt 3900
 gatgccgct atattctac tcatcagtc ctggaacgca caagcctatc cgaagtctca 3960
 ctcccatctt ccataacttc acacgcagac tggagattcg aacacctcat ctcaatctcc 4020
 aaaacgaccg ccataatgtc cctcctaaaa cgtctcaaaa ctcatcccat cgacaagaac 4080
 tgcgagttct cagcgtcac attcccgtt ttaattgccg gctgcgagag cgcacagtga 4140
 ggaagatagg cagctaatat ggggtatgct gagtggtgtc gaggccaatt ttggaatagg 4200
 gaatgtgaag agggcgaaag aggcgctaga gatcgtttgg tcttcttgta ccctg 4255

<210> 2730
 <211> 783
 <212> DNA
 <213> Aspergillus nidulans

<400> 2730

attgcctgcc tgagggcgca gactggcggtt gggccgcagg tgggtgtcgca tgttttcggg 60
ctaaggaaag ccctggagga tggcacttgg aagcaggatg ctgagagcga ggagggggcg 120
agatggttag ctggagagga ggggaatgcg tggatattga ggagcgtaga tgagattgtc 180
gcggaatca gtgagggccca gggatcgaat tttgcgccg ggaaggccaa gttgtagatt 240
atgagagttg tatatatacc aggggtggggc taggtgggat gcgatgtata cagtgggcat 300
acggccggat atatatatac tgagtttttc tagcactcgt tatagtgaac agtatttgtg 360
cagagcaatg actagataag tacagcatta ttttatttgg ctttcttgtt ctcagataca 420
ctccgggggtt tttttctata gctcccccca ccgagcgaac agctgccgac atttgaagcg 480
aggggcttgt ccacttgagg gtataacgaa tgctcacctg gacagctgtg gccgaatagc 540
ttcgcacaat gatgaaaaac cattaatcgg tgacctaccg gaatcaggcc ctttaaggccc 600
ggtgcatcat gacgggaagc ctccgcgaat ctccaacttc gtgttcgcca atgaacgctc 660
ttgccgcgca ccccgaggc agcccaaata acttctaaga tgccagatct ggacaggcag 720
ataaactccc cgcacttgat gggggaatta agcagttagc ttgtcgggcc gggccgctgt 780
cac 783

<210> 2731

<211> 2040

<212> DNA

<213> *Aspergillus nidulans*

<400> 2731

aggttacggg cacggagttg aggatcgtgg gcaattttac catgaatagc taacagggta 60
ttactctaaa gcgcttgga tatatgtctg atctggaact ctatctaagg tggttgaagc 120
aaagaggcat ggggtgcaaac caatttcatt ctattaataa aagaccttgc cctggagtga 180
ttgggttcat tgagaacaaa taatggaaaa ttgctaattt atatgtaggg tggtagacca 240
tataccgtaa accatacagt tatcgtgttt gtgtagggtc ccaattttaa aatggacata 300
aggcttccat caaggaaaag tctcgtgttc accccacatg cgatgggctt atgagtcgtc 360
atgaaacggg tcgtgaagg gtgacgaatc acctagggca ggtgttttca ggtcaaggga 420
cagatgttca cacaggatta gtatgctgca gatgcattat ataataacct acaatctact 480

ggggttagta gagtttggca tgaggtgagt aataaaaagg agggctctcg atcgctaggc 540
 agagcattta tcctcttgcg acaattacgg cgcttgacaga gaggtctgtg gcgctggtag 600
 cagggcagag gcacataaag atcgatttag acacggaaaa tggcgacatt gataacctata 660
 gtcagcctag ggggccgcat tataataaca gccacgctga accgaacagg gactatgtct 720
 caaccggatg gcactttacc gaatccctcg aagggcacgt tgccgtccca tcatcggtgtg 780
 tgtcttatgc ggctgccgag cttgaaggga agggctgctc atcgacaatg ggcattcttc 840
 tcacagtggg aatctatcgc agagttgaag gtatgttcat cgaaagtaaa agtacaagct 900
 gacatttgcc aggggggtact ggaccaagat acaagggcct ctgcaccgga acagtttcat 960
 gccgttcctt atcacgcagg acaatgtgcg ttatgcgtgg agatcttgat ttcttcggtg 1020
 caggcaatga gagtgcctca acaaccttga catatacact ccactttgc accgtcgagg 1080
 gcaggagatt gaccttgatc ggcgtaagg ctataggcca atctgctgca tttccatac 1140
 ctagattatg ggaagccaca acaaccgtca agcttcatat actggacttc aacaacaata 1200
 gtcttggggc cgggtgctgtg cgtattccgt tactatcatt ctggcgga atgcgaacat 1260
 ttcatacgat agggccaaga cttagttcac tcccgggtact gcttatattc ttgctgtatt 1320
 tcatcatcca gctcagcttg gtcttcttct atccactcat accttttgc ggcattctct 1380
 ctccaaccag agcccacagt caagcgatct cagctaaaca acaaccatca gaaatactcg 1440
 aaatccttac ctctgacagt gccaagatca ggcttgacgt gtatgaccct attcagcccc 1500
 tgggtacgga gtcaagagct ggcaagcagt cacagccacc aatcctcttt ctcccaggca 1560
 ttacaggcct aaacacctcg cactctatct tcgccctgcc atttcaacgc tgcaacatgg 1620
 tcaaatactt ttcacccgc ggacatcgtt gctacgttct taccgccggg tggagccatg 1680
 atgggcaaac cgcaaaagat ggcaccgttt tcgatagccg cctcgacatt gccgccgcaa 1740
 tacaccatat ttccagcacc agtcccacgt gcgacagttc gagcccga ccatatatta 1800
 tagcacactg tcagggtctg gtggcgctcg ccatggccct tctaacaggc atcgtcaagc 1860
 cggagcaact cctcggcata accgcgaatt ccgtgttcat gaaccaagtc ttcggttatt 1920
 ggaactccat caaagcttca tccaccttgc tgatccggaa aatatgagtt tttggacggg 1980
 ccatatttcc cgatttcctt cttagagaga aggaaagatt tcaacaatac attcgggact 2040

<210> 2732

<211> 2580
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2732

```

acggtcccat ataccaccac gtgacggcgc cccagatggc tgggaacacg aggaaggacg 60
aatacgactg aatgaacgca aagtaaaagg ccaccttctc cccgaacagc gaccggatcg 120
catccagatc ctccgccgtc aagagcactg tccggctcca tttgcgcaca acatcggcat 180
tcgccacctg gtcgtgcagc gggaatgccg aggcgacgtg cttccatttc cctgcttcg 240
gcgtgatatg ggccccgcc agtgtcttct tccaggtgac ggctggttag accgatcgga 300
gggcttcggc gggcgtttcg gcgtcggcga tcgtctcgtc gtcgccggca gggagttcgt 360
ggatgatccc gtatagccag tctttgactc gagactgggtg caccattcgg cccaggtgca 420
tgcggggaac gcggatgaag accagcagcg aggcgccgtg gccaggacgg acctgggttt 480
cgagatgggc tccttcgagg tcgcggatga gcgcttcgaa ttctgcgagt gcagtagacg 540
catcttgtcc tgtagcggc cacaccttgg aggggatcga tccggagacg tgtagctacc 600
gagatcctcg aactgatagt gaacgaccca gtgcagccg aaattgtcca gttgggcctg 660
ctcgggcggc cgatagtctg gtgtgagact cattgcatgg atgaacactg atacgactga 720
acaacggaaa gaaaatatac cgttagcctt taatagacgg taaatgagcg actaattcat 780
ccaggcaccc gtcggtttca ttaaccgccc gtttttcagg tgtgcgtgcg tgttggggga 840
gagtagagac gacagacgac ggggaaggag cggctgcgag caggttggag acaagtgggg 900
tgtagtccta ttaatgccct ttcggattca atagcagtca ggagaggtga ttgtcgttgg 960
tttattcttg gaaacctgac atggtgattg ccctgaatag tcgtgctact ctggccaaac 1020
atccccatcg caatccccat ccactccatc ctgctcgctc tcagccggga accggggggc 1080
aagcttgtca gccctacagg gctcagccaa tgcgagcgag gtgccatgcg gtaggtggat 1140
tctcgcttgt atgagagagt acggagtaga gggactggcg cgaagaatgt ggactgcagc 1200
tgatttattt tgttgcctgc ggagctatcg gatggcctgc tcaatagtca agaagacgga 1260
gtactacctg tgttatgact atattgacag gtactggctg ctcttctact tccagcctta 1320
aaaattgtcc cataccgctg taatcattgc cctccagatg aggaacttca agtcagccat 1380
gactgctcta tatggaatgg tacccttcat agacaatagt tgcttccact cacctgagaa 1440

```

tcctgctgcc tacgccttac gtttgagct atacaaggct gttcactgca cctaggtgga 1500
 ccctggatgt ggagatgaac atttttccat ccaatcagag gctatactgt caatcaagaa 1560
 tggggatcct cacaggcatc cattttgata ccctcaattg gcccaaattc aaagccttgg 1620
 gatgaatata agcattcatg cgttcctgca aagattatca ctatcagggg gcttgatcca 1680
 ggcgctatag gagtaggtca gttgctggtc tgcttggata gcgttcattc agcatctata 1740
 aaccaagctt gtcctgttca tactactcca aaccctaatt cacactctgc tcgacctgac 1800
 gccaatgccc ttgctcacca ctctcgccga acatatggac cgccggcttt tccccggcca 1860
 gagcctcgcc tttgggctga gtctgttctt gttcacattc atgttcattc cgacgctggg 1920
 tgtctctctt gctgtcgtcg tgttcttctt cttctactat ccacaactgc gaaaaggggt 1980
 ataacactat tgactgtatg tctatactaa caacaccatt tgcaaggagc cactgactct 2040
 tgtagaccct gagcgtcgaa acgaggacgt aaaagcatga cggttacgat gttgccttga 2100
 ttttgatcta tcgacgtggg cgtcgagcga ctgtactata ttccgcctat cttcattcgt 2160
 tactttccta tatttattat atgtttatct cctatgttat gagcactgcc gagctgttcc 2220
 aggttggttt gaatcttgtc atgatgacaa caaggacgat gtattatagc agatggtcgc 2280
 ctagtggata tctaggggtt aatggactcg taataagcaa caacataaag cagccgagac 2340
 catggtagtt gagttttaca tatgctacca cacttatcct tccaagtcac taagaatata 2400
 tgcaaagagg acaacgctat gaatgaggcg agagcgaata ttctacaaaa aaaagatcct 2460
 ccgtctaccc tctagccaat cttgatacca ctacttctct atctaaccgc ttccaaccgc 2520
 cgctccgcgag acaagaccta ctccaacctc ccaaacccta gtttctccca tttccccagc 2580

<210> 2733
 <211> 2384
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2733

cctgggtacc tattacttta ggtactacca gaattaggaa atgcaggctc aattatgaac 60
 gaccgaatgt actccacgga atcgttctga ccctcgattc cgtgctgac gctacgtacc 120
 cagtagcatc agcaactttg ttctattcag agtatatctc gaaagacttt cgatcattaa 180
 cgcttttagc acagtgcgat gatcacagcg gatttcagca gcaaactct cagacacagc 240

agcaatcgac ttttggcagc ctattgccgt tctgccaata cctcctcttt atccgaatgt 300
 agagcatccg aggactgtat cgaatccact ctccaagata gtggcgggtgc atctcgacgt 360
 gcgacccaca acccacgaac ggcagggagc aaaggcgtgc ccgattgctg gctaggggtca 420
 agccatgctc tgcccatgct ctgcttgtgg gcattttcgc attcgtgccg aagaaggggc 480
 gagaggagat cctacagccc agtagggaat gggtagctct gcaatgcctc gttagccagc 540
 gtctggtaac cttccagtgg agagagttgt gctgtagagt tgcggaccag atccgtggct 600
 accacgatga gtccgtcctg aaatttggat gcctattgtt aaactcagag tgagtctctg 660
 ccaagctggg gtgatgcagt ggaataatca cttaacgatt cgcccatctg gattgtgtgt 720
 ggcaattggg caggacaaga agtgtgaatg cgtcgttgat gtcttgtcga tcgtttttgt 780
 cacctcagcg gggctacagg gctgagacta gggtagctgc tgaaaactgg gctctctgaa 840
 gagctggaag tcatacataat gaggataatt atagaagatg cagacttttg gttggcggac 900
 gctattagat gggccaagtt aatagtatgg agatcaagaa aggatgagtg acgccaatcc 960
 ccggggcccg tttgggactc cagattgttc gtcattctct tttgcttttc ctttggtcct 1020
 ctctgactt ctcttcaagc ttcacctcg tttctttctt cgactttatg attcaatagt 1080
 atctctatta tattttcagc taatattgga aatcaagaac acaccttata cagagcgcct 1140
 aaaacaacta aggtttgccc gaccgcagac gtcatttgca acgcccacgc taaataggca 1200
 gacggattcc gtccttcggc ttgatccaga cgcagccgac cctgtgctta gcctcgatca 1260
 ttacgcgctt tctgcttaat ccaccgcgga tctctttatc gggaattttt ggggttctgc 1320
 tcggtcagct tacttcataa gtaccaagc ccccatagtt gggggctctc tttctcttca 1380
 gaatatccac ctggccgggc aattgcgcac tatgcacgcg accaacggag ttgtcgactc 1440
 gcctaccctt cgccaagatg gcgaccttgg ctataagcca gtcctgactg gaaagcaaga 1500
 aactgtcgg tccctcaata tacaagttgt cgagaggggt tgctgactgt gacagatctc 1560
 aagcggaac tcatcgcccg ccagggtcaa aaagagatct ccgaactaaa ctccccaacc 1620
 gcccttcggc gctttgggcg tcccttcaag tcggatttcg gagaagtcgc gcctatcgat 1680
 tctgagcttc caatccttcg atatataatc gttcaccatg ttcgaaattt cccattctta 1740
 gatcaggcac gggagaaaga attttggcag gacaagctgc aagtgggtgc tgccgtgttt 1800
 ttgcctctct cgacagaacc ggcggagctg acaatctgga cacagtttct cgaatcattt 1860

gcgaacaaga atgtttcgtc ctctgaagac cgactggagg agacgaagcg aagaaagtgg 1920
 gcccgaagt gcgagaaact cgtcgagctg atgatggttt ccggtatccc caccgcatct 1980
 ggctatgagg agcgtatcca gttttcggaa atgaaggtag ttgaccgtgg tgctaagtga 2040
 aaggggcttc ttgtcaatat gccggagggg aatgcgatta atggctggga tatcaatgtg 2100
 gctgctgtgc gggtaacatc cgtannnnng acggttcgac atcatcaaca tgcggtatgt 2160
 ctagtatacc ctggactaat acatcaaact aataatcggc aggaatttat catccgcgta 2220
 agacggaacg gtcagccaga tatctttgta gtcgcaggt tcggcgagtt tgcgggctt 2280
 caaccgcggt tgcactcaa aatacccccc agggcggtgc cggccctccc gcaatgacc 2340
 aaatcgtcaa cagaatcaac actctggggc ggtagcaccg cgca 2384

<210> 2734
 <211> 1146
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2734

aaataacagg ttattttacc aagtatatgc gccttcgcgg aatatacctt actagaacgt 60
 atactggatg aaaaatatgg gctgcctgac tggccagtct tagaccattc tttattccta 120
 gatacattcc acatcgagtc ggtaattgac tctctccaaa tcaagacgag atattctcga 180
 atcgagaaaa gaccttctc ttgcgccctc tgatactctt tcatgatggc ctgcgcgct 240
 ctctccgac gccggcataat ccgacatgga aaatcatttg cgcagaccaa aaaacccttc 300
 actatatccg gtcgttggat gcaagtccgg ctcgatcagt ttccactct catccactcc 360
 gggctcgata gagaaggccc aaatgagttt cgaaatggcc agaaacaggt tccgctcggc 420
 aacatggatg cccgggcaga tgcggcgctc ggtgccgtaa ccatagtggc cgcgcgcagt 480
 gtaatcagaa gcattagcta attcaggcgc aagggccgtc tgacccttgt agtggctctg 540
 atcgaagact gaaggattgc cgaaccgggc ttcgttgtgg tgcattgccc agccactgat 600
 gatgaccgag ctgccttttg gtatgaaatg gccgtcaacc cagtcattct gttcacattc 660
 tcagcattac gatcgacaac gaagctgaag ggtgtgggag aagtggagga ccaaccttca 720
 gcagctgcat gcgggaacgc caacgggaca gcaggtctcc atctcatggc ctcttgact 780
 gtagccgcaa catagggcag cgagccatag tctgaccaga ctggcgcttct gtcttcgct 840

acgacactat ctatctcagc ctgcgccttc ttcagaacct gaggccactt tgtcatggcg 900
tgaatgaacg ccagaatgat cgaactcgac gtgtcagagc caccctccat gaggacaccg 960
ccgaggaaat agagctgatg gcgcgtgagg ccgagcttct cattctggtc aagcaccgta 1020
tccatgaacg agcccggtgct gccaaccttt ttgcgcccgc agtccacaag gtccaggtac 1080
tgcccgtaaa gctggcacat ttcattcccgcg accccctttg cgcgcgagag ccagttgccca 1140
aagact 1146

<210> 2735
<211> 633
<212> DNA
<213> Aspergillus nidulans

<400> 2735

acctgtgatg ctaatgcaaa gcaagcccca agaagtatgc agaatcaatc agtctgtcag 60
aactttatca cagatttagg tacagcgcac cacataacag attcctgaag gcgcatttga 120
gaacagcaag tggcaaggta gctatagtgg atggcagaac tgaccgatac attagggtcag 180
catctatgaa gcccacggtt tcgttaccta atttgtcttc ttttgttcag agaatgtgggt 240
atgatcatga tatatcaggg cgtcactaga tcgaggctgg ccggtttata caagcgcaga 300
aatcttagaa gggagaatcc agcgcgggtg caaagcacta gttcagccct gttacagaat 360
atctggaatt cgaaccttgt gctcagtata aagtgttcac ggctatttat gaatagaacg 420
ttctgccggt accgatcatc ttgcaaaac cacggtatac ttggcgactg gatggctact 480
agttagctac agtcttggaac ggtgaaaatt gccctggcct gcgatattcc cgccggacga 540
acggccaaag gcctatgcgg cgctctggct ctgccaacac agccgtatcg gattattatc 600
gacgctcacc gaacagagtg gtgaccggac gca 633

<210> 2736
<211> 1120
<212> DNA
<213> Aspergillus nidulans

<400> 2736

agcaatgtta gacaattaag agatggaaaa atgccaatgg agtgctcaac ataccatagc 60
cgctcttgct ccaatactga gcaacgtagg tcaagtcgtt gcgcacaata ggccagatat 120

tgttactagc atagctggag tagccgttat cctattgatg tcagccagca actttcatgc 180
 caacaagatc gaatcataca atcaaccagt tgccgaaacc tataagggtg gtagcgcgca 240
 gggccggggc atctcgctga ggacgacccc aggagccggg aaaggcggtc atatcaacat 300
 agaacttggg ctctgcaagc cctccactcg ccagaccacc agatggggtt gagacgggtc 360
 gcaaatatgc ctgagagttg gtatattctt caagaatagt ctgtaggctc agatcgccgt 420
 tgtgaaacag gtcgacaagg actttcacgg tcagagcggc atctcggtgc caggatatgt 480
 agtctgctcc tgtaaatgtt tattccacag gagacaaaa actagatagc cgctgagctc 540
 acagtctggg ctttcagtgc tagggctggc gatgaccaca ccagccttgg cggctcttgc 600
 ataagcgcca tttgcgcca tattggtgag aatgccatcc agagcaaagc tagcctcggt 660
 agataaccag gtatttaagc tggcagtagc ccgcgagac aactgaggag ccgccgagc 720
 agcatggctg agagctagca caggaagtac tttagagagg gtaagcatgg caatgcgaac 780
 aggcgagagt tggacagaaa agatagagtc aatcaggggg aacaaggtta ttctattaca 840
 ctgagtatca tgaattatcg tagaccaact aactgtcgga tctgatttac tttaaaatag 900
 tcgtcggcat tgtatgactg gtgtctgggt actatcggat gtcttagtgg gtgggttagca 960
 tccacggttg cagtgtctcc ttagggttta ggaatctgat tgggccaccc aagatggctt 1020
 catatatgac caccaacttc tgcattatga gatttccga gcgcaccaa ggatagaaaa 1080
 aaatggatgc tctgtgaata ttagcaattt ccccatgggg 1120

<210> 2737
 <211> 1460
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2737
 tgttaagaat ggtggctcta tgttcaatta tttatgtatt taaggttcta tatctatgaa 60
 accctaacgt gaatgctata cgttctactc tatcaggggt catctattcg gccaaactcag 120
 gccaatattt tegtacgacg tctttcttat tgactttccc catggcattc cgctcaatac 180
 cgtcgacgat cttcagcacg gtggggatth tatacggcgc catctcctgc ttcaggcgtg 240
 tgcgcagggg ttgcaattct agtggttccg tctagtttat cccatcagta tcttgctttc 300
 ctttcttcct tttttctagg agcggcttct gtgaaatcag ggaaagggtg attaacttac 360

accaggcctc tgctttacaa ctgcagcaac acgctgaccc cattcctcat cggcaatccc 420
 aacaatagct acttcgcgga tctcatccag cgctcagcag cttacgctct acctccagcg 480
 cagagatctt gtaccaccg gacttgatga tatcaactga ggcgcggccc tggatgtagt 540
 atgcgcctcg ttcattccgt cgcgcaacgt cgccggtctt gaaccacccg tccgcagtga 600
 actccttggc cgtagcctcg ggccgtcgcc agtactcgga gaagacgttg tcgcctttca 660
 cttcgatcat gccatcgacg tctgcggcct caattacggc tcctgtttcc ttgtctgtga 720
 ggcggacctg gacgccggga aggggccagc cgacactgcc gtcaatgcgc tgcgctacat 780
 cgagcccgca gctgagaccc atgccaatTT ctgtcatgcc gtagcgctcc aggagggttt 840
 ggttcgtgat ggtggcgaat ttggtcttga tgggggtcgg gagggcgga gagccagaga 900
 caaggaggcg gagtgtctgt gcgccctcgc gggcggtgtt ttcctgctct gtaccacgga 960
 tatgtgcttc gaaatagtcg acgagacggg agtagatggt aggaacggcg aagaacatgg 1020
 ttgaagagcc cttgtttgtc cagcgagtcc agatagttgc ggggtcgaat ttcgggtaca 1080
 tttcaacggt ggcgcggcg aggagggtgg ctgtcaggcc gttgatgatg ccgtggatgt 1140
 ggtgaagggg gaggacatgg atgaggtggt cgggtgggctg gtactgccat gcctggatga 1200
 ggcattgcgc ttggaaggtg atggttttat gagtgggtat tgcgcccttg ggtttgccag 1260
 ttgtgccgct tgtgtagatc atgagcgcac ggcgctctgg gtagtaaaact gggaagaatt 1320
 cgggcagttg cggagacaac gggctttcgc tgaagggcgt tagggtcatg taaaggcgtg 1380
 ggggtgcggc ggtgccctca cggagagggg aaataaattt ctcgaacgcc ggggtggatga 1440
 tgataagcga gggaccgggg 1460

<210> 2738
 <211> 571
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2738

aagagttagg aagtgcggcg aagacgggtg aagagtgaca tagggcgtgc ggcccgttgg 60
 atgtagggct cgagggacaa cttacctcag gctcgttctc atgcgatcgt ccaggtcgcc 120
 acccagcatc tgccgcacca gtggtgtgat gaagctggga agtgcagagt caacgtagac 180
 tcggacgtac tggtcgtttg tcgcggttgg ccgcgcgact tcttcctcgt aacggaccgt 240

<400> 2740

agcggcattc agagcctagc catattagca caatgaagga ccgagtcact agtgatgcac 60
ttactttcacg gcacctgcgt aggagatcca cgtagttctg agcctgctga tcgtctataa 120
tttatgagta cccatcacca cccaaagcac gcgcaactta ctctgaggat actcccaatc 180
aatatcgatc cctgagcttc cattagcagc cattcattat cgaactcaga atcgaactca 240
gaggacgcgc accatcaaaa ccaaggtcag tgatgagctt tgcgcagtc tgcgcaaagc 300
gggctctgtt ctacggggta ccagctccgt tggtaaagtt gggagaatag gtccatcctc 360
caatcgaaag gagaaccttg agctgtctgt gctgccgctt aagcaagccc agctgcttga 420
cgcagccgta gacgttgttt ccggtatcat tccaagaatc agtggggtag tgcttctcga 480
tatcagacca ggtgtcagaa aggtagctgt gtcggcatta gcttcggctt gggctggctt 540
ccacatagtc catggttcgg cttacacttc gccagtctct ggcctgacat tggcgaatgc 600
gtaaagaata tgggtcaatt tctccgcggg gagatcttgg gggttgtagt tgcggccgta 660
gatggcctgt cgatcgttag tgaaagatat atatattggt aggagacagg aagtacgtac 720
ccaattaaca aaataaccaa cagttttgta tccagacatc gtggttgagg ttaagtgcct 780
cgagaactcg ggaatgctgc gctgtatgcc aaatagagag gtgttacttc caaagtaatg 840
aaagtagaga gtgacaagca aaatgggggt aaagagaaga tagagagctc gggaaaagac 900
catatggagt cagaaagcta atacagaata gacacgaacc aatttgaaag tattctggag 960
cctgcttcgt acctgcccta aacaagaata gctgcgagct caacaacaac tgtacctgag 1020
acgctgtggg gccttattct acaggtatca aggtggcgta agtggcttgt cagtggggac 1080
accaggggag gtgcaaatag ggctggctgt ggactgtggc tgtgcgtggc tgttgaagaa 1140
gttgcttact cagcgtctgt gacgctagat ctgtatggag cagagagata acagtaaact 1200
caa 1203

<210> 2741

<211> 897

<212> DNA

<213> *Aspergillus nidulans*

<400> 2741

catcgacgcg accgacctgg ttctgtcttac tggagacgaa gagatcaagg ctgcactgga 60

ccgcatgtgg atggacatga cagagcggaa attgtacgtc acagggggta ttggagccat 120
 gcgtcagtgg gaaggctttg gtgcaaata cgttctagct gataccgacg agtcagggat 180
 atgttatgcc gaaacttgtg cctgctttgc gttgattatc tgggtgtcaaa ggatgcttca 240
 gcttgacctg gatgccaat acgccgatgt gatggaagtc ggactgtata acggctttct 300
 tggagccgtg ggattggatg gggggctcgtt ctattacaa aacccctac gaacatatac 360
 tggccacca aaggaaagaa gtgagtgggt cgagggtgct tgctgtccac cgaatgtcgc 420
 gaaattattg gggccaatgg aatctcttat ttattcattc aaggatgacg tggctgccat 480
 tcattcttat attgagagcg acttcacagt cccggagacc ggtgtggtgg tttctcagaa 540
 aacaaatatg ccttggtcag gcgacgtcga gataagcgtc aagggaacga cagccctggc 600
 attgcaatt ccaacctggg cagaaggata ctcgagctcg gttcaggag aggtcaaaaa 660
 tggctatctt tacattcctc actctcagga tttggaagtg aagctctcct tcacctcaa 720
 agcagcaaag ctctatcca acccagcaac agaaaaggat cagatctgta tcacacgtgg 780
 accattggta tactgcattg aagattgtga caacgaagtc gacattgacc atgttggttt 840
 ggtagaccgc cctgtgactg accgtgaacc aatcgatata gcgaacggga atggtgt 897

<210> 2742
 <211> 1459
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2742

acgctgagat atgaattcgg gaatggaatc tgtcatccat tagtgggtta tttccagtgc 60
 cgtgcaaggc acgtaccagg aacatcagtc tctccaacag cactcttgac gaatcgtaag 120
 acccatcttt cctcccgtt agcaaccagc tccaacaga gaatacgatc ctccgccagg 180
 tacatattgg cagtgaacac atctgcatcc ttaccatgca gcgtctctcc cttgaaatac 240
 tggttcagag gaccgttacc ttcggcgtca ttttgcaatg cgaagaatcg atatgcacta 300
 agcgaccccg gcaacacagt gatatacca aacacagact ccaatggctt gtcgaggatg 360
 tttgacatct tgtattcaaa gttctgactc gcgacgagcg gattcagaag acctagcata 420
 ttcttgctt tactggcctt gatttcaccg gctgcaccag caacattgga atcctgatcg 480
 aacgctttcc atagatggta cagtgcggtg ggctccggcc gggtagccgac gtcaaggagg 540

atgcaaattgt taggttgcaa agcgcgccca aaagcggtga agaaccaacg atgcgagttt 600
 agctttttct gattgtgctc cttcagacag aagataacct ggcaaggcac gatacctttc 660
 tcagccccct tgaacttgag gtcggagtcg agcgacactt gtgtggtata ctcataaacg 720
 tgggcattga cctgtttctg gttgacgacg ttctttgcaa tgccctcttg gtacacaccc 780
 agcgagcca gagcattcaa cgtccgggga tgcaccttct ttcgcccgtc cgaaatgata 840
 caaaccacaa tcttcttcca tccatctttg ccccatgtac gagacttgga tcgagaacaa 900
 aaatggctga tattctgcat gacgccgtgc atggctctcg taaagtgggt ttcgtcctcg 960
 ttatacatgg tgatacatat aaataactcg gtctcgcgca tcgtccttcc aatctgctgg 1020
 cgcagtttat accccctttg cgtaaaatca tctggatcgc aggtcacagc agtgtatctc 1080
 atgtgcgtaa actctcggtc gtctcggcgt ggcagaaagc tatgcaaat cgtgggtatc 1140
 ttacactcca aaatcaactc accgttgacc agctgaactt ctttctttgc catctgcgcg 1200
 ttgcgagcgc ctgcggcgtc ctgcttctcg ggggcagggc cgtagtgcag attgggatcg 1260
 accattgatt tggtttcgtt actttcttct tcgtactcat ccaaataaac cttttccaag 1320
 tccgtttcgt ccgcgataaa cgtcgattcg ctcgtaaagc attgcacgct tccctgggggt 1380
 ccgtggcgag aacttattgt tcttcacccg ccgcgaatg ggtctttttc gccgtcgcca 1440
 tatcgatttc gtgtcttga 1459

<210> 2743
 <211> 845
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2743

aaatcaggaa cgcatttctc gtagcgtcag ctgccccgt acgagaaaga gcaccggac 60
 tcaaagtccc agccctcgat caacacgtcg ccgtacaaca cgtcgtctta cgacatttca 120
 gcaagacact tcaaggttgt ggcagaagct ggggtgggct ttgacaagta cctctacgaa 180
 atcaaacgca agactccggg agagcaggcc ctcttgcatg gttatcgcat tgactcggtc 240
 acccataagt cgctcaaga gcctggcagc cagtttactg caggccaggg gggataacct 300
 ccaagcaacc aggggtctctt tcccggtcag tcgagtccat ccctacaggg gcattatgat 360
 ggctccaag ccataatcc tggatccgt cagtctcaag ctcaattttc tcagtatggc 420

tatacagcgg acgggettacg cagccagcct ttcgtaccgc acggccatga tectactttc 480
aatcgtttctc cgcaaacggg atacggccag gagtttggaa tggggatggg aatgaggaat 540
gaatataatc ttcagccacc tccagtgact tcaagcaagc attcttttaa aggttctccc 600
aggggcactc caagtggatt ttccggcacc gctgggcatg gagatgatga ttctgattct 660
gatgattgac gtgatgcgca gcatttgta ctgtttgtcg atagctgttt ttcgtcgtaa 720
tcaccttagt gtcgttttagc tattattgct taaattctta cttagtaa at ccaatagcac 780
aatccgtcaa tagctgcatg tcgaaaacgc cactttgcac tcaactgagcc agctgcgcgc 840
gagaa 845

<210> 2744
<211> 3526
<212> DNA
<213> Aspergillus nidulans
<223> unsure at all n locations
<400> 2744

aagcggatca gctccacccg tattactgtt ttgcggttgc cgctgcagta ttttgacccg 60
cttgacgagt gttccaaccg agataggctc aatcagagtg caaagcgaga ttgccagac 120
tactacgaga tacgtctcag acgacccttg cgaatccttt ccaaaaatac cattggactc 180
tgccagagaa gcaatcaggt agccgatttc gccacgcgct accatggcta gagacaggat 240
cgttgctggg tagagggact tgggcttggg tgggagtgat gacacgaacg gtgtacgctg 300
gtcgggttct cgctgtggtg gacgatcaga atcagtgttt gtggcgtatt ctcttctttt 360
ttggttgttt gagccaacgc gcgcacttcg attatcgctg ggttcctgtg gagccccgtc 420
cgtattctga accggctccc tgtgctgtgc ttgttgagca tggggggatt tctcgttttg 480
actcttttagc ggccggcgga gacaggatgt cacataagac aaggaagcct tgagtatacg 540
ggcgaagggtg gtaagaccgg acacgggaga tctcgtacc agccacaacc ctgtacacat 600
tttgccgaac gtcatacaaaa gggcgtagac gaagccgcgc catacaacgc taccctggaa 660
catctcggtg attggtatgc aaagccaatt gaagcctagt ttgttagatg attcagtaaa 720
ctttcggtag aacttacgaa aaacatgggg gtcagaatcc ggtaaacagg gccttggtag 780
tagtgctcgt aaatatgcat tcctgttatt tgctctctct cttggccagg ttcgggtgat 840

cgaggagagt gagttacgct tgagtcgcgt gaggcaggtt gtggcgaagc ctcatggcgg 900
 acagaactgc tttcggcgat tgagaccggc atcgctcgca gcaggccgtc aaaccacgag 960
 cttataacac cagcgaggta cgcagctaac agactcgacg tgccggcgta cgtagcacca 1020
 gcaaccaagc ccacgagcaa gccagtatac ctaaggaacg cgaattgggg cgtagacgta 1080
 aatcctggca gtctgtccct agatgggagc actctcatca gaaacggccg gaggacgaac 1140
 cgacatgcca gaacaacgcc aactccgagg ccgagtgata cgaacagcgg ggggactaca 1200
 gtcagtgcac tgaacgaatt gccactccca ccagattgg atattatctg aaccatcaca 1260
 aggccaacga cgtcatccag catcgccgca ctagttgtga ccgtcccag ggggtggtg 1320
 ataagcccag ttgttgagag aatcgtgaac gtagtgccca agctcgtcgc gctaagagcc 1380
 gcaccagcag caaaagcctg cagcggggtc gcgagacca gttccatgag aacaaatgac 1440
 agtgccatgg ggattccgat gccagtaaag gctactgcaa cagagaggta catgtttgct 1500
 ctgagggagg agagcgaggt ggataagccg cctcgtaca cgagcataat caggcctagg 1560
 taccacagct gctggatgac ggtctcaaca ctgcatcga gccattgagc tccaggggta 1620
 cccagagaa tcccaacgaa gagctggccg atcaagccgc agtaaagcag cttgtcgagg 1680
 caagtattga ctatattcag caccagcagc aggcgggtt gggtgaggat ggtggaaatc 1740
 gatggctcat gataggcaaa tgctgagtct gccatatctc atctgtcaag cagttaaatt 1800
 ggagttacag ctctggtgag gggctattta tgcggtaata gcagtgttcg gtgtttgctg 1860
 ataggcgaga caacaacaga ctccatcaga gatgagttgg cgaattgagt tctcagaaag 1920
 cacaatcaag ctgtacacag agtagagcag agtaacaaat cctggagacg aaggcgaca 1980
 aagaaagaaa gcctaggaat tgagacattg agagaaagaa gaaagctggg cgcttggcag 2040
 gcagatcatg tgactatttc cgccagtcga ttttaaccga tatagcaatg ccaagacatc 2100
 gatatcatgt atgtaaatga tggctcacta tccacgtcta cgtcctaaat acagtcttat 2160
 agtccaaaac acaacatctc ctaaccata gagtgtaacg ggcagctcat ccatccata 2220
 gtctggcact ggcattccat tatatccaga ccctgggcct gcgcatactc cagcgtactt 2280
 ccccaactac ccgcgggata ccctggagtt gggaccagga tgatagcgtt agaggatggg 2340
 ccaagcggtt gcatgacctg tggaagggat gtctctgcgc acgttagcgt caggctcgac 2400
 gcggaagagg aggggacagt accagtcgtc agataaactg acccctgaaa cccccaccgt 2460

tcacacaact gcattgtatt aagaccaagg ccaaacgctt gcccggttc agggccagtc 2520
 ccaattcccg ctccggttcc taatattcca ccggttccaa ccgtatcgga agcgacaagg 2580
 tcggtgggac tagacgtgcc gcttgcggtt gttgtcatcg aaccgacgcc ccccgatgca 2640
 tcctcgtagc gggccgtgga gtgaaacggc atctgggtgg ttgtgttttag gttaagatta 2700
 cacgaagcct gccgtgaag ctctgtggga gtggaggagg aacatagcgg cagtgatagc 2760
 gacgaggaag ctgacgaggt agacgagggc gatggcttga cttcatacgg gatacaaggg 2820
 gtagagtgcc agccgtgcag ggttgcgga gcacgaagct cgctggcaat gactcgctct 2880
 tggagcttag cgatgcggtc gcggtatctt cgccctttct cgaattagtt tggttttcaa 2940
 gtcttcgggt cctccctca agagtagggc tgggataagg caaggacata cgggtggttc 3000
 gctgcgacag acggttctgc aacctccgcc gctccgttgg atcctgtttc gacaattggg 3060
 cttcttctgt ttggtgcttt gccggcatta tgactatata caaatgtga ggggggacca 3120
 cgacgctgag tacgtgggta ggcagatagc agaccaccga gagcgaggta cttatatccc 3180
 gtacctaccg tacttctct caacagaggc aatgactgct aagctccggt gtgtgacaag 3240
 aggttcccta cttctcgtct acgaattcca attcgacaga caaactccgg agcctgacgc 3300
 tgtacgtctc cgctcatgaa ccatgtgtat tgcgaatgag tgattgggac tttgggtaag 3360
 ctgtacgacg ccggagttct gaccatgcta tgttttagagc cgtgcattat cgattaggca 3420
 atacacccga agataagcca ttgaggtcat aaagggtcgt tgctgacagc gaagcgggag 3480
 aagnttaca tgctgggagg gaagagaatc gctactcttg tgggcc 3526

<210> 2745
 <211> 958
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2745

gcttacgact gttcgttttg cctcgaaaga cagtggatga agaatacagac tcagaaactg 60
 ccacatctga cccctatag acgaaagctt gagcggacac tcgacgggta gccttacgag 120
 acattgtact tgcccttag gctctggatt catgcaacca acaagatcta cctgcgggtgc 180
 cctcacagta tcatcatctt aactgtggaa cgcccttata cgatgtctgt ttcgggcac 240
 gcatgggtga cgttgaccct taagacaccc acttgctctg aagaagattc tttcaagctg 300

gtcgtcaact tatatatgga tgcgacggca gccattgaa catcggcata tgtaacgagc 360
 taataccaag gcgatgcttg atcgccgaaa gcgagtgtta acagggatgg cttacgcgcg 420
 attgggaaca gcaatgcacg gctatacatt atctttggag aataggtcta aactggaaag 480
 gagtgtgaga gactacataa atgtttctcg cctactaccg cagcatacat ctcttgctcc 540
 ctctgttaga agctacacgt acaaccgact cccattatt ccattatttc atattactgc 600
 atagacatag cattgtcggc caggtcatcg tctcccatcg ctgtcttgcc ggtgccacaa 660
 ttatcaatag cctgatcac gatgaaacca ttctcgcat atgctcctat agcgctcgtc 720
 atcctctac gaactacgta tctgtctgtt tctcgagtga aattacgcgg ggcccaaaca 780
 tggggaaggc cgtggcagat atggctaatt tcgccgaacg gccaaactcag caggtatgct 840
 gaatcctgtg agaggaccga ctcttaatcc agccccagt ttctctaggc gagagggctg 900
 gctgtggcat gtttggacgg agggcaagtt agaccaccgg attggcttgg gtcgggag 958

<210> 2746
 <211> 2925
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2746

tacgcacacc agccatatct aatcgctct agcgctccaa actacgtaac ttcctcatgc 60
 actcattcca cctaatectc tggctcctta caccgcgaa aaccgccatg atcaaagaca 120
 cccagtgtgg attcaagctc ttttcgcgag cgtctctgcc cgccatcgtc ccctacatgc 180
 actccgaagg ctggatcttc gatgtcgaga tgctcatgct cgcgaggttt gcgcgtatcc 240
 ccgtggccga ggtccctgtt gactggcgcg aggttggcgg aagcaagctt aatgttatta 300
 gggatagtgt gggcatggcg tggagtttgg ctgttttacg cgcggttgg ttgttggggg 360
 tatatagacg gacatagtgt gctcttagtg gttagttagc tataagggca atttatcatt 420
 ttccttggtg ttcgcttttt cctttggatg attctttgag gtatttggat ggctttaagt 480
 agacgaattt aaaaagagag aaaatcgggt agatgtccaa gtggtaacca ttcaccgcat 540
 caaagtaatt accattatta ttaagtatct aatctgtata aatccatcag taccctaaaa 600
 gatgcaatat acctttacac ctttcgcacc aatatagatg ataaatagac aatcaaacgc 660
 caggataaat aaatccatct actcatacag gacagaagtt agcagtaacc agcaatttca 720

aatccaccta gctcagggtt tatcgacgtt cagtgtcagc actggcgcag tcacgcacaa 780
 gaacagctct tcccagcgtt tggctccatc acaggccgag gctttgactc cactgccttc 840
 tcaaccgggt tttgaggctc gttcacgaac tcagtctcag cctcgggggc aggttcaggt 900
 tctggagcag ggcaagtttc gatctcctcc tcaacgggct cttctggtcc ctcaatcaca 960
 gtattgtctt cgggtctcgg aataggagta tcattttcac tctccctgt ttcagcaggg 1020
 ggcaagggaa caggcgata gaggtccaca ctcgggggca ccgaagttgg aggcggcggc 1080
 agaggagcgc acggcgtcgg aatctctcca ggttcctcaa ttacctgaga agtaggaact 1140
 ggtgttgtct cgggttcgtg gtagtcctct tgataacttt cctgatacgt attctcgtaa 1200
 taatcgccca gatttagcga cgggccatca ggtatagcga tattgatatc tgagccggct 1260
 tctgtatagc cgatcgcttc tctgaattt gaactggggt cgggtgtctc ggtatatgtg 1320
 tctgtaaaaa agtcgtgac attgtagact ggtccgtcgg ggatgcta at agcgggtgtt 1380
 gtgccagtgt ttgtggatgt gtcgagattt gagctcgggt tgaattgtct gcggccttaga 1440
 gcggggtcgt tgactggcag ggagaggacg gtacttgtgg tgaggaggag gggcaagagg 1500
 aattgcatgt tgaaggtgcg tttggaggga atatatggtt gctgttgatg tgagataaga 1560
 cagtaggaat gagtgatctt ggtgaatatt ggatatatcg atggagaaac aaatgaaatg 1620
 atgagagtga gtggccaaga ttgaaccagt tctatctgaa ggaatgtaga gagaatattt 1680
 agaaggtata tatggatgat tgaacgaaag actgagtgct taggaagtgc gagcaaagag 1740
 gcctcaaattg acccttatat agccccgtct ccattgccta atctctta at gtatacaagg 1800
 gttttgtacc gttccaaggg ctctctagac agtaagccct ccaggggctt tcccgtagtt 1860
 tatttccata ggaacgaaca caggaaaaat tcatcaaggg cgaatggccg ctgctgctct 1920
 gtatacatgt gctaggtctg gcgacggagc tgagacagac gcaaggagtg aaggggggtg 1980
 tgactggctc gtgatataatt caggactat catgatgaga gatgaaggaa gggatgaggt 2040
 agcccaaacc acagaaatct caatgcatca aatccgttta ttctgtgtgt acatacatca 2100
 tcccaatcat tatggtgcac tcagtcaaga caagagtgtg gggatatagat aggcaaacia 2160
 gatagagaac agagtgattc caagagcgcc atataataaa acatacaatt tcttgtccgt 2220
 cacatggact gtccaaatgc agtgccataa tttgttgtat tcttgatctt gatctctggg 2280
 acctcctcgc cctgacctg accagaggga ctgtcgaggt ccgcctcgtc ctcatcctcc 2340

tactccctgt gccctagaat cagcttcgcc tgggcaagga gcttcatgtc accttcttgc 2400
 aaaaagttat cgtcgtgact cttctcattg accacgcata agggcccttg gacggccgga 2460
 tcatctggta aatccaccac cccatcaaaa tatgagtcag cgcgttctgt aggctgggtgc 2520
 aaccgggtag cgggtggatc aaggggatct tcggcgaggc ccatctcccc aggtgacccc 2580
 tgcgctgtat ccaagtcgcg atcgatgaca accatcggag tgtgaccage gtcccgcacg 2640
 aggttgggtct cgggcggggc tagatccgag agcttgagct ttacgctgct gcggcgggtcc 2700
 atggacggcc tttctctttc ctgtaaagtg gaggtgggcg atggctcgcg ggatgagggg 2760
 gatggtggcg tcataaccgc ggctacgacg tctggaggca gcgctgttga tttgaggggtg 2820
 atgccgtcga gcttgctatc gagcttctcg ataggtacgg ggatgttcgc tagtggttcg 2880
 gttgggtgag atttcggcga gagtgcggcg tctagggagg gttga 2925

<210> 2747
 <211> 2270
 <212> DNA
 <213> Aspergillus nidulans

<400> 2747

gacgtagacg cactatttat ctcatggaac gtcctctcgc caatagtgc cttctattca 60
 gactgatttg cagatagaca aatcatccgg tgaactcaaa ggcaatgagg acgcattgggt 120
 acctggcttc ctgctggccc gccagcggcg tccgcgccga tcggtatatt ttcattcttt 180
 atgctcaaaa gcccgacttg agtacttcag aagaggtaaa gcggaagttg aggggtgaaa 240
 gtaccctgca gagaatgagg tttgatcttg ataggctggt taaggagtta ggattggggg 300
 aggttgtgga tgtgaactat tttgtctcga attagcctcc tgttctttta ggcaggaagg 360
 tataatatatg tggcctgttt aaattctttg cctattgttc gcaatacaca gtatcctcta 420
 atactctgtt cgtgtaatgt ctattggcgt agaggccggt gccgatcccg tacgggagaa 480
 tggttattta gaaacctagc aacgagagga tgagtcggct cgagagcgag caaaggccaa 540
 gaaggcggga gtgtcaggct atcagtctat ggtgactgag tacttcaaac aagtatacca 600
 aagctttctg ttcttctgac ccatcaagtt atgcatttag tcgaggcgct gaggctgccc 660
 ttcattcaag ctactctgta atcagctgat tgttattatt ccccttaacc aactttgttt 720
 accacaaaca ctattctctg ataaaaccag tacagcggcg ccagatattt atgcgctaga 780

gaaccatgag cttgcatact tgtacatcag ctcatatcgta cgtatcctcc ggctcaaata 840
 tcggcggcac cagcgccttg ggcgccatc cgacccttgc gtcgaatgtc ttctcaaaca 900
 cccaccgtcc ggagcccacg ggcttgctgt cttgggtccc gccaccagga agtatcacca 960
 tcgctgttga gttaggcggc acaacaagct ccagcttgaa ctggtcacca tttttaatct 1020
 cccactggca ctctaaccga ccatatgacg tctcataggc tgcttcggca gatgtgattg 1080
 tgccacctgg taaaggttgg acaaggatct gccgccatcc aggtccaac ggactcacgc 1140
 cagcaacagt tttatgcagc cagttgatga tcgatcctag agcgtaatgg ttgaaactgg 1200
 tcatttcgcc ggggttgatg ctgccatcgg cgagcatgct gtcccagcgc tcccagatgg 1260
 tggtagcgcc catgcggatc ggggtacatcc atgaggggca gttggattct tgtaacatgc 1320
 gataggcgag ctgggtggtg cccgctttgg ttaatgcgtg tgttatgaca ggtgtgccgg 1380
 caaagccggt agagacttgg aatttggtta tccggacgag tcgggctaga cggtgcccg 1440
 ctgctgcggc ttgttcaggc tcatcatgga ggtcaaagac tagggcaaga ctgagtgtg 1500
 tctgggtatc tccaatgaga aggcctgtgg gagagatgta cttggtctga aagcgcgact 1560
 tgagggcacg atagtcggtg ctgtaacggg aggcacggc ggattctcca ataatagcac 1620
 tgatgcgggc aaggagtcct gttatataca ctaagtaggc atcggcgacc agggttccgt 1680
 ccgtgcgaga gttgccaggc tgggtctggag gggcagtagg atcaagccag tccccagct 1740
 ggaaaagcgt gtcatcccag agacggtccg gaccgcgctg cacgccacga tcgaggtagc 1800
 cggccatgct agggactgc cggcggagga tctcaatatc tccatagtac tgatacaggg 1860
 tccagggtaa gatgatcgtg atatcatccc agacagcctg tgggaatgtg ggccagaaaag 1920
 actcgtctat cacatttggc acgaccaatg gtggaactgc cttaggatgt gccagctgtt 1980
 cagccgagag atcctgcaac cagtcactta gcatccctgc tgtccggtag agaaagctcg 2040
 ctgaaggagc aaagacttga aggtcaccag tccaacccaa gcgctcgtca cgctgtgggc 2100
 agtcggttgg gaccgagagg aaattccgc gcatgctcca ccatgcattt tgatgcagtt 2160
 tattgaccat tggatgtgag cagctaaacc aaccagttcg atcaagaacg gtatgcatga 2220
 cttcggcggc caggctttgt agagtagagg ggtgtggcgt ataagggctc 2270

<210> 2748
 <211> 1202
 <212> DNA

<213> Aspergillus nidulans

<400> 2748

atagttaggg gccttgccct tcggtttcgt gtagattcgt cggagggtga gcttctccca 60
catcatgtcc aatagctcgt cgatattcca gccgtgctct gaactgatag ggacggcggt 120
gggaatactg tacagcaggt cgagttcctc gatagtgcg gcacgcattt tgttaagagc 180
gtagacaacg ggaatatatg cgcgactttt ggcctccagc acgtcgatga ggtcatcaat 240
tgtcgcgtcg caccgaatcg agatatccgc agaggaaatc ttgtattcgc tcatgacggc 300
tttgatttcc tgttaagttc gaaaacggaa gtgttaataa ccgtcacaac aattgaaacc 360
ggtctcttaa cgacttacat cgttatcaat atgagtgaga ggcacagtgc tcgtaatcga 420
tataaccacc ttgtccttct tcttgaacat aatggtgggg ggctgcttgt tgattctgat 480
tccgaatccc tccaattcat tttcaatcac cttcttgctg accagaggct tattaacgtc 540
gagaacaatg aaaatgagat ggcattgtctt ggcgacacga ataacctgcc gccacgacc 600
tttaccatct ttggcacctt gaatgatacc gggaagatca agaatttgaa tcttcgcgcc 660
gttgtatagt acttgctccg gaacgggtgg caacgtcgta aactcgtacg ccgccgctgt 720
tgcaaaaatg cgtcagtgtc cgtcacacgg ctctgtctt ctgtaagcat accttcggaa 780
tgttggtccg ttaacctgct catcaatgta ctctttccga cggacgggaa accgatgaaa 840
ccactattcc atagttaatg acaatttcag agcgacgtcg aacgacggaa gaaacataca 900
cactagctac accggtacga gcaacatcga agccggcttc atacaacgtt agcgcaacta 960
ggttgggtat cagagaggtt tgttcttacc gccgtgccg ccaccacctc ctcccacgg 1020
tgtcaaaagt tcacgttca gtttggcgag cttggccttc aactgtcctg tagtcgttcc 1080
atcagtgatg gcgtctcgta aagaagtccg ctagaatcct cccaagtga tactaagtgt 1140
tcctgttctt ctgagtcggg gccatctgga gaacatgtca atatgcgccc ccgaatagaa 1200
gt 1202

<210> 2749

<211> 1724

<212> DNA

<213> Aspergillus nidulans

<400> 2749

tctccaacgg aaatcagtct caacgaaaca gatcagtgct gtctacgccg agtttttcga 60
cagcacatct tggcgatctg gtccgcgcag tcgggttcca gccggcacac agcgcgagcg 120
agttccggcg cacgctcaga caatatatcc aaaaatttca cagccatggc cttgcgatgc 180
tgagctgctt ggacatcacg gggcggtatc agttcgaggc agtggttctcg ccgatatacc 240
acttctcgcg gagtctggaa gtggactacc ggttcgatgc gcgggtgaag gatattggga 300
cgacaatgag agagggggcag acggtcgtgg acagaatcga ttacatcgcg gatgggtttg 360
agttgagaca gccggtcggg gtggacgata tagtgatcct cacgctgggg tcgacgggtg 420
cagggctcgac gacgggcacg aacgccgacc ctccgctcag ggagccgttg cagccggggc 480
agggcgtgga cgcgaactgg gagctgtggc tggaactgga ggcgaggcat cccgggcttg 540
gggatccgta taacttctgc acgaagcaga gagagtcgat gatcgagagt ttcaccgtca 600
cgaccgagga cctggaggtc tacgcgcggc tctgcacact ctggaagagc cccgaggggg 660
ctggggccagg ggctggctcg ttcacgcgcg tgcaggagag tccctggcgg atgaacgttt 720
gcctaccgac gcagccggtc ttctcagagc agccgcccaa tgtgcgcgctc ttttgggggt 780
tcgccagctt ccccgaaaac caggggaaat ttgtgcgcaa gccgatggta gcgtgctgcg 840
gcgccgaggt catggaagaa ctgctggcgc atctacattt ggacccgcgc catctgatca 900
agcgcacgat gacgggtgcc agagtgatgc cgcggatgag cgcgatcctg ctgccaggg 960
cgctggggca tcgccagcg gtgattccgc cgtgcatctc gaatctcggc ctggttgggc 1020
agttttgcga gctgccgcat cagagctgcg tggatatgag ctacagcgtg cggacggcgc 1080
agcgggcagt cgcagatctg acggggctgg aggcagacga aagagatgag cggcactggg 1140
gtcatttgag cttgctgttc aggatcctgt tttggaagtg atccgtcagg ccatagcatt 1200
gcctcagtcg ggctagcata cctcctacca tccctaagct ctactagatc taccagctct 1260
atctccatta ttatctcatc actatcccag caccttattt ttccagcacc ttaatacgac 1320
cctatcttag catctcagta cgtccactat tttagtatct ttagtacatc ctatattctt 1380
cagacatccc tatctcaaca tctttagtac aagccatcgc gccttgctgt gggcgttgag 1440
cactggctctc tggtctcgcc gccgtttctt ctgtactgac agtggccaga tcacacgggt 1500
gagaaaaaga aagaaggggc cagtggccag atagcgatcg ggcgaggcgt gggggggcca 1560
tacgagcaag aaggaacata gcgtgggctc tttcctttac attcgcctcc ttgataggac 1620

catgcccgtc tcgagtcagg accctctgcc ctgttcgatt ggtggtaaag taagcatctg 1680
cctattattg ccatcaaaaa tgtaaagaga aggcagggta tgta 1724

<210> 2750
<211> 4268
<212> DNA
<213> *Aspergillus nidulans*

<400> 2750

cgcaaactgt tgtttttgat ggcgtcttcg ccgaaaccgt cgatcaagcg agcatctggg 60
actatctcac gaatagcgtc ggtctttcct gcaaggctac aatgtctcta ttctggccta 120
tggccagtcg ggcgccggta aatcctacac aatgggaacc gctggcccaa atgagcaaga 180
cgtagagtct tcgggtgagt ctgatggatt gtcgcaagat tgcagccact gataaagtca 240
ggtatcattc cgcgcgcggc tcaacttctg ttgagaaac tggaagggtc caagcattct 300
cgcactagct ccaccgggct ccgcacaccg tcgcgttact ctatcagctc tacatcgagc 360
ttcggaaaat ctaccgtcga caaaaactgg cagttgaaag ccacctatgt tgaggatatgt 420
gtatctcaat ttttagccgg cgagtctaac cctggcagat ttacaatgaa caattgaggg 480
atttgctcct ccccgactcc gtgtccgccg cagaccgcag taccgttact atccgcgaag 540
ataccaaagg ccgcataatt ctgaccggtc tgcataagat caacattaac tcgttcgagg 600
accttattgg cgcgcttaac ttcgggtcat ctattcggca aactgattcc actgccatca 660
atgccaaatc gtcgcgatct cacgctgtat tcagcttaaa ccttgttcaa cgaaagtccg 720
ccaatggtgt aacaacaccg agagagaagc gcatgtcgat gccacccgac ctctccggag 780
gcgaccagtc catcaccgtc gacagcaagc ttcactttgt cgatttggcg ggaagtgaac 840
ggttgaaaaa taccggcgcc tctggtgagc gcgcccgcga aggtatttcg attaatgctg 900
gtctcgccgc gcttggaag gtcattctgc agttgtcctc ccgtcaggcc ggatctcacg 960
tttctaccg tgactccaag cttaccggc tacttcagga ctactgggt ggaaacgctt 1020
atacgtacat gattgcctgc gtcacccag cagagttcca cctcagtga actctgaaca 1080
cagttcagta tgcgcagaga gcgagagcaa ttcaaagtaa gcctcgtatc cagcagggtg 1140
ccgacgaaag cgacaagcat gctgtgattg aaaggcttaa agccgaggtc gctttcctgc 1200
ggcaacaatt acgcaatgca gaagatagtg atcgacggac agtgggtccc caggaacgca 1260

cagaacgtca gaacgagcga gagattgaac tccagaacca gctacttgat gtccaagagg 1320
gctacaacgc actgagccag cggcatgcga agctaataac cgaacttgca cgggattcaa 1380
ggcctgcaga tgcagagagt gagtctattg tgggcgactc tgtcgagaga ctcaagcggg 1440
cacactcatt tgcggaatcg gtcgagcagg tcgtgcttga atacgaaaag acgatccaga 1500
gtctcgaatc ttcgctttca agcaccgag cttctctggc cagcaccgaa agtaccctcc 1560
tcgaacgcga gaccaaactg acttacgtag agaccgtcaa tgcgcagctt caggcccgca 1620
tccaaaagct catggaccgg gaggcgagca cggagactta tcttcatgag ctgaggtcca 1680
agatagatgg tcaagcctct ggggaagagc aacacgcggc aatggtgtca gagctccgta 1740
aagagctcgc ccgagctcgg gagaacgagg ctagctgtga agaataatatt tccacactag 1800
aagagcgcct agccgaggcc gaccaggata tggaaactcat gcaacgcgag atagatcggc 1860
tggagcatgt tgtggaccgc cagcggagcc tcggaaaact ggataatctc ctctacgagc 1920
tcgaccacat tcagcaaat ggcaagaaag acgaccaaac ccctgaacag cctgagagga 1980
cgtccactcc tccaggagca taccaacctc gaaagcgcgg attgtctctt gacgtgctca 2040
ccgaagccgc cgaaaccgct attcctgatt ctgacgaggg tctgtctgat ccgattcctg 2100
aagaggacga ggaccaggct acaccagca agcccggtgc aaaacaagggt gattctggcc 2160
taaaaatact cgaaagtgtc actagccgcc ttaagtcagt tcacgatgca gagcctctga 2220
gccccacca gatgcgggtc gtctctgaca aatttgaaac cgagactcat gagcttttcg 2280
attcgcgcac gcagcatgag aacacactca atgactacga gggcctcgag gccataatcg 2340
aggaagccat gagagtcatt gcggcacttc gccaggactc atcagaacga aggccgtcac 2400
tatgcctccc cccaaaacca tacctgtttt agcccgatct cttcttttga ggatccacaa 2460
ggccccgcg tcgaagactg gaacacaaca ttccttctcg caatcactct catcggagtt 2520
atccttggcc ggggagcctg cgacttcgag agattcatat aatgtcaaca ctctcagac 2580
taccgttggg tcacaggagc gaagtgtgcc gaacgggagc cagcagcagc aagatatgcg 2640
caaactcctt ctggagcatc aagagagcgt gaacgcaatg aaacaaaagt acgatgagct 2700
tcaggccgaa cagaggaca ccttgagctt gattgagtcg ctcaaggccg agttgcagag 2760
atctaggtct tcgtcgccgc cggcaactcc tggcttcaat gtcacccgta ggaagaccag 2820
ccagagcatc atgtcaaacc ttgatcgcgc tcaccgatct ttgaatggaa tgcgtactat 2880

tgctgtgag gaatttgcac cccgcccaga tactatgcag aactttgaac ttcattctga 2940
 gggagcgatg catgaactcc atgtgcgtat ggagcggatt cagcaacttg aggcagagaa 3000
 ccaaagtgtg aagaaggaga tggagatgaa gtccaccatc atctctggac tcacccgcga 3060
 gcgatctagt ctgcaaggag cttccctgtg tgaccgtggt ctctgtgaatc aattgcgtga 3120
 ccaggttgtt cagcaggaga acaccctcat gcagatgaag gaagcccatg atcagaggga 3180
 gaaggctctc atccaggaaa tagaagagct caaggcaatt ctgaagacct aggaggaagc 3240
 tgccaaggcc caggatgccc atgtggagga gcaggagaag aaaattactg atcttgaggg 3300
 tgagctgacg gagtggaaga gtaagcacca gaccgctatt gactctttac aatcctccga 3360
 gaaccagctc aagtctaccc tggaggaact gaacagtga cttgccacaa ttgactctat 3420
 gggctcagcc aatcctgccc gtgacgccac ggataaggag gcggctgcca ccgagctgga 3480
 gagtgagcgt gcccagacaaa aacaggttgt cgatgaattg acccgaaaaa ttgaagagca 3540
 cgaaagcacg gctgccacct atcttgagaa gatcgcgctc cttgagaagc tgcacgacgc 3600
 ccagaagcag gcattctgact ctgcatccac gtcagccgag gttgaatcgc gccaggctcg 3660
 tattgcggaa ttagagcagg agattaacag tcacaggagt cttgttgagt cgtacaagaa 3720
 ggacttgaa tctttgcagg agtctcaca acgagagttg gaggagctgg aatcacgggc 3780
 aaaggctgca cgtgacgctg agcatgagtt ggcctggcg gagcagaata aacagcacga 3840
 agaggccatg aaggctctgc gttctgaggt ctccagaatca cgagacgagt tgggtaagct 3900
 gctcggcatg gtttccaacc taatcaagtc agatgtcacc gcagacaacc tcgcggacca 3960
 gatacaagac atcctaattgc aaaagcagca cttttctgac aagtacgccg agctgatgga 4020
 cacgaatgag gatcttcgca agcagattga agcaaggcaa aacgatgaca gccgtgtgga 4080
 agagctcaac aaggctatct ccgtcaagga tggcaaggtc aacgagcttg ctctgcttgt 4140
 cgctaccttg gaggacacgc ttctgcagcg cgatgagcag atcaagaaga aagacgcct 4200
 cgttgccgaa gccatagctg agaagcaaaa aagcgcgcgc ctctgtggagg aactcgagga 4260
 ccagatca 4268

<210> 2751
 <211> 1089
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2751

gatttgttgt gctacgagga aagaaaaatg ctgaaaaagc tctggaggct gtgaacggga 60
aagaggttga tgggagaacg ctagctgttg attgggcagt ggagaaggaa gtgtgggaga 120
atattgcagaa ggaagaagag catgcagaac cagatgtgaa ggaggagtcg agcgatgttg 180
atatggaaga cggagggggtt gggttggata atggggagct tgatgaggat atgagtgagg 240
acgatgatga ggaagatgac gaagttagcg atgaagaaga tgaagacgaa gatgaggaag 300
aagaagaaga ggaggaagag gaagaaaaag aggacgagag aaatgcctca accatattta 360
tccgcaacct accattcaca tgcgatgatg agtctctcta cgaccacttc acccaattcg 420
gaccgctccg ctacgcccg ctcgtcgttg atccagaaac cgaacgtccc cgcggtaccg 480
gcttcgtctg cttctggaag cccgagcatg cgcaggcctg tgtcagggcg cccctaaaca 540
gcaagaccct ctgcgccgag aaaaggaaaa ggcaaaaagg gcacgatcat caagcaatcc 600
gtcctgcaga atgagaatgc cgatccaacg ggccgataca ctctcgacgg ccgtgttctc 660
cagatcagcc gggccgtgag caagtcccgt gccacacagc tccgcgaaga aggtgtctcg 720
aagcgactcg tccgcgacac cgacaagcgc cgactctacc ttctcaatga aggaacgata 780
tcacctaact ctactctcta caagagcctt tcgccttcgg aaatcaagat gcgcgaagac 840
agtttcaagc agcgacagaa ctttatccgc aagaaccct cccttcaact cagtctcacc 900
cgtctatcca tccgtaacat accccgccac gtcacatcaa aagacctcaa gcagttagct 960
aggaagcaa tcgtcggctt tgccaaggac gtcaaggaag gtatacgcca accactctcg 1020
agagaagaaa tggaccgcgc gtccaagag atgagagagg cagagaagct gcggaagaag 1080
aaaggtgtc 1089

<210> 2752

<211> 1535

<212> DNA

<213> *Aspergillus nidulans*

<400> 2752

tgctgacca acctggaact cttggatcgc ccctaccacc catgatactg gacacaaata 60
cagacgcctt gtctttgcc gcaccacga acagaacgaa caactcggaa tcgcgtcaga 120
tcccgaagcg ctcaagaacg aagggaaac aattggcaat ctcgatgacg tcgatattgt 180

ggatggaaaag gtctacagtc ttcccgctga ctgtcctgcc tgtgccaagg agtgcaccgt 240
 caacatgcag aaggtggata ttccatactt caaggaagtc tttatcttga gcaacgtctg 300
 cgagcactgc ggataccgct ccagcgatgt caaaactggg ggtgagggttc cagagaaagg 360
 aaagcgcacg acgctcagcg tcgagacgat tacggatctc caccgtgata tcctgaagtc 420
 cgatacctgc gcaactccaca gtgaggagct tgaagttacg gtccagcctg gcactttagg 480
 cggacgattc acaacggttg aaggtctcct cactgaaatt cgcgaccagc tcaagggcca 540
 gatctacgat atcgacgatt ccacacaaaag cggaggtgac agcatgtcag ctaccgacaa 600
 ggagaaatgg gctcgtttct tcgaccgtct tgactccgcc attaagggcg acttgaagtt 660
 ctccatcacg cttgaagacc ctatggccaa cagctacgtc caagactagt gcgctcccgc 720
 ggaagaccct caattaaaga ccgaagagta taccgggact gaagaggaag aagaagagct 780
 gggctttaag gacatgaagg ttgaaggata cgaggcagag gcgaacgaga aggatggaga 840
 ggaaaacaag tcatgaccta ttgtaacgat acccacacag acattggaat gtctccatta 900
 tgatctttcg gtcttgatgt tatgataact aggcctctga tgagtatggc gataatagag 960
 catgaaagag attgatagag cgagaacctg tgagctcact ctcatgacat ttattactgg 1020
 aatgccgtat tgtcatcacc gccggccgac tcttgtatat atataaacta ccttgctgtg 1080
 ctgaccttct tctgcgacca gttccttttt gctcgaggta catatcatgt gggaacccca 1140
 tcacgacctc acgactggtt gcctaagcta ttaccaataa cccggtcagt ttaacctggg 1200
 atatccggct tctgctgaag ctataacctc aggaagctgt ccttggatcc actaagtccc 1260
 ggagcctctg agttgcctgc cacttacaac agaaagtagc cggggcctga ggtatacgaa 1320
 ggtcaaatga caggctgttt tccgtcattc agtctagaac aggaaaaacc gggaaagccg 1380
 ttttccggag gataccctaa aaattaaacc ggaaatgcct ccggaagaaa tctttaaaaa 1440
 attaatacct cggctttgta aacaccgcc cccccaagaa aattccgctc aaattaaatt 1500
 acattatata ccttatacag aaagaaccaa taaat 1535

<210> 2753
 <211> 994
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2753

aaatgtgggg aacaggaggc actgctcgtg gattgaaaat ccgcaggagt cgtcaatgat 60
 tcgaatggag ccgtgctaaa cctagagtgt cattgagcgc tctcaattca atgtctccac 120
 gaagcgcaag ctggtggctt cattcagcat tattgtccac actaagaaaa gaagaggcag 180
 gccaaagcca gtgtactctc tgcctatcat aggcagcagg caaactgac ataggtcgct 240
 aatttcctgt gaaggtacaa gttgaattct ttaagtcctt tttttgcttg tatccgaacg 300
 agtcgcaggt acatttttct atcaggtecc atcgtaggca gcgaacggaa gccatctgaa 360
 tcctaaaact caaggtgcta ataatgtgta tatgaccaat cttatccata tgcttcggaa 420
 tataatcaagt gaccctgca ttcctatcct acatatgtac gcgctttgta atatgttctt 480
 tatttcctac taaaaggagg tttatgaaga tctgacatgt catggatgtc gcaggctttt 540
 tatattgtat tctattttta ccgagcacia tatctcaaac tcattcgta tcaactttctt 600
 cgtcttcttc ctctcactg ctctctctt cctcagcttc tgcaagccag tcaatgaact 660
 gttgctctg agctcggact ttgcgcctct cttcgggtact ggtcgaccgc tcgtctgccc 720
 accattgctc taaggcctcc tcttcgacaa cttccaactc atacagctcc ttggccagga 780
 acagaagcac cgtctcacc cggggacggg ggacgagatc ttgctggaac tgaatcagaa 840
 ggtccacctg atcaggcttc gcgtcggtgt cgcggtcaaa cagtgcacgc tcaatgattt 900
 cgtgatactt gctgaagata tcgtggacgg cgtcccttgc tcctgttca cctttcatca 960
 actgcgccac acgcttcata aaggctgaag tgac 994

<210> 2754
 <211> 1362
 <212> DNA
 <213> Aspergillus nidulans

<400> 2754

ttggaaccag gtcactcttg cattgacaac actcgctact gtcgtcgtca gctactttcg 60
 tttgcttgaa cattatggca agctctactg agtgccaaaa agggagaact atattatcaa 120
 cgagtaaaga tacatgtaga ctcggtgatg gagacgtagc tgatgattcg cgtggatctc 180
 attgatagag gaagggacgg gataataaga gaagaaacgg gaccaagaac ggactgtcga 240
 tcatctagag atctgcaggc tgggtttcca ctctggataa gaggtgcacg tgcacccgga 300
 gcaagacgat tcccgtgac tcagccacag gtataactta acttatctca acggccttcc 360

tccatttacc ttcatatatc cgcagggaca ggtccactat ctggctaata cggttcgttt 420
 agttggctgc agaatagagca caccgactcc cccgcggcgc gccggttaggt tacgacgcgc 480
 ttgcgacttc tgccaacaaa aaatgtacgt ggatagcttg acaacccgct gcaagtgcaa 540
 ggatacgtcc cttacaacgg aaatattgac agattcgggtg tgacggcggc aaacccgatt 600
 gcgaaccatg tcgtatttct ggtgttcgct gcacagtgc gcggagggtcg cctcggttaag 660
 aaatagcgcc aaacagtaag agcaattggt atctgttgca gcattgttgt taatacttct 720
 cagacagctt gccgaaacca aagcacggat tcgggatttg gagccctggt taccctaate 780
 agcagaaacc gccagcctct gataatagtc tgtctattgg gtatctacaa gatccacgtg 840
 atcttgacac tggcctggct atgtttcgaa gagaggtgtc tctgtgcggc gtcggttctt 900
 ctggctcagc agagagggaa ttattctgct ccgctgttct ccaacaaact agctgttatt 960
 tcgatgtcga ccaattttta caaggattgt ccaaagcgtt tggcactagg gatcctcgag 1020
 actcagaaaa gccgacagtc caaaagtagc caccacggca cttagtccag cgctgtttgc 1080
 accagtatgc taataccggg ctatattcag tctttcttgt tgccaacgtt gaagcgttgc 1140
 agaggttgct tgatgaaaat gccttgaca ctcaaateca gcagaaccac accgcacatc 1200
 tggcctgttt agtggctttt acttcccaga ttacggaaat catagacttg agcccgctt 1260
 tttggattcc gattcggatg cttacatacg tgctgtgcta tcaactgata cccgactgtt 1320
 aatcgaggat cctagcgtga gaagcttaga ggcattcgtt at 1362

<210> 2755
 <211> 1993
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2755

atgctcatca tatggactgg atggctatgg atgacgactg cacataagcg ttcttctttt 60
 cctgtaactc tcaattatgg tataattcata ctatgcggcc accctgaate gacagtacta 120
 tggaagggct gaatatgcca acctggcagt ttctacgga atcgccaaca gattccgcaa 180
 gtcccggcgg aaatcagagc tctgagttta cccaacaggc tggtgactcg ggtgctacct 240
 ctgagcacc taaaaggcac tatccaagtc gcttatgtcg catttgctg gagaccgtgc 300
 ctccaaccct tgttctctct tcggaacata tgcttggett ccttcagcgc ggagttcgtg 360

tcgtctacga gtctgaggat ccggagctcg ggcgccttct caagccctgc aaatgcaaag 420
 gttcatcccg ttatgtccat gagggatgcc ttcagacctg gcgattatcc agccccagcc 480
 acgacaagag acgcttctgg aattgcccga cctgtggctt tcagtaccgg ctagagcgcc 540
 tcacttgggc gggctggatc aatagcccaa tcagtcagat agccttgact agcctcgttt 600
 tgcttttgac cattttcttg cttggtttca ttgctgacct tatcattaat ttttacattg 660
 acccggtgga aacggtgtat tatgccgatt actgggagga aaatagttaa cttggcgcca 720
 aaagtccac ttggattgat cactttctaa aaggaatgac atcgctgggg ttgctgggct 780
 tcgtccagac tctttatggg ctgcgcctat ggcactggtc taccgtacga tcgtccacga 840
 ttgttcgtgg tcgtgccagc actggaaggg atcgagtttc ttctatccgc tggatcgttg 900
 ttgtgctcgg cattgcgagt tttttctggg tacgtatcct atgggtcccc atgcatactc 960
 ctgggcggcc gctgaccact tgaaggccgt ctacaaaggt gtaagggcgt ggagccgttt 1020
 gatattggaa agggcaagtg gacgtgtaat ggacgtcccg tcacccgacg acgacgatga 1080
 tgacgaagcc gaggacagcc acccgaaaac cgagtagatt cggttggttag tctgtatccg 1140
 acctggcgca actctgtaat atcccaaata gcacaacttt aagtgtgcac ggtcctgtca 1200
 atgacgtgcc aattagtcaa cgtgcgaata acgacaccga ccctgcttaa ccgcggagag 1260
 tttgagagat agatactgtt gggaacgttc tgttcccttc tgttccctca tctcgtaaaa 1320
 tcaaacgttc tttgtgggag ggtcgaattg cagactcgat ttctaccggc gctctcgcag 1380
 tgggcgcttc tgattgaggt gcggtacatc atctgttatg tagcgagttt tgattaggaa 1440
 tgaataacta tgttcaaata gtctattcga ctcataaatg agcgttcttt cagtgttttc 1500
 acttacacgt gtcagacact atctattccc ttcaggttca tcagacgatc ctgcggcca 1560
 gtgattccga cggcgatatt ctagagtggc agcaactagg accgggagac tccatagcct 1620
 acataaggac gtccttgcta ctcaactggc ttagtccagc aagctctaga gcttccctcat 1680
 cttgcgcacg cttccattag tatcaaagta tctcgcaaat cttggactct ctcgaccaac 1740
 aacagcagcg aacctccagc ggcctcactt tctctccaat tgactttccc aggtttctgc 1800
 attgaggagc acaatttacg tcactggtga tgttcagcag cttctgttaa tttgactcac 1860
 tccttaggta ggatgggctg ttcaggctca gtgcgctctt tacaggttca ttctgtccaa 1920
 gccttttccc ttgccaacag gaatatcaaa gactaggcat gtcattcacc tgggtctcaca 1980

tttattggtg gat

1993

<210> 2756
<211> 1422
<212> DNA
<213> *Aspergillus nidulans*

<400> 2756

acttcgtttt attgectgcg cacggtgtgc gctattgctg atttggtgtc accatggatg 60
ttcaggagac ccagcgtctc ctttctgaat atcttcatga gctcgcgaat cttttccatc 120
gcgttccggg ttcggcaatc tttctgcgct atgtgaagtc tagctaccag aatgacccca 180
tccgctcggc cgtcagattg tttctattcc tgttcgccgt ccgctatttg ctgcgccgga 240
agtattctac caagcctggt gtcgtccagc tttcggaaga tgaaattgat gacctagtgg 300
acgaatggac accggagccg cttgtgggaa agccaaccgc tctggaggaa atggagatag 360
ataagagacc agttattgcc gggtacgaac cgtgaagcta cttgtccctg cctgcatttt 420
cgcatgctga ttctcagagg accatagccc cgttggctct aaagttagac tttcaaacgg 480
tcgaacagtg atgaacctcg gttcctacaa cttttataac ttcaatacga acgagtctat 540
caaggagaag gcaatccaga cacttcgcaa ttacgggtga gggccctgcg gccccgagg 600
cttctatggt acccaagatg tccacatgaa gaccgaggcg gatggtgctt cctatcttgg 660
cacagcgtcg tgtatcatct actcccaagc gttttcgacc atatcaagtg tgattccggc 720
attctcgaag cgagggtgata ttattggtgc ggacaagggc gtgaatttcg ccattcggaa 780
gggtatacag atctcgcgga gtatagtccg gtggtacgag cataatgata tggaggatct 840
tgagagggtt ctggccaaga tcaccaagga gcaagcgagg aagcctctca ctcgacgatt 900
tatcattact gaaggcttgt tcgagtcgta tggtgacatg agtgacttgc ctaagatcgt 960
tagtctcctt ttcacttct taatatttcg gacatagctg attagctgtg aagattgaac 1020
tcaagttgaa gtacaagttc cgactgatec tcgacgaatc atggtcgttt ggcgttctgg 1080
gaaggacagg acgtggtatc actgaacacc agaacgttga cgcggccgag gttgacatga 1140
ttgtgggctc gctggccggc ccattggttg cgggaggggg tttctgtgca ggatcggagg 1200
agattgttca ccatcagcgt atctcggccg ctgcgtacac gttttcggct gcaactgcctg 1260
cgcttctgtc cagcagggct agcgcacaa tcaacatcct gcagaacagc cccgagacaa 1320

tctcgcacct gagagacctc acaaaggcaa tgtgggcgca gcttgaccct cgcagcgatt 1380
 gggttcgaatg tacaagtgcg cccgagaacc cgatcctggg cc 1422

<210> 2757
 <211> 1599
 <212> DNA
 <213> Aspergillus nidulans

<400> 2757

ctacagagtt tgcgattcta acagaatcac atttattaca cccttgccag cgccacagat 60
 tctcttcccc accgtacttg ggaggaagg tcaggacac gcgacgagca aactcctgca 120
 taagacatac atgatgatag tctcaggcgt caaggggaac acaccgatgc catgcgtacg 180
 gcgcaggac gcgcagaaac aggagcaata cggcatacgg tccgacgttg gtcgactatt 240
 tgacaattat tagagattat caccaagttc cacggtaaca acggcgtgcc ccgtcagttc 300
 agcgccgatc gatcggatcc cacctatcta tctatctatc gagatagctg gtcgacccaa 360
 cctctaaaaa agaaaaatga gaacggcagg gatgtgatgt gggaatccgg cccagcctc 420
 acttgcaaat aggctagcaa gaacggcgtt gttttccctt ggcgggcgcg ggctggaagt 480
 ggctggccgg tgcacgcgc gtctgtccg ctggtgcctg gaaagctcag agaagacgat 540
 ctcgttccag acacgttttg catcccactg tgactgacaa ccgagtgtgg caggaatcag 600
 cgggtgggctc ttgccccgac tggatcgcgt tcccaggaac gtcggaaacg gaaaaagcac 660
 gttctttggg tcgaaatgaa tatagcgagg tgcaccgaag cgggaagcag cgcacgaagc 720
 taggaaggag cgagttagtc cagttttgag tagcgaggag gatgcatcga aagcccatgg 780
 aaccccttc atgctgtgtc aactaggcg aggtacctgg ttctgattcc tagctcgtta 840
 cagcttttca gcgtcgaact cctggctgct actgacattc cccaggctcg cgacaaacgg 900
 ttgaacagtg agcagagagc agagagccgt gaaactgaaa cccgaggcct gacataacta 960
 aggaacacaa ctccgagatg tcaatagaaa gtcaatccag gcacctcaac gctctcccca 1020
 catgcttctg cccctgagt ggctgccaa gcaatccttt cctacggctt aggaccgcg 1080
 gcgaaggatg gtcgcgtcgc atccttcttt cagtaactcc gctaccgttt tgattttgtt 1140
 atgattgacg agcatctgag aaaccaatat ataccgagtg gatcagttat gaccgttcat 1200
 tagacaacga taaccagatt tggccattgt ttgagggagc ctcaaagggt ggcaggcaga 1260

atcgggctgg gcatttcagg gcccgtggga tgaagagcgt tgtccactgt ccacttccac 1320
 ccgtccagtg ccgtcacaga aatagaacac gaggcttcac gacgaacctc agcatcctgg 1380
 agacagacgc atgcaggatg accgcagtac cacaattcaa gctgggaaga tcacaccggc 1440
 agtacctgca tccaagacaa ggggcttttg agacctgtca tccagctgca tctcaagcta 1500
 ccatgctttt ctctctcttc gtgccattcc gctgggtttt tgcagagacg gtcgatagat 1560
 tccgacaacc gactcgattg tcgatactaa ctggagggc 1599

<210> 2758
 <211> 1701
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2758

tggtgtgttt atcgtcaaca tcaacatata gaccaggaat tgctagcttg aaatacctta 60
 tatattaata atattcgac tctcatgcct ttgattttat gtgaattcgc tgttttgaag 120
 cacctaacag cgtattccct tcttgactat tgcctcgca tgcagcccct tgcctttaat 180
 gagatagaac ctgggcccgc gcggtctgag tcccctgcgg ccaagtttac gacctaagta 240
 aagtgtgaaa aatctccaga accgtacagt gggagattca gggccaaatg ccatcatgtc 300
 aacgggttca ggatcgcgga agcgttcttg tctcaccat cattccagtc gtcagagtc 360
 tgaccgaacc acctaatcgg taatatacaa agaattgact ccttttctcg tctttctttt 420
 cttcttttct cacagttatg cagtcagca tatcctgaat ttccatcgtc ggtaaggaga 480
 atcgggaagaa gtttcggttg aagactgggc tgacgggtaa cacatatgga tgagaatcat 540
 gccggagtga agcggtcaca ggacgcagag ttttggcagt cacattcgtc aagcagtctg 600
 acatagggga acttaggttg tcttgaaagc gaagtgcggc tgcgtgcttt tcaccgtccg 660
 gtcctgagtg gacaggctct cagcgtgtta acgtgcatct ggatcgctcc ttgagaccac 720
 agagactcca tgcggttctc ccagctccca gaagtcgcgt gacaataagt cgaaagccgc 780
 aagcctctgg gtcggcagca ttaccccgaa aagtgagttg aaaggttatt tggcccgaca 840
 ttggtcttat ttggtacct atcacgaagt gctatcggcc ggatgctgag tctcgaggca 900
 accttcaatt tccagtcgct attatgtgtc catgggtcaa tcgagtcagc tcgtactcgt 960
 ctgactcttc aaaatgggtca atcgggagcg accttgacca ggaggccaag ggccaatctg 1020

aggttcggac cactattgca ctccctgaaa atgaacaaga cgagcgcacc atctgccaat 1080
 aaagtggcta gagctagact aagtacagtt ctgccctttc tataaagcat cgctgtcggt 1140
 aacagtttta atctacctgt gtgctagggt cgactacata tgcagcctta aatagtgtct 1200
 cctacctaga gtctgcgctt tcgaaaagtt gatataccct tggatcactt ttgatgtact 1260
 cgtccagggt ataattcccg tatctgtggc agcggactat cttagcccag atacacagcg 1320
 aactgggaca gggctttctg agcctctggc taaaaagtaa taacaaactg ctggaaccgt 1380
 tagcaggag aacctgcacc tcattaaacg taccattact atctcctagc tgattaccct 1440
 aattaaagtc taaccttttc gacggatctt tctatgcagt atactccatc ccaaaaagcc 1500
 gctagtcatt cctcacctca taaaagatgc tgaatactgg aatatcaaca ccagtcgga 1560
 gccccatttc atcgagtatt tcggaagccc tcatgatccc aatctcgtgc gacgcgcgag 1620
 ccgctgaata tgcacccact tatgtcagcc agatgtcgtc ccatgtaggt ggttcatcgt 1680
 ttaagcaaga taagacaggt a 1701

<210> 2759
 <211> 1594
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2759

atacttgagc aaatattgca acgtcttcat cgtgcttgct gcatccactt agtcgtcctg 60
 aggcgccccca ttatcttaat ataaccgtct cttcaaccta atatatcctg caactctgtt 120
 agcggttcaa ttacacgacg aagcctatth cgtgccgttg tccgctgctc aaatgcgtag 180
 gccattgcca tgagtgatth ctcgctccat ctcggtccta gaaagctgat tcctaattgga 240
 attcccgag cagcgtcgac gagatcccca cgaccgttat acagaacgga cgtattcgcg 300
 gggaacgaat caaatggaac ggtaatgact ggcgtaacca caatactggg tatatctgat 360
 gccaaagatg aaggcaggac tacagcgtca agattatgcc gtgccagcgc acccaacaga 420
 ccccttctt cgccgaagcg tagagattgc tggtaaaggg gccagaaatc tggagatgaa 480
 ttgttgatth cagcaaaaag cgccctgtcc cactgttgcg tgttcctcgc cggatagtcc 540
 tcttcagcgc tttgctgcgt gaagttgcca atgtcccca gtccacgaag attgtttgga 600
 ttgctagaca aatcggagag ataggttgcg aagccactta ggatatctgc tgctatcacc 660

tttgatggag cgtcactttt caggtaggat tcataagctg tgaaattcgc gtcgtcgatg 720
 atagttgcac ctgcgtctct gattatttca acagccttct cgaacgagga tataattgga 780
 ctggccatgc catggcgcat gcgaaagagc gcttcgagga catttcgagg gatgcctatc 840
 cgctttcctt gcaaccacgc catatcacac gctgcggcat actcgggaac tcctgtttgg 900
 aacggcgaag ttgatgtata attgtcgttc gcatcttgtc ctgcaatggc ttgtaggacg 960
 agggccgcat cacggacagt cctagccatc ggtccaattg tatccaagtg ctgctgaca 1020
 ggcaccacca tgtatcgga cgtcagaccg actgtcggct ttataccaac aatattactc 1080
 ttctcggctg gaagtattat actaccagac gtcttgaggt gaattagcag aaactagtaa 1140
 cagaaagagc atatcactca cctcggttcc cagtgttgca aacgcgagac ccaaaccagc 1200
 agctactgcg ctgccactcg agctcccgct tggatcctgc tcctcataat aagcagcata 1260
 ggtctggccg cctatagcat tccaccatt cgaggagta gtagagcgag tatttgccca 1320
 ctccgacaga cttgtcttgc cgagtactat cgcaccactt tttctgagat ttacgataac 1380
 cgtggcgctg gctcggacct ttgccccaac aagggcatag gagccggctg ggacagcgat 1440
 gtgtcagtgg gagactccat cacctccgtc attgtgagtc gagtcgagca cataccagtt 1500
 gtgtccattt ggtcaaatgt tcctatgagg tctttgacaa gtatcgggag cccatgaaga 1560
 gggctagttt gatgtcaact ggctacggtc aagc 1594

<210> 2760
 <211> 636
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2760
 attcaaagga cgtaaagcag cttgagcaag atgccaaatt ccgagatcgg atggtaaaat 60
 caccgagtgt aaccggcgag cagctatgta ctcccttacgg tgtgcgggta aatgcccggc 120
 ccagaggcgt aaaagccacg gcctcggctc agtcggccaa ccgtcaatcc ctccctccca 180
 gagactcagc cgacccttct tcttctctcc ctctcccttc cttccgacca ggcgatttct 240
 ttcttctcct tctgacatca attgggtatt gcaatctcaa tcctatctct gtgtcctttc 300
 tcttctcttc actatgtctg cctcttcagc gctgagacgg ctgaccacaca ggtctccccg 360
 caatctccag tcccgcacg ctctcgtctc ccgcacctct tgttccctt cgtcgacggt 420

caactcctac agagcttctt catctcctgc tttacctcgt gcttcgagat tctcaacaat 480
 ggcttctcta cgatcggcgg cgccaattcc cgcgtcctcc caagtggact atgactctga 540
 aatcaaggac atggccgact acatccacaa ctacaagatc gactctgac tcgcggtatg 600
 agctccaatt gagaaccaat tatggattga tgggggt 636

<210> 2761
 <211> 1246
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2761

cctaaatgtt gtttttgaat tcttcgtcga gtgtttaatt gctgtgagcg ccgagagctt 60
 aaatctgtgc aagccgaaat actggccgat tcaagacagg ttcacatgac acctgcaaga 120
 cttccatttt tttttctcaa gattccatcg tgcataacgg tgctaataatt ctacttggat 180
 atcctcaatt aacacagctc atcttcaggc acaacacgct agtttctcac ttctgcaaca 240
 gataccgaat attcaagccc aagcattatc tttcaattcc tagcggggtc aaacaagagc 300
 acccctcac agccagtgcc acttcattcc cagttttgaa aatacccaaa caacgctccc 360
 ttccggcacgt acccctgta aagactctgc catctggccg caaaagacgc ttcgatgggt 420
 cctagttctc cgaatccaag gacctcgagt atccagggcg tcaatacagc caacacgccc 480
 agggcaataa gcgtcgcgta aacggggtgt tcagttgcga acccaattgc ggcttctttc 540
 gcctgagcta cagcatcagc tgcagccttt gccatcttcg ctccgggtctt gatcgcgttt 600
 tcgagaccct ttagcgtcgc ttttgcgaga gcttctgtcc agcttgtggg ggagatctgg 660
 tcattgagct ccttgtggag agtatcatgg gagtcggcgg taaggatctt ggtgacaacg 720
 tccgatgcta tgctttctag ggagcgagag gaggtggcgt tgacgggtgtt ggtgggtggga 780
 ggacgagtc cgaagataca gtcgaggaac ggctggagga tgcacatttt gcaaagatag 840
 aacggagttt tgttgttaaa aaagtcttgt cttgttctta ggaagaggaa ggaacgagag 900
 gccgagaaca gaggaaatat gaaaaggaag gctgtgttag tgagaggctg agggtttcac 960
 tgtgttgcta gaaagcgtac cccttcataa tgagcaccgc agtattaaca aatgcctcaa 1020
 tctagacgac aacgagaagc aaaacctctc gttctcgact cagcaacaaa tcagaaccct 1080
 gaatagccgc agctaccatt cgttgcacat cactgtatct gcattctcaa cctcgataga 1140

tttagggcaa cttagcctag acaccttgct acttatgtta gcagcgttct ttgcatcct 1200
cacattacca gaacaataaa acctcgacgt cttcccaacc caaaat 1246

<210> 2762
<211> 2056
<212> DNA
<213> *Aspergillus nidulans*

<400> 2762

aattgtgtcc tctatatacc taagggtcag gtaaaggaaa gtcggacgga gcggccaccc 60
tcgttctactg ccgggtgggt gtctcacgct cagcaacaat atgtatcgcg gaggtcatgg 120
cgtccctcaa tttatctttt ccacgggcat agtaggttga gctctaacgt ttctggtagc 180
ttgctaacct agatccagtt gttacgtccg tgcaagaaga ctcaatgtta ttattcaacc 240
acacctacga tttgtgtaag cagcagtact acattggaaa gcattcatca gacctaacaa 300
cttcgacaga tacgagttgc taaagtggga agaacttcaa caaaagaaaa acaaacagcc 360
agtgaagaga gaacttgaat gggcaactgt agctcgcgag atcgccctca tgaacaagcc 420
ttattcgaga taagtagaac atcggagttg gcaacggcca tctactcttg ggactactac 480
acgagacaac actgatatac catcagaagc gattaaataa cgacactcca tcgatgcac 540
gataataaga acgatcagac gaactaacga gccatttttt cttcttcttt ctattttatt 600
ccccgttctt tcttgatacg atctaaccgg actggacttg attttgattt tggcgctaga 660
cggatttgat ttgacttgat ttatatggat atgcctgcgt cctttcagtg acatgacact 720
actacttctc atttctttct tcttatgaaa ttcaatctat ttcgtgaaca tgacatgccg 780
ctttatttga ggggctcatt tgtcttggtc cctcaaattt cacgctcaaa aggaatctcc 840
ttggctgtag ttttggagag caccgttctc ggtttcctgg aagtagatac ctgcttgacc 900
tacgttccta cgcttttata tgcttgatgt tttcgtaacc tgccaataat cgttatctta 960
gcagtgaacc gcctatacct tactctacga cagctggatt aaccgcacct gctgtatggt 1020
caactgacaa caagaggatt atacagcgcg ctgctaagtg aaaggtagca tgagaagctc 1080
ggggcgctg aataggacag taggatggag gactggacca gacatcgcat tgcagtttag 1140
atattcccg cctgtcctcc ccagcaacct actctgtata cgagtcaggg taagtggaga 1200
acggagagtg ggtggggaaa gtgcgggaat ggcgtgccat ctacgggtaa cctaactcc 1260

atccatctca gagccgccat tctagagaca actcacatcc ccgttcaacc ctactgataa 1320
 ctgattctgg gctcaggtag catctttcaa actaaggacc tgtgatgata atgggcaaag 1380
 gagaaccaga aatgatagt accaggaaga gattgctgca gtgcccggaa gaactttcca 1440
 ttgctggtca atcatccaca cgcagccaag caacagggaa ttttcaccgc gtgggggaat 1500
 cgtcagatga gagtcaagct tctgaattat aagatctata aagctgaaag ttttacagt 1560
 catcaaaaag ctgctacatt atcagaagcc gaccatctcg acggtcaggg gcagcttcca 1620
 cagcaatact ggtactattg aagccttca aacgatctag atatgttggt ctttaaacta 1680
 cgttggtcag aatatagtaa agatcacttt ggaaatagga atccacatct cgattcctag 1740
 cagcaagcgt aatgtcagaa gccctgccc gctctagctt cgcgcggttg ccagggccaa 1800
 gtccagcaac tcaccatcta tcagcaccta cgtattggga aatctgcaca gaatactgcc 1860
 aatatgaaaa gagtgcgtcg cctcccgata tctctgccc tatattcatc taatcccagt 1920
 tgcaggttcg aagttcgaac agcttttacg actcggcagg ctctctctt tatggatgta 1980
 gtacatttgg tagagcaata tctgggttct cttagattgc ttaccctgct tcaaaacctc 2040
 actcgaggtt taagaa 2056

<210> 2763
 <211> 1367
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2763

aaccgcacat tgaccattga gcaaccagc ccctttccac ctttcctgc accgcttgca 60
 tctttcacag cctcaacac atccgtccct aatgcagacg caaggagttc accgcctcc 120
 ccagcgagtc gttcaaggta agcatagatc ctctcctgc caccgcagac ctcatctctg 180
 aagttgagtg ctgcaggac acacgcatac gcgctgtcgt ccgttggtcc tgtgaactca 240
 aagagcgcga cgaacgggga ttttcagta tttgggagcg tggacggagg gatatccttg 300
 tcttcgcctg attcagaagg tggaacctgt ggcggcacat acccccatga cgtagggaga 360
 cttgtccgga tgaacttctg gttgcgctcg ggaacgtata agactgcgca ggagcgcgga 420
 gtgtagagcc acctaagcat aaaccatcaa gcctgcgcta gggtaatgaa aagggagaga 480
 cagggcatac ttatgacaat tactcgtgaa gaagtccacc cctaacgcgg ccagatccag 540

cttgatcata ccaaccgcat gtgctccatc aataagactc agcacaccct cttccttaca 600
 agccctcgta atttcttcaa agggaaacct gatgcctggg tttgacacaa ccgctctcaa 660
 gaccgcgagc ttccgggtca agccctcttt tctcacgctc ttcagtgcct ccctaaacct 720
 cttgaccatt cccccccttt caagggggaa aacatactta accttctca gcttgacgcc 780
 ccaggattcc tttagggcaa agagggcgcg ctcgacggcg ccgtagacgg tgtcaaagta 840
 gaagataacg tcatctgcag tcagagtacg ggtcagtgcg agattgtgca ggacagtgtt 900
 gacacctgtc gtggcatttt tgaccaaaac gaggtctgag acggggacgt taaggagggg 960
 cgcgagggcg gcccgagaag tgtcgataag gccgggctga atgtaacgga tgaagatgtc 1020
 gggcctagat tcgagagatt tctggatgga ctgttgcttt tcaaggacct gggaagggtg 1080
 ggtgccgaaa gagcctgggt gtgtcagcaa ttgctgtaag cgacgttgaa ggagaggaaa 1140
 gaccgtgggt gagattgttg taattaggat cgaggaggaa gtgcgctttc atggggggcg 1200
 caaacggagt tggagaggcc atggctagtt tagaagggtg ttggagggtg aaagagtga 1260
 agaaaatctg gaacgttatg gagccattta actaagttaa ttaactacgt ggagatgcaa 1320
 aatgccaatt tctgtgctac tactgatcat acatcaatga gtcacag 1367

<210> 2764
 <211> 3768
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2764
 aacactcggg aacatcttgg cagactgcac gaatatttcg ttgatgggat tgaagatatt 60
 gatgtgccca agaacatacc cacaatggcg cttgcatatt gagtttttgg ctttgtcact 120
 ggcgggttaa atcatagaca cccaaattag tagcacgagg agcaagagta tcagccctac 180
 cagccgtctg aagggggcga agaacgcttc aagtctgaac cacatcctag gaaggagtgc 240
 attgcccttc ccatecgect cctgtgccag gcgctgectc ctgattaggg tccgttcttc 300
 cctgattaaa gcgtccagct ctctcggtc cttagaggat aggtgatcga aatttcccc 360
 acagcggccc tctaattggc gccgtcgctc cctgttcgaa tcaagctgaa cagtgaaggt 420
 ttgcgttcca actttctgca tttgataagc gaggaccacc tttaatcaga cgaataggta 480
 gaacggcaag acctgtgaat gtatccaggg cataaacata catccaatc gtgatcaaca 540

agcccagagc aaaagtaaag ggcacgttcg cgcctgcaa accagcagtt agcactaact 600
tgagagcgag tttcaatatg agggtcctca cggttctctc ctagtagact cttgaagggg 660
tcaagaccgt tcccaccatt ggctctggaa atgggcacaa aaacgccgac aaggaacaaa 720
attatgagta tggcaatgaa tgatagtgtg tatttagaag cccccaaaa cgcgtgtccg 780
gatgattgct cccctgtttg agctgccact tcacgtatt cctcgtagca aaagtagaca 840
aatggaacaa caagaagaca aagaagaatg tccaaagaat acaagatgta atatacaagg 900
gtaagagaga acgttattct atccactact tctggagtcg cccagtcctt ccgttgtccc 960
acagaggacg acacggtgga cgaaactaga gcgacatcga ccggtagcag aaggatagtt 1020
gcaagaaggc ttgtgattgc gacaatgcat gtcaaagtca ctgatggcga gcggtcgcga 1080
ggagactgat acacatagat gaacaccgaa gcaaccgcaa acaagaccac caccacgact 1140
gcatagacga cccagattag cgatgtttgc agaagaatca tgctgaagcc tttgacaatt 1200
agagatgcct aaatcttctt ccgttgcaag agcttgagga taatgaacct gacaggatca 1260
ccttacgtca tcgaagtcag gatcacgtgg aagcgcgag agctctccgt gcgtgcggag 1320
gaaaataatg atattatacc aatgccagc cctcaaccgc aagagcagtt gagattgtcc 1380
aattattgcc gattgggacc aattgacggt cctttggcgc gtctataata tatgaacggt 1440
ctgacattta tcacccaag ttttacgtcc ctttctctgg caatgtctct gccgcacag 1500
cacagctgaa gtgcaacgac gtagatcctc aggttatagc ctttgcacct cacgaacttc 1560
tctttacctc ttacaagccg aaatgcagtg ctacactgaa ttgatatctc cgacaggagt 1620
tactcatgcc ttggcagttc cttttctttc agcgactgct aacaacctga tcgtcgcccc 1680
gacttcgctt cttcaaattt tctctttacg cgatgtgtca ttgagtgcac ttgatacgga 1740
agttcgaccg gcgcaacaca ggcaggaaac gtgcaagctg gtcttgaaa gggaaatca 1800
actgccaggt acagtaactg atatctgtcg ggtaaagatt ttgaagacaa agagcggcgg 1860
agatgcagtt cttgtggcct tccgagatgc taaattgagc ttggttgaat gggaccgga 1920
gcgctacggg ttatccacta tttctatcca ctactacgag cgtgatgata tgaccgtag 1980
tccatgggcy tctgatttga gcacttgcyg cagtatcttg agcgccgacc cgggcagtcg 2040
atgcgcaatt tttcaattcg gcgcacgaag tcttgctatt ataccttttc accagcccg 2100
ggatgactta gtgatggacg actttggctc cgaacctgac tacgagaata gggtagaagg 2160

gaattcgaga agtcatgaag ctaaagataa agacgcccgt gagtaccaaa ctccgtatgc 2220
 gtcgtccttc gtcttgccct tgactgcgtt ggacccttca gtcattccatc ccataagtct 2280
 ggcccttcctt tacgaatata gggagccgac ctttggcata ttgtactcgc aagttgctac 2340
 ttcacatgcc ctacttcacg aacgaaaaga tgttgttttt tatacgggtca ttacgcttga 2400
 tttagaacaa cgtgcctcta caaccttgct ttctgttact agactaccta ggcacctgtt 2460
 taaagtggta gctctcccc ctctgtagg aggatcgcta cttatcggat ccaacgaact 2520
 cgtgcataatc gaccaggcag ggaaaaccaa tgcagttggg gtcaatgagt tctctaggca 2580
 agcatcttcg ttttccatga ccgatcaatc cgacctggcc cttcgtctcg agaattgcgt 2640
 cgtggagcgc ttttctgacg ataatgggtga ctttcttttg gcactctcga ccgggggtatt 2700
 cgctctggta agcttcaagc ttgatggaag gtcagtatct ggtatatctg ttcggccctt 2760
 gtccgggtccg tcaaaagagt tcttggcttc gaccgcatcg tcttcagctt tcttaggcaa 2820
 cggcaaggctc ttctttggca gcgagagcgc ggattctgtc ctgctaggct ggtcttctgc 2880
 ctcatcagcc acaaagaaat ctttctctgg gagcacttca aacgatgaaa gtgaagatga 2940
 cgcttacgaa gacgatctat actcttctgc gcctgctgcc atgacagaca atcctcaaaa 3000
 tcaaccgagc aattcgtctg tcgctgcgtt tgggtgatttg cgaattcacg acaggctttc 3060
 cagccctggc cctatcagag acattgtgct cgggaggagc tctgaagcgt cttcgcgtga 3120
 cacaaaagac ggcgtgctag agctagtggc agctcaaggc tcggatgaag gtggtacaat 3180
 ggtgattatg aagcgggagg ttgatccgta tcttgtagca tcaatggctg cagacacagc 3240
 aaactccctc tggacagtct ctttctacc ggataacaat gatcaaaaac gtgactatgt 3300
 catactgtca aagcaggaga aacctgacaa agaggagtcc gaggtgtttg tgctagagga 3360
 taaactcagg ccaattacgg cgctgaatt taatccgaac catgaattga ccgtagaaat 3420
 cggtagcttg gccagcaaga gtagggtaat ccagggtattg aggaacgagg tgcaagtta 3480
 tgatgctggc gactgcctgt cagtccgaag aagagacata ctaattgagt agatcttggg 3540
 ctggctcaaa tctatccagt atgggacgag gacgatagtg atgagagagt agctgtcaat 3600
 gctactctcg tggaccctta cttggcgatc atacgagacg attcaacctt actactacta 3660
 caggccgatg acagcggaga cttgatgaa gtgaaaatga acgaggatgt cgtaagtcaa 3720
 aagtggctgt ctgcctgctt ctacagcgat aatgctagtt tcttcacc 3768

<210> 2765
 <211> 1271
 <212> DNA
 <213> *Aspergillus nidulans*

 <223> unsure at all n locations
 <400> 2765

```

ccctactcgct actttgccga ctacctttcg tgggtaggaa gttcaaggcg aagaagacaa 60
tgcgactgc cggagagcgg ctagtggagt ttagatttt gcattcggca tcaaaccgga 120
ttccaacaat gctagctctg gagatatgga cacgggtgca gatgaggatg gagacgtgaa 180
tgacgatagc gatagtgagg gcgggtacta caccctcacc cttcccacaa gagacgtgga 240
tctgccagat acggattgtt tgaatgagga gaggcaagag gccctctgga gaaaaaact 300
ccaatgggcg ggcatctcga atgtgaatac agcgattcaa gtcgagatct gagccatgtt 360
tgttgtctac gacggagtcg tatagttcct ttgagcaact gtttctgacg aaatgctttt 420
cgagaagaga gcttcacga gccttcgc atagattgct tggcatattg agtgatactt 480
ggaaagaaat aagagattgt ctcccttcgc aagaagacgc ccgcgaacgc gtttcgacgg 540
cagaggggtgt cagacacttt atcgagacgg gccaggacag tcttgcccac ataatgaggt 600
cccaggggtct ggggttaatga aataaatcaa ctgctgcggg cgacaaataa caattcaata 660
gggggcgtac tgcgtactat gaacgaggcc atgagctaca accactgcgc ctctgcaaag 720
acctcccggc tccccgggc cttttgcct gtctagagtc cgtgggcaga gtgacagact 780
acacaaacac ggcaaatagt ttcaattact gagatgatta gcctttttta caggtattga 840
acagtatgct gtagatatgc agtggaccct ggcttgcccc gccatccgcg tattccgcag 900
acagtgcagg cagcagcttt tttctaccct atccttcaaa aaacagtcga atacaggctg 960
cgggtgttca aattcactgc tcttgcggtg tatcatgagt ggcaatcatt tgacagggtg 1020
atccgtgcag aatatatggt agaaattctg agagggaaca cagccctaac ccttgagccg 1080
agtcggttct actgtcggag ccctgcctat cccggtctgc cggcgacttg gagggctaac 1140
aagccctact attgtacagt aaggcatggc gtttctgtag attgcttaag atacgggtct 1200
acaagagtgc catcngcatg gcaagggta atccactctg caatctacat ggcacaggtc 1260
gaagaacca a

```


<210> 2766
 <211> 1532
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2766

```

aatgggaagt ctgttggcga ccgtagcgaa ccacccactt gggatcccag tggttggctg   60
tgaaggtgtc gtaggcgtgg gggaggtcga gtctgccatg acgtaagaag cagtgtttgt  120
atatgaggag cggtttgggg gagttgggca cgagggctgt cggggagata gtacattttt  180
ctatctcaag agcgttttcc attgtgagaa tgtttgaagg atggtggatt gagttgagga  240
ttcttgataa cggtgattgg aaagcaagtt tgtggaagag accgttctag gttcggatgg  300
tccattgcgg atctccaact catgcggggg catgactcat gcagccatgg aatctgaaag  360
cattctgttt attggctaatt tggaaatgca atatatagcg ggaagatagg atcgggcagg  420
agatggatat agggctaggg ctagggcatg acatggacat aggtaaaggc tcccactcat  480
tcaccggtct atcgtatgca tggttgttag tgattccctc tgcaaataata tccttgtcta  540
tagttcaagt gtcgaacctg acgagttggg tcttcttcag cgggagacgc tgggtctaga  600
agtaaattgg aagcagatcg gttgtatgga atcatggtag aaggctacct taaatgacta  660
taaagttgcg gccaaaggaa accgtgtttt aatgtcctag ggtcatttag gcttaggcag  720
tctaatacga ctaacaaagc aatccaagtc ctcaaagccc aattggagtt atatcacccc  780
aaatatacca tgcaagataa gtacggcctc accatacgta cactttcctc gcgcatacga  840
aggtccttgc cagttggagc tcggccttct cagccggggc aagcgatgtc aatctatgtt  900
gatccaaaac ggtcagaggg gggcgggctc ggggcattct tgatagtttc ggggcttttc  960
aacgccaaac ggttcgctta aagaaggctt ttgcatcgaa tctgggggtt gccagtatat 1020
atttttgatt ctagccgtcc aactccggac tttttcttgg gtctcatggt ttggctccca 1080
aacggcctca aacgtaggag cttgtcatgg gagggttgca ctgtcctatg tacttgtgcc 1140
ctggttgcaa tttgtagtta gtcattatca gaccctgtag gagtcgccgt gggccatggc 1200
ttccgttgtg agacgctaag cagcaatcat tgctggttcc ttgcaatatt ggccgcaata 1260
cattgccccat tgcgatgggt tgacacatga ctaggacctt aacttacgag atacacatta 1320
aagagaaggc agcagccagg atgaaggatga ctctgcctga gatacagggg aacaaagctt 1380
ctccgctgcc ttgcctttta ttcagtgtaa attgtcaatc cattaccaga aatgcaaggc 1440

```

ctgaccaagt ggatcggctg atgatagtca cattaacgat acgttcatgg cagacaccct 1500
gaacaagaag aatatcatag gattcaaaaa gc 1532

<210> 2767
<211> 1476
<212> DNA
<213> *Aspergillus nidulans*

<400> 2767

cacaagccga gaagctttgt caaatcctga tacttttcga gctcatttgt gattcgtgca 60
attgcatcgt agtacttgtc ctgtttggtc aactgcgcca aacgcgtgaa ctcgagagag 120
agagagccaa gtcggcgag aacagcctta aagtcccccc ggcgaaactc tgaagcatatc 180
tctgggctcc atttataata gagggttggc atccggttcg gtgtgtcgaa ggcgtccatc 240
aagacatccg caagctcaac agacttttcc aaaagtatat cgtatttgtg tcccgaata 300
tcataggccc cgagcatccc gcctaggtag cgaatagtgg tttcaaagac cggaatctct 360
ttcttgggtgc tgggtgtaaa atcgattttc ttgacgtagt cgactgccat ggagaactcc 420
tctttgagat ccatgatcca cagggtatcc aaggcgctga caagggctgc gcccagcca 480
ttgaatgtgt ccttgaaacc accgcgcaga ggtetaacct catcatgacc catggcagag 540
atcttgtaac cgttccacgc atgtaagaac gccgacttga tagtgtcaag ttgttgacgc 600
cgctgcatct tgtccgagga cgactcgtcc ttgaacttag cttgcagttg ggggagttcc 660
tttgattgcc cggttggcag cttgatcaaa gcctccggac tgactggatg ccgttcgggc 720
atcggcttcc agtgagaaat tgggacaata tcctcatcat cttcatgttt attttgggtc 780
tgcgaccccg tctgaagtct ggcggcatca aattcaggct cctgagatgg gacattgctc 840
ggggtgtcca ggcgttcttt tgacggagtt gggctgtcat ctgaatctgt gtaaagtgg 900
ggtcgttggg attcttctgg ctctaccaac gcaggcggag gagccccact gccggtcgca 960
ctattgtcgt tttcgtatgg atctttgagg ttctggtcgg ggaaaggggg attatgggtga 1020
tcgacgggcg gcggaggtac ctgcaagatt gcaggctgat cgtaactgcg agagcgggcta 1080
aagtgaata tgaggaggac aaatataacg gcaaacacca gcgagatgcg agatcgtcgt 1140
gcacgaaaca tggccggcga cttccctgta ttggaggcgt agggaggagc ctaataatca 1200
gcagtaggag aggtaggacc gtgggtcaaac gtaggcaacg agagtgaagg cgccgcagcg 1260

ctggaaagaa ggaacgtcga aggacagatc actcgcagaa tgcagagaat gatagtaatg 1320
gaaagggggt tcaatttctg attttcatgg catctcgaaa cctaaggctg tggtcgcgcg 1380
aggtcgcgca ggttaacgag ttgcggtaag gacaggatgc agagggctga agttctgggg 1440
aaattcagct aaagggttga tcaaagacgc agagcc 1476

<210> 2768
<211> 844
<212> DNA
<213> Aspergillus nidulans

<400> 2768

tactgctgcg catgacaagt agctctgtcc agtacaatgg aatggccatc atggagaaaa 60
aaatattatc acaaacattt atttgacatc gaaacatgca aaagaaccgg cttattgaaa 120
ccgtggggta aagcctggct tccatttacg ctagagacag caggctggac agcatcggct 180
acaagcatcc gatcacgttc aaccaacttg cctggccaac taggatccag attcagcatg 240
catactagtg aaccaaata actgtattct cttatatact attactgtaa acattccatg 300
tactacagtc gaaggttatc tgcgtctgct atgcaacccc ggccctccggc ctcaccggcc 360
cccagatata catcgacgca gcaccctcac tcttctccct ccctgtctca ttatcctcgt 420
tcaccaggtc accatcagca taatgttcaa tcgcaaaccc gctcgggtcc ttccagtagt 480
caaagatctg cgagccgagg atatgccggc ctacgcccga gatgggcgtc cacttcttgc 540
tgagcaggta ctctggccc agtagctggg tgtcaaaatc ctccacctcg aacgagcagt 600
gggtgcatttt ttgcttttca ttgaaatccg gtggcgcgcg tgaaaggaag acggtgtggt 660
ggtcgacgta ctcttgccg tgatcgagat gcatgaagggt gagggcgta gtctgcgcgc 720
ctgtcgcagc attctcttcg tagagaacat cagaggggaa aaagttgaag gtctgcgtgt 780
agaaggccac gtcttcatcg aacaaaactg tcacgtaccc aacgtgaccg agtttgtgaa 840
tcat 844

<210> 2769
<211> 4046
<212> DNA
<213> Aspergillus nidulans

<400> 2769

ttcgaatctc tcttgtgac tcattgagct tttgcagggt cacaagcacg ccgctggagt 60
 tgggcgcgct accaccggag agtgtaccag acgggtcata gacatcacg tcaagagtaa 120
 cgctcttgat acgaacagaa ggatcaaagg tcacccgctt cgctgtctca gcatcggtgg 180
 caattaaagt gttgccgaaa acgtaattca tggctgcagt aatttcttca tcatattcaa 240
 tgagcgacaa agccaagtcg acttttcttg gagcgagggt ttgcgagacc ccaatcttct 300
 ctacagacgc tcggaaggca gaaattttgt tcagaggaat aatggtcaca cgcttgcgga 360
 gctttccctt ttgaagaagc tgcgtaccag tatcggaaga gtcaacaacg acattataca 420
 ggcgaccgcc agcgcagatt tccagagctg tagcagcctg gagcttctct ttgtccacag 480
 tgaaaagctg ggctacaaga cccttgacct tggatcgggc aaagttcggg tagggatcag 540
 agtagttgaa ttcgatattg gcaacctttc tctgaagacc gtcagctctc tggcgcaatt 600
 cagggatttc tttctggagc ccgctctgtt cttgatatag ctgctcctcg cgcccaggct 660
 caaaacctaa cttcgagagc tcatattcca atttcttggc ctgagacttg aggccttcga 720
 gttcttttag aagccctgaa tctgctcct tagccttctt ggctcgcggg tcttctcct 780
 tgatcctctt ttccaagtgc gcaatcttga gcttcgcctg ttcttgttct gtagcggcgt 840
 tgctcgcacg gttccgggcg tctgttaatt gacctgata tccgcttctt tggccttctt 900
 tcgaagcgac accggtctgc aaagtctgga gcaactctc cttctgttcg acttcggctg 960
 tttgtgcac aagttccgct ttcgccgat catattctgc ctgcagttta tcatatatct 1020
 tctttttctc cttgagtgat gtttcgaggt ccttactga cttctggagc tctttgctct 1080
 tctccttctc ttcagcgata ctgcctttt tgaggtaaaa aacagtcgtc aaacggacta 1140
 gctcatgaga atgagccttg acctatcct caaggcgctg aaattttccc cctttgcgta 1200
 gtccttgtc ccgaaccgcc ttgaccgct ttacatctc ttccatgtgt gctatctcgc 1260
 tcttgagctt cgccgtgtta tcttcagtg cctggatctt tcgcttcttt ttctcgcatt 1320
 cctcgccaga agcacggagt cggtcgccgc tcctaagata gtcagagca accacaaggc 1380
 gggtaaatcg ctccaaatca ttctgtgtct gctggaaatc aaggaaagct cgcttctcag 1440
 ccctcagttt ttcgagtttc ggctcaattt cctcctttaa taaaccttca atttctgta 1500
 atttcaggtc ctttttagcc atcgtcttcg ccgccttttc ccgcctatcc tcaaacattc 1560
 ttgttcggc cgctctctca atcatcgaca ggatttcccc cgctttcata ttgagcacct 1620

tcgtaatccg tccctgcata atcaaaaagt ttggattggt gatatttaac tgcacgctct 1680
 ggaataaatt ttgtacgggc tgttgttggg cacggtgccc gttaatgagg tatttgctag 1740
 tcccgccgag aacaatttgt cgcgtaacgg agatggtcgc atattcttcg aaccgatcg 1800
 gtgatttcgc ggtgtcccta ttgtcaaaaa cgattgtcac gtcgctttg gtaacgccgg 1860
 cctgaccgag cttgtagatg agatcctgga ggttttgcgc tcgaactgtg ctcataattg 1920
 tgatcccgag cacgaaacag atggcgtcga gaatgttgga tttaccactg ccgtttaggc 1980
 cagtgattga gttgaacgat tcatccctag gaatcgaagt taacatccac ttatacacgg 2040
 tcgcaaattc tgcgatctgt agatgacaac gaaagtccgc cacataccat cctgaaatca 2100
 ctgtacgcac agcgtagat ttgaagccct gcgaccggat tagtgatcga accttcgatg 2160
 gcaactgaatg gtatgttatg gaaaatgcct cacgtcaatg attatttctg tgatcctcat 2220
 ggttccgaaa gcagacgggg cccgtcaact tgagaatccg cagcatgagg gagcagcccc 2280
 gagttgtttt gcgggagatg ttttggcggc gggatcatgt gttgatgcat tcccgcttgc 2340
 agtttagcgc tgctgagata acggcccagc tgaggggtat cacgtgcgta ttcccaatac 2400
 ccttcctctg ttatattcag aaagtactcc gtataccac ctctttaatg acgcatattt 2460
 tggacctgag ttttgacttg ggaggacttg gggctatatt cacttatttt ctcaggaaat 2520
 ggtggcctaa gtggtcgtag ctgctatgcc catatcttca tccgtcagcc ttgtatagtc 2580
 atactacaca gggcatacgg agtacagaaa gcatagccct cgactgacat ttagcctcaa 2640
 acatgcttcg ttttcattac tactcgcgcc tcacatccaa ccgacttagg tggttatagc 2700
 tacctcactg aggctttggc ctgtgacttt attgaataat ggactcctga acaacaacaa 2760
 cagcgagaat tctccgaaac gtgggaccc actattgcct gtctcaccaa tggactgaat 2820
 caccacagta ctttactaca tcaacggcct tcgagaatga catacaaacc ctaaggattc 2880
 cccagctct catatctttc agatcttggg catctcttca aagtacggtc actccaagtt 2940
 cctttagtat acattcccgc tgccaccgat attcatacca gcacgaccat aacaaacgac 3000
 attcctgacg ctcttgaaaa aagaaattca ctagtcatgc aagcttgagg agcgtcaccg 3060
 ggctgaaaa atggatttcc gtatagtaag ctttggctgg ctactgcctt gctcttctac 3120
 cttccttcga atatgactgc tgtattgcca atactattaa aaacagccag cagtccgaat 3180
 attctcgcgc caaactagtg agtccgatgg cggctctcgc cggacgagca tatgattgaa 3240

atattacctt ggatcagaaa atggccaac cttcgaagta gacatggggc agtcattgga 3300
 ccgttgtagt ttccgccctt gtgtaaacgg tcgagcatgg tactcgcgtc cacttctctg 3360
 aagggccaaa ccccgccaga cacgtctcac tagcttcaga aagtagtgcc ggtttggcag 3420
 aatgtgaact tattcagttg gaccaaggct cgctcacggt gttgcacgag ggtcttgaaa 3480
 aactctggga aaggcggatg ctaaataagg gtgtgtttgg tcaggcagtg aggcgtctgg 3540
 aaaatgaaaa gcccgcacgc gtctatgttc ataactaga cgccttaatt agataactag 3600
 tcggagcttg ccaatccgct ggccagtttc gcttaagggc tgcaaaatgg tttagttctc 3660
 tcagctttct acccattgat gtgcacacgt atattttgga agaactgagt cagttagggc 3720
 ccttatggca tccactgcat agtagcacag cttagtgcc cagtcctcat gcaatccatt 3780
 taattggtct caatagatac cctatttata ccaatcgta catgggtcgt gagaaaaaaaa 3840
 aaagcctgtt tcagcaagca tggtaacact taccggata accataagg aactgccagc 3900
 caggaagtgg accaaacgcc gttgctgac actgtaccgt cctacgtata ctctaccca 3960
 ccgaactcag gcgattatga cccatgctgc ggaaatgcga ctgcgcacaa tgttcggttt 4020
 ggatccattc gggtatccag gtcctc 4046

<210> 2770
 <211> 923
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2770

tactgaacat ttccgcagtc cgtgcatggt ttaccagggg tattattatg agctgatctt 60
 ttttcatcgc tattggctaa tgatttattc ctaccctcc atgatctct cctcggcgct 120
 gcaaaaacgt tagattgggt acacgacaaa agcgatatcg aattacttac tactctctct 180
 cgccttcgga gatggaggcg tcctggtact gctggtactc ggagacgaga tcgttcatgt 240
 tgctctcagc ctcaagtgaac tccatctcgt ccataccctc accagtgtac caatgcaaga 300
 aagccttgcg acggaacata gcagtgaact ggtcaccgac acgcttgaag agctcctgga 360
 tggaagtaga gtttccaatg aagggtggaag acatcttgag gccgcgggga ggaatggagc 420
 aaagagcggc ctggatgttg ttgggaatcc actcgacgaa gtaggactgg ttcttgctct 480
 ggatgttgcg catctgggtcc tcaacctcct tcatggagac ctttccacgg ctgaaaagat 540

gttagtcaga gtaataaatg taaagaagga taatgacata caagatagcg gtgcaggtga 600
 ggtagcggcc gttgcggaag tcagaggctg ccatcatggt cttggggtcg aacatttgtg 660
 gggtaactcg ggaacgaacc accccgaaag agaagcccc agcttgtcaa agagccaacc 720
 caccttgaga attgcaacaa ggaagggacc atgtgcagca gttggcagta aagtaattta 780
 ccggaattaa gcaagggtccc cgaatacggc ggacaggggt aacaccatga ggtgaggggt 840
 ggggctctat ttttaggtta tcaacaacca cccctcgaa ttcacttttt acaaaataat 900
 actttccttt ttctaggggt tgg 923

<210> 2771
 <211> 525
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2771
 tgcccatctc tttccgcaga agtttccgaa cgaatgaatc cgggtcttga acgaactttt 60
 cagcgtaggc taggaggtaa agaccgcaat cagaaaagtt cggctgatgt gggatctcct 120
 ttgcggtcat gcctttgacc aaagatttgt caatctcgat gccccgcttc gactttgctt 180
 cggcgaagag gtattcgcgg aggatactga tggttccga acgagggagg tcaagtgaat 240
 cgaatgtgat gataattggt tggcaagtac tgtatttcac tccatatgac cggtttttct 300
 tgggcttgcg cgacttctta ggcgtccac ttgcttccga gtctttctga gtttcgggct 360
 gcggttggct tgaaggggca gccaaactcg cacgggctgc atctggataa acatcgcggt 420
 ctgaccattc attttcgcct ggcttagacg cctcttcttg tggaaacttg gtgtcgataa 480
 ggctcataga agctaacgac tgcctagctg tttcatcttt gatag 525

<210> 2772
 <211> 1256
 <212> DNA
 <213> *Aspergillus nidulans*

<223> unsure at all n locations
 <400> 2772
 gggcccggcc cgaggaggag gaggatgatg gtaagactgt tgggcggggt ggagatattg 60
 cgacaaagaa ggtcgatgcg aactacttcg gttatgggct tgatgaggag gatgggactc 120

tgctcgctta tgagatgcag agggagaaaag aggccgtgga gaagttacgg aaggagggcg 180
 aggacgagga ggatggtgag gatggatggg aaccgttgcc tggggacgct ggggatggca 240
 tcgagtggcg actgccaacg ctggaggagg tgcaagagga gcttgtggat aggaggagaa 300
 ggcggttttt ggagaagatt tcataaggtt ctcgtttgca tcttgtctct aggcttggga 360
 tttcgtttgt tttacggcgt aactcgtgac atcttgaatt tacacttggt gactaaggct 420
 gtacggcttt cgttggcttc atcttatact gtatatgctg ctagcggggg atattttatg 480
 tacatagatg ctatttttgt ctaactgagg ggtctgttgc ctgctgtcgc ctcgctgatt 540
 tctctgcttt cagggcttgc gttatactga tactggcttt gtcctcgtcg cttgactccc 600
 gacgacgtcg ctcttcctgc aggtcgtcta atatgaacct accgagcccg ccaccgcgcc 660
 acttttggat gaaatgtaaa gcagcaaggt ccatattcgg tataccaccc ttggcaagca 720
 aaccgtact gcgggcaaaa ctatccaaaa gcgggtgaac ctcatcgtc ggtagggacc 780
 agcgtgata tacagtggga tcgtgcaggt taatatggta gagcaagtag tccgctaattg 840
 tgaccggaga gattaccgaa tctttaacgc agccgcaaag ggccagcttc aacatattct 900
 ccgctcagg cacatagggc ataaacacgc cgggtgtatc cagcacataa acatgggcgc 960
 cattgtctcg ctctatgatt tttacaggcg ttccgatttt ccgctgatg cccggttggg 1020
 ccccggtgtg cacggctttc gcctttccca cgcgcgatt ggcgaggta ttgattaatg 1080
 ttgacttccc gacgttcggc atcccgacaa ccataacgcg acagccaacg agcctgtcgg 1140
 gcccttgggc gtcttcgcgc agatgcgtta ggatcgtgtt cacatcccgg cggttatttg 1200
 ttcgagactt tgatncgggg tctaaatgat gtggactgac gaagaaaacg ggtgta 1256

<210> 2773
 <211> 1729
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2773

caggaactgg ggtgaagagt ctcaggcata tttgcagcta tatgtttatt atttctcgcg 60
 aaaccatgct cactaaactt aggggctaata agaagctctt atgcattcaa tcttgaagct 120
 agcactttgg atatagtgtg cagaaccaag aagtaccaag agaaattggt agttgggtaa 180
 actggtgcgc actgtagcag ctggaatcga ggcttgatta ttccaaagga tcttgcacat 240

atttcatcca agtcagctga accctggcag ccaccctcat agatagcaga taticctataa 300
 cgcccgcaaa agctagctga ttcaaattct gaaatgccta gagatagata ctgggttagat 360
 taaaatcaag aaagcacgta taatgatgcg ctgcatgaat tagcagtaca ctataatctt 420
 atttggatag tacttgagaa agtacaaaac ccagttctta ccggctcttc tagttatccc 480
 acaggcatag ttgtacgct ttctttatga ggtataaagg atctgcttgc tctgtctgtt 540
 tattaggctt gtgagtctt ctcatggtat ctgttaagta attataggta ctcatattgc 600
 tgcttcttta tgccctgggt agccttatgt ttttaagcaa gtatcgctgt ttgatactag 660
 actgcctcac tttctaagtc aaattaagct gtttacctag cttaaccgat tcaattgctg 720
 ctagcacctc ctttttgggt ggtgtacaca agacggctgt tacgtggtat ctttcgttag 780
 acggtcaagc acaaagcaac acaggatacc ggaaaacaat gtcaagaagg ttgcaaactg 840
 acatgcggtt tcttatctcg ctctcatcgc cgtcagtagc ttggaaacct gatctggggg 900
 atgaggcgaa ttgggaactt agggcagctt tggaattgcc accggcgctt cccaacgtgc 960
 agcctctcca aagggaagg agtatgcgca gaatggccct tcccatcgga tcggaaccag 1020
 ttttcgggga ttctctttac tttttttttt attttatttt ttctccatat ttctgtgcct 1080
 cgctccgtac ttggttatgg tattctgttt ccaggatcgt ctgccactg ctgttcaccg 1140
 ggtagcctga gccgcggccc agctggagca tccagctctc agccctgctg cgaccatcgc 1200
 catccggggc tcttgacacc ggcgccagat actccatgac tacagagacc gcgggtcgtc 1260
 agttgcggtt cgctctacgt gcacctagcg cacgttgaat gcaacgcttt ggtggcaaag 1320
 ggggcaattg gcggcctgaa cgccatcagg accctattca gggactagca agatttagtc 1380
 tagccgcaca gaaatttcca ccagatcaca catcccacac tccgcgcgtc tgtactcttg 1440
 ggccgttgat gtttctctcc cctctctagt atgccgacct cgacgtcgac aatcggctgg 1500
 actttggcca acgtggggcc agegccacc acgtacctg ccgtccatc atgcaccgct 1560
 gccagctccc tgatcttggg ttggcagaac ttgcgagagt cacaatgggg agtcagctgc 1620
 ggagtccctg acgactgctg gccgcaaccg acagactcgg ccttgaaaga tgagatcaag 1680
 actaaccctt tcatcgctcc cttctactcg cctgggggtgg catgtccga 1729

<210> 2774
 <211> 1226
 <212> DNA

<213> Aspergillus nidulans

<400> 2774

gaatgacgcc aagagctata aagaccgttc gtgctccatc atcctccatc cagtccacaa 60
cgaacagcga gaagaccagg ccgtggaaaa catctgcacc aaagttgagt taagctgata 120
gagaatgagt aatgggttggg aaggagactc actcttgctc cagttcaggg ttaccaaggg 180
ttctccagca tactgccggt agctatcgac acagaatgtg atggacgtcg tactccctaa 240
gcagcatcca aacgacacca ggccgaaaaa gatggtcggg acaatccaag cgtctttttc 300
ttgggcgctc cagccgaatc ccataagccc tatggtcgct gatagggcga tggggatagc 360
cattataagg cggaactccg gtcgttaaac tccaccgttg cgtcgtgtca tataccggac 420
aatgatatct gaaatcttac ctgccaccgc cgtgcctagt aagccgcca cgaacggaga 480
gatatagacc aggccagtct gaagagcggg gaagttatag gtctccctat cttggtagat 540
gtgggaaacg acctctgaca agacgatgag ccatcccacc gacagcgcgt acacggcggg 600
cgaccacaat actgccggat acgcgaacaa tatgaacgga cggatagcaa cccgtaacca 660
acgatcctgc gaaatccttc cgttccatgg tcgcaggtag taggtgtacg ggatttttgt 720
cttgtcacga agtcgattag tatactgaac gggcaagctt aacctgcag ccggatccgc 780
tgactcgctt cgcgcaggtg acggcgacgc aaatcgtcca gcttctagat cagaagagcg 840
agtcgcaccg ccgttggtta gcggcggaag actcggcttc tccgttgatt ccggatcaga 900
aggctccaca gacgggtctg ccacttggtt ttggctctgc accagagaca ccgggtccga 960
tccgtagggc aactcctgct tctcctgctc taactcctca tcttcgggct cgttttcgat 1020
aaagccaaca tgacccttct tggaccgctt ttgagaaacg gcatctggag catcctccga 1080
gatgtcacga ggatgagcat tggtggtgcg gccctgtga agtccatgcg acaccatgtc 1140
cgacacgctc cggtagaaat cagggcggtt gcggtgtcga cggggccgtg ggggtacgat 1200
ccagaagggt tccggcagga agaaaa 1226

<210> 2775

<211> 3869

<212> DNA

<213> Aspergillus nidulans

<400> 2775

gggtaacagt ctgtttgtct gatagacatg gaatttccta gctacatctc agcgccctcga 60
 agaggagtgt ttttgactcc gtcaggctgt attgtatcta gccttgccagc gtaagccagc 120
 tgaaagacga ccttgggccac cagatacagc gacgtctgcc tctgtccgaa gaagaccatt 180
 gttcctatcg tcctctccat cgcgtccagt ttcttttttc agaggccttt aagaagacaa 240
 actgcagaac agcaagttgt gagtggccaa cctaccata cggtcaaaga tggcattttct 300
 gtaccaatat caactagggtt ttgacctga ttgaataaaa atctctggta aaagacattg 360
 cgggggcaga cggatccggg aaacagcgga agtttcaaat ctgtttaaga ttccctagca 420
 tttgtcctat catgggggtg agcgagatac ctgaagtccg tgtaagatga tgatggcaca 480
 tttcgtgaag tctgtgcaat acctaactag ctacacacat acatcgctgt tcttgttctg 540
 cacctaacca gggtcctacc cgagaccact acttgtcatg actctaccat ttttccaaga 600
 gtcgtctgtg tatcagatac gtaaggagac cgcccgattg gcctggattt tatccggggg 660
 gtgtaccggt ttcacaacct aacctacatt ccacaactca caggaaacctc aaatcgaata 720
 cgtcaagaac cgatccagct ccggcgcca attacgctgc ggatcatcaa gtgccaaggc 780
 aatcccatgt gctgcatcag ggagaatcag cgctggtag ggccgaccc tctccgtaag 840
 agcattgata aacctcagcg cattctccac aggcactgtt gcgtcattcg ccgagtggta 900
 gatgaaaaaa ggcgggtgtct tgtccgttac cctagtctct gcagacatct tcttcaccaa 960
 cttctctggc gggttgtgcg ctagcagatt tgtcggcgaa ccattgtgag taattgctgc 1020
 atccattgag ataacagggt acgttaaagt ccgaaatcaa gatcagcttc tgggtttgtc 1080
 acagtgaccg ctgcgaggtg gcctccagcc gagtaacccc agataccgag tttgtcaacc 1140
 ttgactcgct tctggctgcg tatgtagcgg acagcgccga gggcttcttc tagtgggtact 1200
 gggtaaagtg gtgttgccgc tgtttcggcc gtagagtagt ctagcaccca ggcacgtag 1260
 ccctttgcgt tgaggtaagt ggtcgagttg gtgccctctc ggtcgagtga gacgtacgag 1320
 tagccaccgc cggggaggac gagcacggcg acaccgaggc cgttgttctc tgggtgctgga 1380
 tagtaggcta actttgatgt gttgaagctg cggcttctta gagaccgtgt atgaaataag 1440
 aggagcaggg acgaacctgg ggctaccatg cggacggcca gtcaccatgg tgaaaagaag 1500
 agaagcggca actgcaagtc tcattgtgtg tcggtggtct tatagggcta aattgataat 1560
 ttcagaacag atgtgaagag cactacctca atatatagtc atcaccccg cattctgcag 1620

ggtctctttt gcggggaaat agacaagcgc cggcataatt caggccgagc cctccatttc 1680
 cacggtgact gcccgtcag ttgccgtcat tccggctaaa tcatgttcaa tttaccgtgt 1740
 tttgacagtg ctccgtacct aaaaactacc tgataaggac tctgacgtaa tgggtattaga 1800
 gtagagtctg aaccagggtg gagctaagct ctttcggcgg aaatttcagc ggagcagccc 1860
 attcaagcag caatggggtc accaaggcac caatcagtaa atattgggtg tttttcctgg 1920
 ctttcgaaga acatactttg ggtcttggtt gtgctgcagc ccggctgagc catatgaggg 1980
 atatgctgta caactaattc gcggatgatg cattcaaggc ccctcaaaaa tttgtcgggtg 2040
 ggcagatgca cttgtcctaa actttgtctc tgacagggtc tattctaata gtcattcagt 2100
 attgacattc agtagtgata ttcatctttg gacaatagtc cagccttacc ggcaggcgct 2160
 gggcagcagc aggctagcca taagagccaa cgcaaaaggc ctatcatcag ccctaagacc 2220
 tttgttttga cttgagaatc gatgaatctc acctccgcac tgcgacttct gacatggcac 2280
 agatcccggt tccgggtgat tgaaagggtg gtagcgggga taatgcgcgg atcactggga 2340
 cagtatatat ttcaagcaac gggactttta agatagtaaa agattgcgggt atcccagatc 2400
 aggtagatta cagcctagta aattattaga cgaaataggg caccatgaat acaagtctat 2460
 tgatcaataa gcttgagcca atatttgtgc agagtaccta tgcgcagtgc ccaaaccagc 2520
 gcctacttcc agctgtgata tcgcagtgag tggtagagca agcttgcatt tagatatata 2580
 ttaaaaaaaa ttacagactc ccaacaaatg gccgggtggt gtagttggtt atcacgtatc 2640
 gttaacaccg ataaggctgc cggatcgagc ccggcactgg tcattttttt tgggtcccttc 2700
 aataccaccg caaatgctcg ttaacgcctt tcgccgatac attgccttca ggacgaccgc 2760
 ccatgttcga cccaagcgtt ttccccgcaa gtccactcgt atatggccaa cttgaccaag 2820
 cactcccttg cttcaacatg ttctgtccgt accatggtac gtcaagttct caagttgggg 2880
 ctaccggtcg accgccttct agttacattc acgtgatacc atgccagatt aggactagct 2940
 cccatgcttg atcggaagaa aaaaaaagat cttgagctcc gcaagaattc tcaagccaaa 3000
 cctcaaccta tctctcacat caacggccgt gatccgcagt cgtgagccac taaatcttta 3060
 aataatcaac catggccgat gacaccaacg ccggtaagtc acctccattt gacgctggag 3120
 tcaatcctat ggatagagat ccggccgcac agcagaaaact gacaattcta cagcctggcc 3180
 catcgccgat gaggtctctc ctgagcagct cctcgacctc gttcagttct ccaccacta 3240

ccgtcagctg aagaaggggtg ctaacgagta cgtactccgc tcatcctgcc ccgcggtcca 3300
 aagtcttgaa catcactaac gatcttttct tgtttcagga ccacaaaaac cctcaaccgc 3360
 ggtacttcgg agctcgttat cctcgctgcc gacaccaccc cctccccat catcctgcac 3420
 ctgccgctcc tctgtgagga caagaacgta ccctacgtct acgtgcccag caagcttgcc 3480
 ctgggtcgtg cgaccgggtgt ttcccgcgcc gttattgcgg ctagcatcac caccaacgag 3540
 gccagtgatc tgatgcccc aatccgcgcc atcaagggtc aggttgagcg cttgatgatc 3600
 tagatgttat ttgctattga tgggttctcc gggctagagt gggctcctga gatctgaagg 3660
 gcatggagcg acatgggaga tctggtgatg aatgtctgat ccgcggttatg ctctcctctg 3720
 cttttgcctc ctgggccttt tggtaggttg tgggagtagc tagagtcagg ctgcttagtg 3780
 aatcaaggac ttggatgtga ccaacaacat ggtcgggtgc gcagtgcggg atcgttcact 3840
 gtctcggga agttctcttc cactaaatc 3869

<210> 2776
 <211> 954
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2776

gtcaacaaga agctcgatgt tccgctgaac tcgatgatgc tgggtatggt cattgaactc 60
 cttatcggtt tgatctactt tggctcatcg gccgcctaca acgcccttct ctggcgctcg 120
 tgtcattctt ctcaactctca gctatgcctg cccgatecgc gtctcgctgc tctccgctcg 180
 ccgcgaggat atcaagcacg gtagcttcca tctcggagcg ctaggggttat tctgtaatat 240
 tgtagctcta ggtaagttca cccgcgcccg ttaactcctc atttattgat ttcattgcagc 300
 atggaccgtt ctgcgtatcc cctcttcaa tttcccagc tacatgagcg ttactcttga 360
 aactatgaac tacgcctgcg tcgtgttcgt tggcatcatc gtcattctctg ccgtctggta 420
 ctggatctgg ggatacaaga actacgctgg tccgcctacc gatgccattg atccggagcg 480
 tgatcatccc gctgggagta gccctgtgca agtagcaaag gatatccaac gctaggtctg 540
 agttagccgc ttctgcagat gaactgtgga cggtagtgat tgttcaatac gtgtaaataa 600
 ctaacctaca tagatattat atgaatatat ccgtaaaca gaagcaatca gtccaattgg 660
 atataccctc gagagcagtc tagtatcgct gttctgttcc agccaattcc cctttcgtat 720

caagaagaag caattaaatg gggtagaaac gatggctcgt tggatttcaa ccccaactat 780
acgtacgcac actcgaatct ctcaatcatt tgtagttgac ccttcaactcg ccgcgattat 840
caaaagtctg cctgcttgac tgatgaatgt ttgttctccg taacaagctc agatcacgaa 900
aatcatgaat gctacggctt gaaaacatta ttctgcact agagagcata gttt 954

<210> 2777
<211> 853
<212> DNA
<213> *Aspergillus nidulans*

<400> 2777

ctccgcgaca tccaaattcc agaatgtac caaccagcca cgatcagctg tggggaagaa 60
tgccttgag gtaggcagag tcgcaacctc gacgttctc atgtggccga tatggacaaa 120
gccagtaaaa aaaacaattg tcaatggcgt gccatagtcc tccaagaact tccgcacata 180
tctctggaac aggctgctgt taccgagctc tccacaaatc cacgaggcca tgagaaccag 240
cagagctacc atgatactca gatacgcgga cgcctccccg gcgaatcccc actgcctcgt 300
gaggacctgg atccctttct ggaggtagat gaacgcaacg tagaatccaa agatgtcgca 360
cgagaagcga gtcacgtagg tcagggcggt gcaggcattc attatagcga gtatccagt 420
cataataagc gaccatctga atatatcagt gcacgagctt gacgataata aaggaggtaa 480
cttacatccc aatccagcac atgaactcca tgtacggagt tccacgaggc gcgataatgt 540
catagacagt ataattgaag acagtaattg gacctaattg tattagcgac gatccacata 600
attacgtcta gtagactcac cagtaacccc aacaatgacc aaagggttgag ccgcaaaaag 660
cgaaaagaca aaggagccca agactgaggc gaggagaacc tcattgacac cataactctg 720
atgctgtctt tcaaacatat caagtgaaaa cgccagggcc ggcaggatac tgtaccaatc 780
agcacttttc ttgtccagga tgggcgatgg gcaagtaacg ggccatactg gcaaaataca 840
tatagacagt aca 853

<210> 2778
<211> 1052
<212> DNA
<213> *Aspergillus nidulans*

<400> 2778

tctaagtata caagtgaagt tcttcatcga tgcctgacat ccatcatcat attgaggaat 60
caagctctta agccctcagg cactcacttt gccggccacg atgcctcctc cgaacagaat 120
gaacgtctgg atcgagctgg gagaacatca gcaactaatg gaataggtgc gcaccgaaac 180
acttacgaga tccaagaatt ctggaaagcc gagtaatgct tgagttggtg ttcctgatag 240
tagtcttgaa acacaccaaa cgctatatag agagtcagtc accatcggca accgaatagc 300
ccacactcta ctcaccattc gcccatcaa acatagagaa aaagatacac catccccga 360
caacattcaa ccaagccttt gtagctccat cgggaaagtt ggatgcatca ttgatttggt 420
tctcgctggg tgactcgtaa tcaatactgg taacctccgc cggctcgtca acacttctct 480
gttcaccca ttccgcggtc gattcgagaa agctcataat tgaggaagat gaatccacaa 540
gaacctgtct aagagaagta aaaaccaga agggctttgc ctagacgaag gcgttgccct 600
taactctgcc tgtaacgcac gccatgtatc tctgcgagaa gagccgggac ccaatactag 660
catggtttga ttgctttttc tgattttgat ttctcagcca ttgttactg cagtccattt 720
gtcagccagt taatcaaaca tgtctgcgag cggcgtaaa ttcctctggt acagtgggca 780
gccccttggt tgtcattatc tagaaactaa acctgagcca gctagtatac agactgtcct 840
gaactacaaa aatatctgga tgacagcttt tgaaacacaa ttgaaagaga ataaccaatg 900
agaatgacgc aaccaagcac aggtcttctc ttgcaccgcc actctgtata cccttctgga 960
ggcatgcagg tacaccacca aatcgatct cccaccaaag cagccctcag ttccactcta 1020
gaaatctgct agaaacttgc taaaatctgc aa 1052

<210> 2779
<211> 1277
<212> DNA
<213> *Aspergillus nidulans*

<400> 2779

cctatcaagc ccatacccat atacgaatcc agtaatcaat cccaccaat attgcgccat 60
tctcatccct gatttgtttt tacagatctc aaaagccacg atcctccatt ggcatcacag 120
tgctgtgtta ttccagagcc tcatgcgtaa acaagccatt tgcctcacct tggccggcct 180
ccaatccatt cacggctcat caacctccag tgtttaaaag catcagtaac agaatttaat 240
tgctctgcag cgctaaaggt cgcgaaaact tgtattgcct gatatcggcg cggatcatgtt 300

cggggtagt gctctcagag gactgcgcca tctctgccct tgcagtagcg attatgcccc 360
 gttagaacca ttttgggata gacggcaggt gaaaggggtgc cagatagggg tacatacgtc 420
 ggggtgggttc tggagtttgg cagcagatac aaagactgct tacagagcca ccgtacacag 480
 ctatcgggaa ttgagaccag cctcatctga gcatgcgaga cagccccaga agaccagaaa 540
 cgaaatctat tagtcgggaa cggggcccat cccgcataatg tgtgcttgca acagaggcaa 600
 caaaggctta cgctgcgtca tggggatatat ggactataaa ccgaacggta cttgcaaaag 660
 ccatgaactt tgtggctgaa ctatgaaagt ctctctcat catctcatct gctgctctct 720
 atccaatccc tctatgcgca aggactccgt cctggctgtt cttgcgggac cgagctagat 780
 cacgcctgct cgcatctaga agttgaaaca ggtgggcatg agaagagtta gatgaggtct 840
 gtggtctgta ggatagggtca tattaagagg tagagtcata gcagggctat taagtatgaa 900
 acagacgagc ctagacctat gcttgacca caggattcgg tatgaggtaa ctctctagta 960
 caacaacggc acgcgtacgt aatatatctt tctattttct tctacataac ctctattgca 1020
 tcaagcatcg tcagagggac tataaataat tattttccta ggctggtagc tatttttttc 1080
 ctttggtatc tgttgagtct tgctggtatg gcaggatctg ccaccagttt agccgtccga 1140
 tgttaacttc ttttctgttt ctatctgggc tgtaatagag tgctctctaa acttatcgcc 1200
 agtcacggtc cactcgaaga tagtgaagat cgtgcaggac agggcattgg gcacatttta 1260
 gaagacgtta aggttgt 1277

<210> 2780
 <211> 930
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2780
 gggcacaaga cagagtataa ttcacgtgcg ctgcctggag gttgactggg gtttggtacc 60
 agtcgagacc ttgataacag cgcgcgtgag gaggcacat acatagtacc cgccttgggc 120
 ctgacctcc actgaacgtc aacagcatga ctgatacacc tttttccct tccggtggag 180
 ctctcgagc tcctcttacc accacatatt ccgcaccgag tatctcttct atccccgctc 240
 gctcttctta cgctctgtg ctttcaggaa ccgcgcctc atcgccacag gctagcactc 300
 ccttctcgca gttgaactcc acttcgtcct atccccgcc gttccacccc gaaggccgcc 360

cgctcgaggca ctcggccgcc gtggatgcag agatgcagac gaattctccc tggatgttac 420
 ctccgcagga cacgcttcct ccatactccc ggaagttcgc gagcttcccg gcttacgac 480
 ctttcttcca gaatctcagt aacttcgccg agacaccttc ctcttccacg ctttcttate 540
 tccgcaactc ccggtacatc tctcgctcgc aagctgctcg tcgcgccaaa ccgggatctc 600
 aacgagatgc tgctccgctc tcgtccggcc agggcaatth gcccgggata ggccttcat 660
 accgcgggat gacgtatgat attatcgaca gggaacctgt cggcgacgac gatgaccata 720
 ttatgccgct accatccga tggagtgcact cggacaaata cccaggacta gaacttctga 780
 atgatggtht ggaaattcgg tacaatgggc cggtaacaa gcaggatcat gaagccgct 840
 ctgtccgagc ggatcacctt atgccacctt attgaagtaa atattatttc gagatcacia 900
 tacattcgaa acctaaagag ggggtgcgtct 930

<210> 2781
 <211> 1769
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2781

aaaaaaaaaag ggcacatgac agccggtcac cgtaacccc actgcgcggc atgagagatc 60
 ccagttcgat ccagataaat aggccgctth atgctagaat caggccaact acccagaggg 120
 ccaacgcagc gcctgcgctc ccgacactgg cggcaatggc agacggcgta gagaagatag 180
 cagtgccaat catacggtha gttctacaag tccattagga tgtgcttccc tagttcctth 240
 ttgttagacg cttacattaa aaaggctcgtt gataacaggc ctaagtgcg gcgctggcgg 300
 gagaacctgt catattcgtc ccgatcgta tccgggagct cgcgaggaag gaggaccgcg 360
 tgttcgtggc tctctcggc catcgggctg gaatctcgca atgaagactc catttcaata 420
 aattttcatt atcacatagg tggaagatga gaccgtcgtg accgagtaga tgcaggtggc 480
 taaggacaag gatggaggat ggagcaacgg tttgtcgtcg tcagtgttha ctgacagtcc 540
 tagtcacgtg aatcatctgc caggaaactgt acggagtthg aggcctcagg tgttcaggca 600
 ggcaggactg cagccctagc agagaggcat gtgcttgag caagtattga gcattcggac 660
 gtctggctac actggcttaa taaacctthc acctcttht gagcaggcaa ttctcagtgg 720
 tctcgcttga tgctgttgth tcattccac ttctactcgg cagcatgcta tgcgtggthg 780

cgccggcagac atgtgctcta tttgttttgt atgggtgagt ggtcacgtca tgacatacca 840
 tcaatctata tggctctagt agtatcatat atggagctat aagtccaaca aatagagcaa 900
 ggtataaagg aaactgtaag taatgcggat tgcaaccggt atctatgcaa atagggcccg 960
 cgccgcgcgg ccaacagaac gaagccacac cgagactgaa cgcagcctgg actgccgtct 1020
 tcgctgtttg tcttttagta agggcttctc atccacctgt tgcggtcctg cgaccaccgc 1080
 agatcgagcg gtgctgtctt gttccgtctg agcggagtca gtaggagttg gaatagactt 1140
 gatagccttt acagagcgga agctttccgc tgcacttgac gtcgactcac ttacttcgtg 1200
 cacaggagat aggttgggtg gaatgtaa atgagcttggc tcttccactg gctgcagtgt 1260
 tacggcgggc gcatattgtg gcttgcccga ctctgggagc ctgatcgagg cggcagcagg 1320
 tgtcagggga atatttaggg agaggacttc ggccttttgt tcgtctggta gttggagttc 1380
 agaggctccg gtcgatggga gagtcttatg ttcagcaggc tcagactgtt taggcctgtc 1440
 aatattcata gatttgcggg tctctactaa cgctggctga atagcaa atc cttcggcccg 1500
 ctcagcctcg gctgttgggg aattattgtg aataccggta tgattagtct tgagttgagg 1560
 caaattgtag tctgcaacct tttgaggctt ttcaggatta acggcttgcg gtagctcatc 1620
 aacaatcgct tggttgcctg atgcatcagg atcagaattc tctgttcgag acaggtcatc 1680
 cctacgctct tcaaatttgt catggcgagc gggctccgcg ttctcggctt cgtagcga 1740
 ccagcgatgc tcaagcccg gatcgatcg 1769

<210> 2782
 <211> 1381
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2782

tccacagtca ggcacaatta ctggcgctcct gatattgaac ctcaaggcaa ccatggagtt 60
 gttacgactg tacatggaag cccgagcagc agtcaggaga accttaaccc caagcaaat 120
 tcgctttcag ggggtcaatgt acaaaaatca ttcctagtga cgacaactaa cgagtcctag 180
 attagaatatt ataatggagc ggaatgatat tttcacaact tagaaattcg gaatcaatcc 240
 ggtagacctg ggccgcttag gtagaattaa gaagtcctgt ggtggaatatt ggataccttt 300
 tggggggccga gtcagtagtc ttctggaatt caataaatga atatcctccc aaggttcttg 360

cctgctttga ggctctggga tgaaaacgaa ggtttgggct ctaaggcttg acagcctggc 420
gaaacaaaat tccgtaatct tggcggcacg tggcgctgac caatcaacgg cggcagcagc 480
tccgcccagc ggcgaacctc ctccatcaaa tttatgcagt gaggtggctt cttcgctgat 540
tcccattctg tcgcgcggat tgcgggtttt tgagggcttg gagactaatg aacatcttct 600
cgtcattttt ccgtcgtttt ttctttctcg tttgaaattg atccccgtca ggcccagcgc 660
gctggccggt cgatttccat tatgtgagta tctgccagct acagtgccgc gtcgtttcac 720
taacagagtc caaatctagg gcgagactcg tgaatgatcc tcagattaaa tttcctcgc 780
tgcataatcc catatctacg cagcttcaca cctacgtgtg gccgttcttg atcatctggc 840
ccaccttctt cgctttctac ctctcgcccg aacgttacga cacgtatata caaggacagg 900
aatggacttt tgtgtattct ggaacaatca tcacgcttca gtcgcttctt tggttgatga 960
caaaatggaa tactaacatc cgatcgaga taacgacaac taatgatcgg ctactgatt 1020
ctgtaccatc ctattcatgg taaaatcggt agacaacttt gccaaagact agatatcttc 1080
tctaaataaa gatacttaaa atatatcaaa aatcctacct taatttatta attacaacat 1140
caaataatca aatacatctt taacatatcc tatactaact aataaataat ataatatcta 1200
ttttactact aataattaca gaaatatatt catgttttac atatcaacaa aatattacct 1260
cctatataaa aattaaaata ttaaataaaa aatataactc tctaacatta ttctattcaa 1320
actaacactt caatcacctt acactcatct tcctataata ttaatcatat aaactattaa 1380
c 1381

<210> 2783
<211> 4897
<212> DNA
<213> Aspergillus nidulans
<400> 2783

atcggatttc aggggatcaa ggcttacctt cttccagacg gcgacgacgt tgataatgcg 60
caagcacgca gcgatgagag gaacttttcc tcgaaatact acgcttctcc tgcacggcag 120
ctttcttttg tggatcagag gcgatcgtgg atgtcactgt ttgatccaaa ctatgaacag 180
acttcggaca tgcgcgtaat gacattgaga atgactctga caacaccaga acgtagggcc 240
gacacctgcc ttgcggagac cggtagcaag gaatcaacca agcccatata cttgcctca 300

actcaatacg ggagaccagt cggtgataaa atatgacaaa agttccgtag gcggaaggat 360
 tgagacgatac tggagtacac atacatactc gaaatggact agccttactg aatctccagt 420
 cgtcagcagc gtcaatggta attgtagtgt tgttatggaa ggtccccctg gaagtgtttt 480
 agggactaaa gctggcgttg aaaccaagtt tcagagtatc actggattttt cttctaagtg 540
 gtgctgcgga tgattcgta ggactctcga tacggaagta aaatgacacg tgactattga 600
 gctctcaagg ccaccttctc gaaatgcat aagccgagca attgctcatc aacattccca 660
 tccttttagtt cactgttttt tatagcgtat acatccttct tcaacttata ttattctctt 720
 ctgcatatat cgcccgctcc aacctcattg ttaaaatttc tctgagctt gatagttcca 780
 aggcaaggta tctggcgga tcttgctggc cgtgagcttc cgattccttg ctgtttaatg 840
 ttactgttc gctggcatg atacccgat ggattcagct ggtgggctgc ctattactgg 900
 cgctcatggt gccgcgagc gctgcgaaga aagacaaacc cggcatatct ttccataaac 960
 tccacgagaa gccgtattct atgttctatt tcgagaagtc tgatactgtt ttgttaaatt 1020
 tggaggacgg agaagttcta cgttcgtttg acgctggcga aaactgggaa gtgattgagg 1080
 acaatggcat gaagcacgga gtgacttcca tccaccagca tcctttcgac gaggataaag 1140
 cttacgcgct gggagatgac gggaaacact ggataaccac ggataaagca aaaacatgga 1200
 agtcttttaa ggttccagac caggcatatt tcaaaagtcc acaaacgggc cctctaactg 1260
 tccacggacg ggattccagc aaagtcattt tcgaaacaag accgtgccct tcatgtgcgc 1320
 cacgatcata ctatacaaca gacgacttcg atacaataga agtgctgaca gaaagcgcag 1380
 gggcgtgcta ctgggcagat ggaaattctc aattcgagc aggtcccagt atgccaacag 1440
 gcatggaaga gcgcactgct tgtgtagatc aaggactcaa ggcgtcgaca aggattgcct 1500
 ttcgattggt ctactctgac gactacttcc gcagccaagg ttatttagac gaaacttcag 1560
 gatggccgac cagtatctgg tgtgaccagt atcgcgcaag tcaagagctt catcgtcgcg 1620
 gctgtcgaat ctcaaggaa cactgagcgt gctctatatg taacaacaga tattgaaaag 1680
 tggcatcggg cggaattcgg agaccatagg ctggaacaag acgcgtacac tgtgctggag 1740
 agcagtgatt atagccttca ggttgacgtt ctaacaaatc cgttcagcgg catgggtgta 1800
 cttttcactt ctaactcgga tggcacctat ttactcgca acattgaaca cactaatcgc 1860
 ggccaaggg gctacgttga tttcgagaaa ttagctgcta tccaagggat agtattggta 1920

aatactgtca gaaatccgga cgatgtcgag gccggtgcat ccaaagaggt tgtcagtcag 1980
ataagcttcg atgacggaag gacttttcag cctctaaaat caactgatgg gcagcgaatc 2040
catctccatt cagttaattc ggacacaaac cttggacgag ttttttccag tcccgccctt 2100
ggattggtaa tgggagtggg aataccggtg attacctcgg taagcgctca gatgggcatt 2160
tgtatgtcag cgatgatgca ggccttactt ggcgcttgc tcttaaaggg ccgcacaagt 2220
atgaatttgg tgatcaaggg gcagtgctag tggcaattag cgaagcacc aaagttaaaa 2280
agattgaata ctctcttgac catggaaaag agtggaaagtc agtcgatctt cctcatgagg 2340
tcgatggtga aacatctact ctaaccacga cccctgattc aacgagcttg aagttcatcc 2400
tacttgggca ctcgaaagga gaacctctg tttatgcaat tgactttgag gatttgcatt 2460
aacgaaaatg cgaagatgaa gactttgata accattggcc tgctcgattg gatgaacatg 2520
gagaaccaga ttgctgatg ggccagaaac aatttttcag acgcaggaag gctaattgctg 2580
actgcttcgt tgcggagcat tcaacagttc tatgtcgaaa ttcgagccgt gcaaattgtac 2640
tgttgaggac ttcgagtgcc agtctacacg gactgaggat ggcaaagact gtgttccacc 2700
gaagtctttt accccccag atggagtctg tataaaccca gatgatacga ccatgattcc 2760
gtcgggctgg aggttgattc ccggcgacgt ttgtgttcgc gatgatgggg ttaacctcga 2820
caaagatgtt gaaataccct gcaaagatgt caacaatagg ccgaagagca aagaaattac 2880
ctctaccatg aagatgttca gtcgggctt gtccgcttac aggtacctcg aacgtcaagt 2940
gtcgaatctt ggggaagatg agacggtcct gatgctcagc cgcaatcagg aattattcgt 3000
gtctcatgac catggccaaa cctggcagca agaactaaaa ggggccagca ttatgaaaat 3060
cgtccctcac ccttacaaca gtgataccgc ctatatactt actgacagcg aggaggtgtt 3120
ttacaccata aaccgaggcg cgacgtttgg gtctttttaga gcgaagacgc ttccggacta 3180
cgaaaatggt ccaattctga ggttccatcc tttaaagaga gactgggttac tctgggttgg 3240
tacagaatgc gactctggca gctgccactc caacgcctat tttagtgatg atcgagggga 3300
ctcttggaa accattttgc gccatgcaa aaaatgagag ttcgagtata aggaaaatcg 3360
tccagacagc ttgtacctcg tattctgcga gcaatatgaa aatgaggacg acaagaaacg 3420
gctgcaattg atgtctacaa ctgacgagag gttctccgac tgggaaactg ttgaagaaaa 3480
tcttgtggaa tatgccacca gggctgaata catcatactt gcttcccaca cagataaaga 3540

tggggcttgg aaggctaggg ttagtgtcga cggtaacaaca tttgccgac tgaagtttcc 3600
 gccaatgtc gtgccagctc aaaatctata cacccttggt gacgcctctg agcacgccat 3660
 cttcctgtat gtcggaggga gtaataatac cggctcattg ataaaaagta acagcaacgg 3720
 cacaacatat gtccttagtt tggatgccgt gaaccaaac gactggggat atgttgattt 3780
 cgagagaatg caggctttgg aggggtgcat aattgcgaat attgtcagca atgttgacga 3840
 gctttccgac ggagcaccca agaggctgag gacaatgatc actcacaatg atgggtggtga 3900
 gtggacatta ttagcacccg caaccaagga cgccaatggc aagaagttcc cctgttctgt 3960
 tgttgagggg aaaggcactg aagattgtgc gcttcacctt cacggataca ccgagcgcg 4020
 agatccgga gatacat ttt cctccggtt cgcgattggc ttgatgatgg gcttgggcaa 4080
 cgtgggggat cggctaacca gcaaagatga agcagacacc ttctgacca tggacgggtg 4140
 gatcacctgg aagtccgtca agaaaggtag atatatgtgg gaatatggcg actcagggtc 4200
 cgtaattgtg atcgtatctg aacagaagtc aacaaaagtc ctgcattaca gcaccgacga 4260
 gggcgccacc tggcaggact attat ttttgc ggatgaggaa attgagggtta ttgatattct 4320
 cactgtaccc tcagatacct caaagaaatt cattctatgg ggcaaaaaat cggacgagct 4380
 tgttaccgtc aatgtcgact tcagcgggct ttatgatagg gactgtgaat tcgacgacaa 4440
 ggggtgggat gtcagtgcag attatcagct ctggaccccg aagcatccat tccaggagga 4500
 aaattgtttg ttcgggcatg ttgagcaata tcgtcgcaag aaaccttcag ctgaatgttg 4560
 gaataattgg cggggaccgc atctgcacag tatccaaaga aattgcactt gcaactacagc 4620
 tgattacgaa tgggtcgtct acattctaatt gatgtttctt ttcttaccat gctaattgga 4680
 tagtgactat aactacgaac gtcaaaatga cggcacatgc aagcttgtgc ctggtttgaa 4740
 accacatgat ccagttggct attgcaaagc ccatccagat gcgatcgagt attgtgagcc 4800
 tactggatac cgtcgcattc ccccgacccc gtgtcaaggt ggctataact tggaaatcaa 4860
 aaccgcaaag ccttgccctg ggaagcaaca agagtcg 4897

<210> 2784
 <211> 1325
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2784

ttgttaatcc acatgagagc gctccaatgc agtggcattt gacttgtgag ccatctgcgc 60
 cgggtcaggg gtacaccgac agttccttga tgtttccgcg ttccacattg atatacagag 120
 ctaggcggct ttcgggtccg tccgctgagc cagcgtcatt gccagactct ttagggagac 180
 gctgcgaagg cgacgagata aatctgcaag aatcacatta ttatcacagc tgctcagagt 240
 tgattctttt tactgaccaa tgtatgaagc aagcaatact tgacgcagtt ggtgatacct 300
 gcaagcctca tccgcattcc cactttttct ctttttcatt tcttttccgg tgtggatctg 360
 gtgttagagc cccgaagcct tgaccatcac ggaaggacca gcacgagcta tctcgcaatg 420
 agtaaataaa cgtcaatgag atccagagag tgccgtgagt gggacttggc acagttcata 480
 tcttccaact tgggggtgtga tccttggagc gttctcgacc tatggatttc tctgtcttct 540
 tcagacgatg gggctagcag atgaagaatg tctgctcaga aaacagtaat gatccctcgg 600
 atccaggtac cggcgctacc tcgaccccca aggctcactt gtacctgggc tgccaggcgg 660
 gagccgcgcc actgacagtg gccgggcatg acggcgggaa gagtcgaggc gctaaaacag 720
 cgacaactga caggttcaac tccggtggca cagcaacagc gttgccgccg ttggattgga 780
 agccatctgg gaggataaat tctatagggg atcgctgaat cttccagaat gccgcccggc 840
 ttggaagaga acgccttgcg gggttgtgca agagtctctt gacacgtgac cgaaggggca 900
 ctttttgta agtcgaccct tttctttctc accattccca gctaactgtc cagggtgcca 960
 gcttgtcatt ttgccgatg ctttaacgatg ttcagaccac tatttccatg aaagatctcg 1020
 aagggaactt atcctcttat ggattggctt cctcgcccg tctgacactt ttgcatgttg 1080
 cgaaggggga gtcattttta accccaaccg ttcttaaaag gtctgggtta gggaagcctc 1140
 tctttcttta tcatcccgac catctttctt gccctgtgcc aatacatctg cctgtttctc 1200
 agtccttaat ctactacctt acttcatctc ttggcgtaaa tatcttcagg ccttttcagg 1260
 acctctcact aaaccacatt ccttacttat catccttctt tctatctcc ccctctatt 1320
 tcccc 1325

<210> 2785
 <211> 1096
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2785

gtaaccacaa ttgcgtgaga tgacgacttg gccagcttcg gttacccatg tacaacgagg 60
 gaaacaaatg ccgaagcgcg gataccacca cccgaggggc gaacaggaac aacgtacctt 120
 tcccacagcg gcctccccga gaagtaccag tttgacgctg ctgctcgggtt ttggcgcat 180
 tgcgggcggtt gattcagaca ttgtggacga agcccaacga agagacgggtt atatcgatca 240
 ggtcgtcttg cagcaaccgc tgggttatca atcgtagata cgagtcgggtg acttcagata 300
 caggaaaagc aatccgcagc ctagacacaa aaataaaata agaaacagggt tagagctgct 360
 ggtctgtatt cagtgcctcg gatcaagcag gggttgtttg acaggcagca gacaaatgga 420
 gaggcgcaga gcacacacca gtacctggat aggtggaaag agcgggtggac tgatggagat 480
 atgacagtct gctctgcaga attttagatg ccttgcaaca taggtaaggc agacagacta 540
 gatcttgaga gctcgtggtt tgttggttct ccgacagcag gtctcgtttc gtcagagagt 600
 cggtcgatgc gattacatta gcaccgccag tccaaccgtc gtaatcaggc ggagacgtgg 660
 acagctagtg acgctaagcc tattcaaata tagcgcat 720
 ggggactcta gcagggatcc agttagtagt tcttgcgagt cccagcggca acaaagaac 780
 cggttgatca agaaaaagtc cctcattctc atgctctcgg cttattgttt gcttgcatgc 840
 cattgacaga tctattgggtt tgactgtcgc ttgcatcaaa aagtaaaaca gactgtgcct 900
 gcgcaaagta ctcggcctgg accgaccact ccatgtctcc aggacagcgc aatcgcaggg 960
 aatcagagta tcgtccaggc tccgataaac gagagaatgc aaagcaatct tagacaccgc 1020
 tttagtcaat gacgagtcct aatagaaagt atcgtgtgtg acaccaatg cagtctaatt 1080
 tgattgggcc cagcca 1096

<210> 2786
 <211> 3238
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2786

gttgttgaca ataatagata caggcttgct gatggggcag aggccaatgc ctgtgattag 60
 ggagctgggt tcattgctgt tactgacagt attaattgtgc tggttatctg cattgtgatt 120
 atcagtagtc tcaataatag gcttctgctg attttggatca ccattgctgt tgtggctcgt 180
 gtccgcgtcg ctgtctgtgt cctggctggt gttgctgttg gtatcagtggt tgttgttgtt 240

gttgttgttg ttgttgttgt gggagttgtt ggtgtctgct gtgggctttg tgatcacaag 300
 ctcatccaca ctgtccaagg gagcagggcg ctgaggcaga gccgtcatca ggctggcctg 360
 cagcacacgc tcccgtcctt gttactgatt gcggtggtgt ctctctcttg actttgcatt 420
 gacaatgggtt ggtgtcaggc cgggggggct cggagggctc gtgaggtcgg tcgagcagcg 480
 gcgaatcagg gtctgggggg cagagatagc catttcggtg caacaagggtt ggtgggagga 540
 caaaggatgat ggttggagag gtgattgagc agccaaaagg gaggatagtg caaggtagat 600
 gatcagagaa gattgagcaa gcagtgcgat caatgggagc ctgtaatgca agcaagcaac 660
 aacagcgata gaacaagtaa tgtgcaagat aagagtaata ggcagagggga ataagtaaca 720
 cagcaagaga gaagagcaag aggaaaggaa aagagcaagc atgaaggag attatgtaat 780
 atatattgta gtaaataag caagctgtgt tataatgcaa tactgaagcc acaccatagc 840
 aacaccacaca tccttagcaa cagtattgta ataagcttat ttactacaca actaacaagc 900
 tgtgtacgcg ccagcgagga tgagcaatat acaatacttc tgatcatgca aagggtggttc 960
 ctgacgggtgc aagagcacao tgctaacatc aatgctaccg tacaacaacg cgacgacggc 1020
 aaagtgacaa caacatgaca ataacagagc tctgactccg gacaaacatg ctgcaaaata 1080
 tggacagcat tgcattgctg tcagctactg gctgattaaa ctgcagaggt tctgcttattc 1140
 aatgatgtga catattgtca tgctcgccgg cgtgacatga tcacaatgct ggcaacatga 1200
 agagaagatt ataattatca aggcataagc cggtcggcag cattgtacgt acgtcataaa 1260
 tacttgcata aactggcatc agcagattca gaatgttgtg cacaatgctg ggggagcgcc 1320
 ggggtgacgc cggcgtgttg tgaacaaggc atggctgagg gttgtcacag ttgcaacatg 1380
 cagacaggag gtattggcca gcagatcagc atcttattta gcttagggta taatatgcaa 1440
 gcagacaatg ccggctcaga caagctttgt acaagtatta tgagattagg cattgatgat 1500
 caatgctaag atgccggcgt cagatcgatc cagtgcagat cctgccccac caaccatcag 1560
 cctgcaacat gaacagctga agtacatctg ttacagtagg gccagttgca cagtcaggcc 1620
 atcacacagt ccagcagttg caggccatgg gcgtcgcgct gccacagtaa tagagatgcc 1680
 aaaggatgaca gatgcatgct gcacaaggat acacacatca ccaccaaca ttgccagggtt 1740
 agtaaagcca tccttgatc atcatgaata ctgtacacca ttatcaggag acttcgacgc 1800
 aatattaggg attatattaa tgcaaaggga gttgcgctgc tacagagagg taggtgacca 1860

gttattgcc a gctggcaagt agttgtagta tgatcggccg cacaatgata cactctgata 1920
 ttgatcagga ccagccaccc tgccatcett ctgctagcca gagcactagt ataataacag 1980
 caccatatta tcatgatagc agagcccaca cagtgaatag aggctgatac aaagtagata 2040
 taactgctgc agtacacgcc cagcccgtgc agagctagtg ttgacaagg tcccagctgg 2100
 cgcagcgccg atacagcgcc ctccaggaac ccatctaaag ccggccagaa cttgtaggaa 2160
 ctggtaccaa ggccgctgga gccggccagg ccagtaactg atagaggccc tccagaggct 2220
 gctgcagcgc gctgccagca caggccgggg aagggccggg ttcagcccat cagtgcgcc 2280
 aaatatatat accgcccata gcacgagcga acacctgcaa ggggccacag caaacgtca 2340
 gcaccatac agggccggga tcaagctaga gccagtacca gcacgaagac caagaaggca 2400
 tgtcaccagc gcagcgccg ggaccaggag ggccagcaa ttatcaaat caagtcaggg 2460
 ggtgccagca aggattcagt atcaagccag catggagcta gacatgtgcc aggaacaagc 2520
 ttgaggaaag cccgcacagg gctggtagca agtcagcaca tgcccatagc cagcgtggcg 2580
 ccggggagga gcaagggggg aggcagcaaa gtcatgcccg aggcgctacg ccagggcatt 2640
 gggggctccg cgcccgggga gagccgcag aggcatactg acaggtcatt gcaatgcaag 2700
 aaaagtgcc a gcgccagcac agagcacgta cactgccagg acatactagt aatatcacca 2760
 agccagagca ctgccaggat catgctgaca acctgccagc atagcaccag tacagaaccc 2820
 aagaaggcac atcacctata caaccaggg gagtgcaagg gaaatactat ggcatataga 2880
 ataccagcac agtatcaggg agaagctggg attagaacag aacagggtca gggccggtgc 2940
 aacgccagct accagcagaa gggcagagca ccagcatcac accagggaag tacatcgata 3000
 ccaacgcctc tattgtatcc acaaattggg ctactatata acttatgagg aggtctctga 3060
 cttaatccca ccactcgtca gacagctgtg gcaattcctc tcaccactga gtccctaagtt 3120
 tcatgtggac gccgttcgct gtttatggaa tctgcactca gtccagttat ccggggacct 3180
 gctccatact tgacagtctc aatgtcggct tctggcacca tcagagccgt ccccgata 3238

<210> 2787
 <211> 2151
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2787

cgaattaacc ttactaaagg gatcactgtg actatgttgt gcaggtgtct ccactgcggc 60
cgaatctacc tctggtactt ccgtgtatct cggagcaccc cgtgcgatca ttaacaccat 120
tttcgaatgc ttgagcaatg cgatagcctg agagccgaag acactatgaa gacacttgat 180
tcttgattga tacgtccatt ttcaggaaca gcaaagccgg ggctttttatt tatcgaaatg 240
ggcatatcaa attcgaccga gaaaatttga gactaaccac tataggaaaa ctaaggcggt 300
cttgccggagg acgcggacga actgataagt gttcatagtg ctctagcgaa ctcaagtgcct 360
cgtctcgtct cgtgatcaag gggtcgaaca tcacctgact gactacagag atgacatata 420
taaaggatac atgggggtca aacttgcgga taaacttaca taaactctgg ggtcgaggct 480
tgaccggcga agagttggac cattttctcg ggcaagggg agatccggag gcaagttcac 540
attccacccg gcaattcgac gttttcaacc tggaccgccc gaaaggtggg gtgttaagcc 600
gcgggctgaa gatcctcggg gttacgtata taccctgaac tttagatcac aggagcagtt 660
tccacatgaa gcatttttga agagcaggtg tcttgactgc ctgtaggagc tgtagcaatt 720
agtgttttagc aacaagagtg ggtgagtttt gagtgtgttg actagacagg gctcttcagc 780
acgattgcct gatccgcagc acgggtccgt cgggactctg gagccccca cacgtgacca 840
cccgtctgg tctttggctc tccgcaagac caaaagagtc attgctgttc gactttacca 900
aatccatta gttcaccat ttctcagcca ggactcagga atgacttttt ttatctgagc 960
agccgactcg actcattttt catcctcccg gtgttgacag tgccttctc tgccatcacc 1020
tgcaagttgt gtcgccgtg ctaaatacgt cggcgacaac ctccgtagta gtagttccag 1080
agctctccga atccgacctt acgatccttg cagtcataag ctcccgctgc ctctgtccag 1140
attctcactc ctgcaaactt cattatatct tcattttctc cgcttctact cgatttatat 1200
cgcgcaagct gggatattga gtgtggcgac cacttgagca gattcacttt cggcaaaaat 1260
gtggaagccg tcggagcgcc tgatggacac catcaggcat tacgccagct ttccagcaac 1320
tggtgtttcg ctccgacaga tggttcagtt tggagacaga cttcaactg gtgagcacac 1380
ttgattcctg agaataattt tatcagtttc cttgtactgc tcacagtggc taaccttacg 1440
ctttccccga tataggaact ctgtttcgcg cctcccaatt tctgtcagaa gaactcccaa 1500
tccgcctagc gcaccgtgtc caggatcttg gagagcttcc cgatggactc agtgaaatgc 1560
cctccatcaa gaagggtccag gattggtatg cacagtcgtt cgaggtatga ctcaccaacc 1620

atcatgcttg cggttcatcc tgacacatga tctgaaggaa ataattaacc tgccccgacc 1680
aactctcacc caagaagtaa aggcgcgcct gctgcgcccg aacagaacga tgaccggcgg 1740
gtcgaagatt ctgcgcgaaa caacacaaaa tccaagtgtc cgcgaggagc agtatcgctc 1800
cgctatgaca aacggtaatg gaaatggcaa ggctgctgct gctgcacgaa gatattttgt 1860
cccttcggat gaccagggaa actggcctcc cgagttaa at gattacaacg aacggtttgc 1920
aaagactcta caacaaatta agcggcgaca cgacagtgtt gtgactacag tggcccaagg 1980
tattctggaa tggaaacgaa agcggcagta cctgcaa atc gactcgacaa tccaatcatt 2040
tctcgatcgc ttctacatgt ctgcgatagg tatacgaatg ttaattggcc aacacattgc 2100
tctcacggaa caaacgcacg tgcgccatcc gaattatgtc gggatcatat g 2151

<210> 2788
<211> 605
<212> DNA
<213> *Aspergillus nidulans*

<400> 2788

aatgctgagg agagccttgt gtagtcgcta gattaacgat agcagtacaa ttagcacgct 60
tctggattgt tttgtgcct cactttccct gactcttgct tggaaagaca cttgagacag 120
caaattgtgc caatacggca cacttttagga tagaactaag tctcattctt gttgaagctt 180
gggcaaaatt agacacgttc ggctctcagt cagtcaatgc ctggcttgctc tggagacgaa 240
attgtagcgt aggaatttca atgtactctc aaggccgttt tatagaggta ctctccatgg 300
gggtgcaagg aaacatttcc ctattgactg cggacaaagt aaacacggat tttgtggcgt 360
tacgcctagc cttgcataat ccgtgcataa cctgtcagat aaagcagcgg ccttccttta 420
tcgcattgca tgaccacgcc gccatacaag caattagtcg ttctgcgccc tacaatgcgt 480
tcattctctt tggaaatgac aacggtttag gatccccaa g tccgcatggc cctctccact 540
cgcataacca atgaggcagt aaagggccga caattgttgt gaaaagccac accgtctggc 600
agtcc 605

<210> 2789
<211> 1642
<212> DNA
<213> *Aspergillus nidulans*

<223> unsure at all n locations
<400> 2789

```

ccaggataat ggggtatcca aaaactaaaa tgggtccactc ctgtaggaaa ataagaatgg   60
ataaaccaga ataaatccta aaaaggaggt tgcaaacacg cgcaccagaa gtggacagtc  120
attattgggg cgttttctat aagccgtccc tgacgcatgc atcttaaaaa ggaatagtag  180
tgcataaggt aaaaccaagc cgccgtaaac tagattgtaa ggctttgttt aagcgacgtc  240
agtcgctggt caataccaat gaatcgccat tttgaaaact tcgcgaaacc aaaccaagt  300
ctttcgagcc aaagagctag tcctccacaa cgccgaaact cccacgatc tgaacgattg  360
cccaacctcg ttgtttaagg tcatccaacc accgcacaac tccgaggggg tcaaaagagc  420
tgacgttagc aatgtgatac tcaacacgct ggccgcttct ggtttggacg agaagacttc  480
taccgggctt gtcggacggc atgtgaagcc cgcagaacct gggcgtttgc gtgaccgaa  540
caagagaacc atctacaaca cattctccta ggcgctcagt caaccagaca gtcgctcgt  600
tccttgccaa tgctgcatat cgttctcggt cgttttgaag actttgttgc aggtctgatg  660
cccattttgc caattgaatt cgggcacgct tctcctcgtg tctagaatga tctgacacct  720
gagccatcgc ataactaggt tctataccat acgactgga tgcaaatgat aaagcctcgt  780
cttgtagagg gtttcttcgg cgggacaaga tatccctttg ccgttggtgca agcttcttgg  840
cagcagagtg ccgaatccag gccatggtct cgcgatcgaa gaggctctgg actaaagctg  900
taaggtcaga ggcaactagt ggttgcatat agtccggatt catcagcgtg ctagcatcca  960
tgatggaatc atcatttgac ttggcggacg aaactgcgaa aggttggttca tctatatccg 1020
aagcattaag gtgaaaagtc cttaaagaag cagcctgagc tttctcgtaa aaggagtttc 1080
tgagattaat gatttgatga cgggtcagta agtctgactt ggctatgagg ggtataacgt 1140
tgggtccaggt gctgagtttg ctgatgcact cgacatcaga atgaagctta tctatgtaca 1200
tgtcagtgaa agtcagctta ctactgcc aaaaacatacc gtgcgatatg aggtatagga 1260
cagcgtccac ctgtgaccct ccattaccag ctaacatggt ctggaaatcg gcatttggtg 1320
attcgagggc tgacacagca cgagagagct gttgactgat atatttaata acggtgtcaa 1380
tttgtccagc ttggctcaat cggtgccctt ggacatcgac gaagcaaata ttgcgctcaa 1440
ggacgacttc gcctgagctc tttcgccctt gaagaacacg agagtcttct aggtctgacc 1500
accaagtagg ataaggcttt gaactagcat atatttcaga aacgagcgca ggtacctggg 1560

```

ttaattgagt cgaagtgtgc gacgttcggc cgcggcgtga aagcgacagg antgtggaag 1620
gttcatcaaa aggatcaaca tg 1642

<210> 2790
<211> 1017
<212> DNA
<213> Aspergillus nidulans

<400> 2790

gcccgattta tctccaatca aaaagcaggg aactgaagcg tgcgatgttc gtattcctta 60
ggctgacgct ggctagccct aactcgaaca gtgccgccgc gccccgggca ccttgcagcg 120
tcaatctgcc ttgcgccttg tgccccgaat gatgttaggc attcagtcac tccttcctcg 180
gattacacca gtacaggtag tcgcttatct ggcgtcaggg ggaagaagtg gccgacgcat 240
tggtcctatt ttctgtgctg ttacacttgg tagttatggc tgattccact gctgctatgg 300
cgacttcaac gctgaagaag aagcatgcct ctatttctct acaccaagag aatatgaatg 360
tggatcggat ggaaaggggtg aaggaagagt aagtcctgtg gattcgtgat ttcgctctgt 420
atattgacgc tacagaccac atctaagtac taccattacc aagcaatccg cgatatcgat 480
gtccacaaag acatccagga caggagtata tgagaccgaa gaaccaggt ccaatgctct 540
tgacaagaat agcgatactc ggatggctac catagaatcc ctctggctg agaatgatgt 600
cctccaaacc cagatcacgc agctaaaaac cgcccttcat gacgccaga accatatatt 660
tagtctgcaa ccacacatcc aaacccttcc aaatgccgat gcgatcacat tattccaatc 720
cctcgtctcc tctgtcgaga actgggtgga caactatctc gcggatagtc tcgaggagaa 780
ggaagtggcc gccgacgct tgaatatcaa tgatatccga aatctgatga atttaatccc 840
tccagagggga atggcggcgt tcaataccgg gaatacagac gtggatatca atccagcgg 900
gatattgaaa gttctgggtg agagtatctt caaccaagaa ttttccaccg ccgttcccaa 960
ggcctgagat ggagtttggg atggaaggtg agagagcaat gcgggggttg agcccaa 1017

<210> 2791
<211> 5070
<212> DNA
<213> Aspergillus nidulans

<400> 2791

agacttacaa gcttttcaaa gagtggatat ttgcagcctt agaattagga taaatagga 60
 agtataacaa caaaaaaat tgattcccag ctccataagc gcottgcttg caagcgacat 120
 aaaaacgaga tctacgatat aaggctataa atctatttcc accaataaaa cgagcttttg 180
 ttggacatag actgtatgcc agtgaaaacg aagatatagg tatgacatac catctaacga 240
 aaattgcgag actcgataga ggtttaattg tggaggcca gccatggacc gcgggcagaa 300
 aaacaccggc cacttgatca atcctcaaac ttgaatgact tgccgccaga gatgtcaata 360
 gggccaccgc ggtacgagcc acgcttcttc ttgttcttct ccttggtgaa gcccttgcca 420
 cgtgtgaccg aaagatcctt gtaagccttt tccgcgtacg cgtacggcac gtactgattg 480
 gaggggtggt tatgagggag ttcgctgaga gcggctagag gtgtaggacg ggtgccggtg 540
 tggtttttct tgccgttacc attgccattt ctgggagctg ggctggcact ggaggagact 600
 gaggcttccg atgtagcggc gggcttttgg gtggcttcag cctccgagtt ctggaggggtg 660
 cggctggtgc tggaggactc ttctccagag gacgacgagg agtccgagga gccgctggag 720
 cttgagtcgg agggcggcag ggggtgtctcg gtggcagcct tgagagcctt cttgtcggct 780
 ttcttggcgg cgtccgattc ggattcagac gaagaatcag acgaagaatc agatgaggaa 840
 tcagatgagg aatccgagga ggaatccgag gaatcgaag aagagcttga agaggagctg 900
 tgagaagcat cggactcgga ctggactcg gactcgaac ttgacgaaga gtctgagtct 960
 gaatcagagt ctgagctgga atcggatgag ctctcactac tagatgaaga ggactcttca 1020
 gccttcgatg tcaacttggg tttcttcgcc tttggagttt cttcggagtc agagccagag 1080
 gaagaagcgc tcgattccgc tttgcgctta acgcccctcg cggcagggcc gggagcgagg 1140
 gctgcctcat cctcgtcctc atcatcagcg tcaactatcg aggagctcga agatgaggaa 1200
 gaagaggaag acgacgaaga ggccgaggag gaagaggagg acgaggacgt tgacaggag 1260
 ctctgcgct gaaccttcgg tgcttcagac atctccacat cagagtcgga cgaatcagag 1320
 tcagaggaac tgtcggcatc actgtcactg cttgctgagc tgctagaact tggaacattc 1380
 ttgcggttca gttgagactc ccaactctgg aagatctcta aaagagaagg aacatcggac 1440
 tttttgcttg cactaatcga cttttttgcc agctcttttg taaaggcggc gctcgtggag 1500
 gaaaacccat gttcggatag gaaagctgaa atcgccgaga tcagattcgc aggcagtata 1560
 gtatctttcg tggccttcgc ctgcttcgtt agggagttgt cagtcgtccg acgcagatac 1620

taagttcacc tagatgaccg cataccttct tttccccctt cacagagctc tttttactgt 1680
 gagcagccat tttagggagc tgatgagcgc tgtgcaggtc aattcgctct taagcctctg 1740
 tggatagaga aagttgataa agaaaaaaaaa tggcagaaaa aaaaaaaatt cacagcacta 1800
 gggcgggtctc tcaggggaata gtgtattatt ggctgaagct ttatctgaaa tctcaagtca 1860
 cctgatacga agaacgaact tactaagcga ccgttgaagg actcgatttg aactatctac 1920
 ttttcttgaa ttgtgtgtaa tagagagaat ttatggcaag atattataac ccattcttct 1980
 atgatatctt gaaatacagg tttgattcag gttcggcttt agatacaatg aatacgttct 2040
 cattacatgg taatacctca gtgcaacttg agtacatggg gaagggttgag ctcttatgta 2100
 cgggtgctgtt acagccacga gctccgccgc ccgtccatc cccatcgata atgagctaata 2160
 aattgaccgg ctggagtcgc tccttcgctt tgcacgggca tcgtctgata tgcaatcctg 2220
 accccgctaa agcctctaag actgtgatct tagctggaat aggattcaaa cttgattgcc 2280
 tccatccgcc ctgcgtgctc cgcctacgtt tcttcggctt ctgatcatg ttcacctggc 2340
 ttgaataacc tcctgagtaa gcaggctgtt ggcagttcga actataagca tgaatgggtca 2400
 tgatcgcccc aggggacctc taggagatcc tgtacctcaa agagatcctc gccggcgccgc 2460
 tgagagtcgc gctggtgggc atgggggggc cggtgacgga gcgtaaggg ccgagaaatt 2520
 cgaggacgaa aagcggagga ttgttcaaag ttgcttttca aagaaggata gcgatgggtgc 2580
 ctgtatgttt aagccaactt tgagctgaac gcttcataca cctgctcgac gactgtttcg 2640
 caaatcaggc ctctgaaac gtcattggagc tgacagccct accacttctg gtcaagaata 2700
 tggctgacat ttcgttgatt taccagtggg cgagtcctac attacacacg tacggatcat 2760
 ggaagatggc gcttaccctt cgtccccgcc cccgcctaata tcttcccctg aaaacaagaa 2820
 ggcgagagtc ataatcgctg ctgtgagacg gtccggaagg gtacgcatgc acaaagctag 2880
 ggagaacaat gacggctctt tctcaattgg caaaacatgg atgctggatg acctctccgc 2940
 cattaatatca tataatgcga tcgtgccgtc tagccctcag gaggaactgc aaaaacaatg 3000
 ggcacgaac gttggctttc tggttaactgt gggaaagcct tactactggc acgccaaatc 3060
 cccgaaagag aaggatttct ttattggcag tttggtgaaa atctataaaa aatataccgg 3120
 cggcaaaatg ccgatctta taggctttga tgagcgtgag ctccagcttc ttctgggacc 3180
 gcactattct ggcggaaagg gaccatcttc tggctcgctg aatactgaag gatcttttgt 3240

acccccgcgt ccaccttcgt ctcagggttaa cgcctctcag tcccctcatt gggctcgcgc 3300
 acggagccgc gattcgccca aacgaagacc aaacgaggaa gatctacca tacgtgctca 3360
 gcgcagccgg gaacagatga gcagaccctc taccgcgcag tcgggcaaaa gtggtccccc 3420
 tccatttgca ccgccccaac atcctccacc agtgctccca gttgaccaag gggatcggcc 3480
 acctccgcgt gcaatggagc ggctcgcgg cgatccaaag acaccgaaga tcgctccggt 3540
 atcaccgttg gaacctaaaga ttagggaaat tcctagcagc ttgagaacgg cacactcaag 3600
 ggagaatatt agtaaagagg ctgaggaagt caacttatcc agcgtccaga cggagccccg 3660
 tccaccgtcg tcacgaagcg ggaaaatggg acctgaacct cgtcctatcg tacgtagcga 3720
 gaactcgagc tccagtatac ccgaggctag acgactcaat gatgacattg ttccgggcct 3780
 tgctccaagc gagctgcgag tgaaagaacc aaagcgaggt tctgaaacgc catcgctccac 3840
 atccaaggga caaccgacgt cacttgcagg agaccaattg agcagctcaa acaatctgca 3900
 atttgccgat gtaccaccag ggctgttggc aggtttaccc gcaagtaaca atgccactag 3960
 tgccaagcct gtcgagacac cgcaacaagt ttcggagaga gaagagccag aagaacctgt 4020
 cgcggagagc aaggcacctt catctcctat tagccccca gaagcccttc aggagaacga 4080
 tgaagatgac cccgacgctc atcggcctgg cctcggacct atgattaaaa agaagtcaaa 4140
 caaagatgtg gcggggcgcgt tccgcaaagc tgccaatgca tatggggcgt tcaaaccacg 4200
 aagcggaggc gccggcgcaa gacttttagc tgccgcgaag aaacaggctg cctcagaggg 4260
 acctgatggg atcaccagtg tcgtgcctgc gccatccctt gttcgaagag tagaagaacc 4320
 ggcaagacg acgactgaag agcgccctga ggaaacggct actgtgcctc cgggtgcaga 4380
 gacccagaa atcccgtcga cggatgcgcc gcctgtacct gcgccgcctg tacctgcgcc 4440
 aaccgtaccg gaaccaaaca tacaggagcc tcccagggtt gagattacgg aagctgttgc 4500
 tgatgctacc gtagcacctt cactagatgc ccctaaaaat atgccagaag cagtagctgt 4560
 ccgagcagat gaaaggtcac gttccgtatc tccctctcgc gggatcgtcg gcgcaggcgt 4620
 catgaagata aactgtcaa atattgtcaa gcactcgggc tcgatccaaa gtccttgag 4680
 atcggcgagt ggaatttgat gatattctga ccgaccttg ctggaaacgg cggctcttag 4740
 acgagaagaa atttgagacc ttaaacagac gttcccgaga gattggcgcg tggagctaca 4800
 agcttgtttg taaccttgac accagaaagc aagcggccca gttgttaact tattgcagga 4860

atttgagagg gagagttgca cctacccgta tttcgccaac tcatgggttt ccaagctttt 4920
 ttttccggtg taaaataaac tttcgagctt ttttgacccc ttaggtagcc aacccccaat 4980
 tttttgggaa acctgggggtt ttttacta ttaaggggtg tttgggggga cttatttggg 5040
 gaaaaaactt ttttttttta ataaaaagag 5070

<210> 2792
 <211> 1684
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2792

catggaacac accgcaactc acgcgagggc acatcgagca ttatcggcga cgccgtcgtc 60
 cgcggtgacc ttttccgctc gtcacctcgc caatcgagc cgcaatcgca gtcacagtca 120
 caatctggta gcggtgcggg caacaacaac atcgccatca gtatcggccg atacacgttc 180
 atctcacgga gcgcaatcct ccgcccgcgc tctcgtctct cgcggtggtg ccacacgtac 240
 acaacgctgc atatcgggtc tcatgttttt gtaggggagc ggagtatcgt cgaggccgcg 300
 aaggtggaag ataattgtgac gattgggaag gattgcgtga ttgggtcgat ggcgattctg 360
 aaggaaaggt gtcagggtact agacgggtgc gttgtgccgg ggggcatggt ggtgccgagt 420
 cattgtgtgg ttggtgggca gccggcgcgg attgtgggag atacgccaat tgcgtacggg 480
 gttgaggggc tggagggggg attgagtcgg gagagatcgc gaagtatccg atagggtactg 540
 tacttgaggt cggcctcggg tgggtggagt ttgggttatt ggttttggat attatacccc 600
 ctttgttcgc ggatagctgg cctatcgctc aaaaatagtt gagatgtatc tcaggcgcta 660
 atatgtacaa aaagcttctc tgagagaata aatgctaacc catcttctgc acttcaagct 720
 cccgctttag ccggtcctca cctcctggt aggggatacc tgcattctcg cgcgccatat 780
 cattgagcca acgctcgctc ggcttgatta ctccccctt ggagagcttc gaagcaagat 840
 acaaccagtt cagcgagtta ccacccgtgc tcacctcgtc acacacatgg gccagcgcca 900
 actcatgcat cttcttccac agcacgtcgt cgggtacacag gtcgaataaa tgcttgacca 960
 cagcatccgt atcgccgaca tctaccaaga acccggtacc tttgtcgatt acctgcaacg 1020
 ggataccgcc ggctctggtg gcaataaccg gccgaccctt atgaatagct tcggaaacct 1080
 tgacttcgaa cccctcgcgg gtagaaagct ggagagccac tttggctttg gacatgagtg 1140

cgttgaggac ttggtcagat gggccaaggc ggacgacaca gatctgggtcg gcgagggtcgg 1200
 gaatagagtc ctcaatatat ctgacggcca ggtcgtaaata gatcgagcca tccgggtcat 1260
 cgacggagcc gtggccacag atcaagagct tgggtatagg cttatccggg caatagtcct 1320
 gcatacgtcg gtggaatttc tcgtaggact cgattacgtg cgggatgcct ttggatgggt 1380
 cgaagcgtgc aatctggaca atatactcgt cttctctcgt tagtgtagtt ttctcaaaga 1440
 tacctgcgtg aactcacctg caggatagtc aatgaccggc attcctgaat ttgcacacca 1500
 ggagttgaag attcgtccgt aataggcgat atcttcgttt ctcatgttct tgttcagtcc 1560
 gtccagccag tctgtcgacg cgggcatgta gccaccttt tcacggggaa cgatctttgg 1620
 tacgaaagat ttaacaggat ggctaacgaa aatgtcggcc ttctgaatgt ccttcacat 1680
 ggtg 1684

<210> 2793
 <211> 2915
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2793
 gcctccgtct tgagtcagat cccccggcg ctagctccct gaagtcacgc atagttcgcc 60
 tctggtatct cttttgttc cgacatatgc ccagacgtcg cattaccgt cgcatgcaag 120
 ttctctcga cctcaacttc ccgatttcgg acgtcattcg ccctagtat ctccctcatt 180
 cccatgtac agtcatgttc aagatacaca ttctggtct cgttcggcat ctccctcgacc 240
 acagcttcca gagatcacgc atcactcgcc tttgtctccc tcagtccca tgcacaacca 300
 cagtcaactg tcgcatcagt cgtcccgaga gatctctcct ctgcagctta cggaacgcga 360
 agactctcca ccgctcctc cgccgcccgc tcacagagtc gcagtccaac gtcagccttc 420
 cccaggcccc gccgttccac gccaatgga tatgaacgat cgctatgtgg tcttcacaag 480
 gactccgtct ccagccggcc attcagacgc gaacgggcaa acgccctcac cattgcgaga 540
 cgcaatggaa gatgtgatga cttcgctcga agatatgggg atgccacgag actcacgttc 600
 gccgtctccg cagcctgaat tcgataatcc ctggtcaccg gctgcttttg actcgttgcg 660
 tgaaagccgt caccacaaa gaaacaatcg gccattaaca tcattgggat ttgaaggaga 720
 aaaggaattc taccatagcg atgccgtgca tagaaacagt gtctacacgc atgatccttt 780

tattgagggc cgcgcgaga tcaacaacta cgtacaacgg atggaaagcc gactccgcca 840
gatgcaggaa caaggacgtc gaggtccga agacatacag cctccggttg aaaacagtga 900
agaggatgat gacatgcctc caccaccgcc cccaagacat ggatcgtatc atggacggca 960
caattctata cccgctcact tgccgtcctt acgaagccgg cggctctggac atgacctcag 1020
gaatgatatg ttgaatcgaa gcttcaccaa atcgtcgaat acgacgaact cctcgagtgg 1080
cgtgcacagc aatgccacca accaaacttc aagcacggac agaacgagcc agagtctgat 1140
gagcggaccc tccgcggag gttttagcgc aacaagtgtt ggaagctacg caaggagggg 1200
tattgcagca ggcgaaaggc ctagcacggc agtagatgcg gtccggtcga gaggtttcag 1260
cgatctcacg cgaatgccac gtctgaatc gcctatgagc ggcatatcct accattctag 1320
tcataacact tcccgacagg gcgcttcttc tgccatacct tggtaacat cggccactac 1380
gccggaagaa ccgaacagtg tgtttgagg actggccaca ccaaaggoga agaagcaagg 1440
gttcttcaag aaaatactcg agtcagcaaa gaccggcgcc gcaaacgcca gaagtagcat 1500
tgccgttggc caaagcggag ggtcttttcc tccgaccaag gggagagcca tctcaccaat 1560
caggtcatcg cactcgcac gagacactgc tgcgcgcgag atgggcacgg gaaataaccc 1620
catggactgg gtacaagtgc ggcgcgatgt gaaccgagca tcctccccc gtcgaaacga 1680
gagaattgag agagcagaga ggtgtcagat gatggacat cgggtcatat atgcagtgga 1740
agaactatat gagaccgcgg aaggggaaga gagtatcgac ggcctaccca ttagcgagcc 1800
cactgatttt ggtaacgtca atcttacact cgtcgacaag agcgcccgtt tcgtcaacag 1860
tcttctcca atgactaatc cattgagcct tgcgcaagga tacgtctgcc gccatacaa 1920
gagtgatgtc caaaggctgc gcgtatatatt tacctgggtg agcgagaaga ttgcgtggga 1980
cgagccaata gaagatgccg acattgatct gaagcgtgtt ctccaaacca agagaggctg 2040
cgcccaagaa gtcgcctatc tagttcgtga gatgtgcgct gcagtgggca tacatgccga 2100
cgcaattgaa ggttttctca agccaccagg tgaggtgttc gatttgga gcttttcgcg 2160
tccgaatcat tgggtggaatg ccgtgctcgt tgatgggtgac tggcgcttca tggattgtc 2220
tctcgctaata ccaacgaacc caataagaaa ccaattcgtg accacgaata cgacggtggc 2280
cgagtcttgg tatttcttag cccgacctct cgagctctgc tatacacatg tgccgcttga 2340
gcctgagggg cagcatatct gtccccctat ctctccggat gtctctctcg cacttccac 2400

agtttgtccg acatatttca aaatggggct gcaatttcca gattatgaca ccagcgtatt 2460
 tcggatagaa ggactggaag tccttcaggt tcgtattttg gttccagcag acgtagaatg 2520
 tgctgcggag gtgcaggcgc ctggattcgc tcgtgatgcc gacggggact tctttgagag 2580
 tggagaaaac gtgcggaaaac gagcgcttgt ccagccagat tgggtcaatg gtcaaaaacg 2640
 cataaccatt aaggctgttt taccggcgca cgaaggcgaa ggtatgggtca aagtttatgc 2700
 cggccgaaaag gggtcatgc actccagccg agacatacct caccgccttg cctttgcaact 2760
 cccaatcatc cacaccggag aaaatcctcc atatgaattt gtccttcgcc atcccacccc 2820
 tcacgctcaa cgccacgact tgtacattat tcaaccgcag tgtgctcagc tggctgtaac 2880
 acacattggg atttgcggcc gcaacatcct tatcg 2915

<210> 2794
 <211> 2240
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2794

atagagaaaa taatttactc acaccaaaga gaagattaaa aaaaaaagtg tttaaaaaaa 60
 aaggccgctt ttagggaaaa cagagggagg gcctcatccc ttttggcttc cggcccttaa 120
 gcttgtagcg gggcctcact atatctggca agtttctgag agggaagggt ctctcttcta 180
 aggatttatc ctaaacagtc agaaatgatt aagcgtcttc accgaaagac actacaatat 240
 tttgttttag cgcttctgct tcttaciaat aatttggtag gttgggcctc agttcttccc 300
 gcaatttctc ctctctggct tccctctcac tcttgaaaaa aggctgggtc accgccgcat 360
 tgggtgctgac ttgcggcatt cgcggtggc tgccagatgc ttctgctttc tttgtcgagg 420
 aacaaactta ggcatctcgc caaccggttt ccagctcgga gatcaaaaaa accgaatacc 480
 actggggtag gagtcgtcaa tctgttgata ataatgaaaa gaatctagaa aatttcaggc 540
 ggtggtggaa tactgccgca ccgccgggct gatagcgtca ccgccttctc tatctccgat 600
 tctccgcccc ctccatgtgc cccaactgct atttgtatac aaagcacgca gtccccgctg 660
 gccataacac tccttcgaaa gagtctcaat atctcccaat cctcagatgg tcaataataa 720
 tggcagaaac actcgggcta cacggcctta acttggaact tcctttcccc gcagctacca 780
 agcgagtatc tgggaatatc aatggaatcc acacagatgt catgaccatc aagttcagtg 840

ataaaaatcat gattacaata tcacaaaaag gccgacttgg ccattggggtc agtaattgag 900
 ctccagatac caaaaccacg ctgaccgggtc acagctccat gttccactgg aaaacaaaaa 960
 cccaggcaca gaaggccagc atagaattcc agatcctgcg aatgatgggtc ttcttccggtt 1020
 gagtaatttg acggctacgt cgattcttgg gggtcgtgct ccgggacacg aaattgttgg 1080
 tcagctatat gcccgtcaga tagcgagtgc cattgtcacc aagacaccaa acgagaaccg 1140
 cttgctgggtt gtcggactag gattagaaac agccgaagcc gaccgagacg tgttcttcgc 1200
 tgtcatagac cttgtccttc agtgcatcta aggagcaaga gacagtgact tacagattta 1260
 gatgcagaaa cgttcacctt gtatctttct tttctcccct tcgaccttca agttgtgaag 1320
 ttgagacca taaatcaata ctaagaggta attgcgttcc tctacagtaa atctcttctc 1380
 ttgaggttca atctgccgag gaatatgaat gcgccgctga agagagcctt gatcagaagt 1440
 ttctcattga agcaaaccac cttccagtta tcattgacga ccacggtcgg attatagagg 1500
 actgatcctc tggattcagt cttccaggag atatataagg atcggcgacg ctgcattgct 1560
 gtttcaaagt cactcgatcc aagcacatta gaagcgacac aaatggggtt tgccatccaa 1620
 tcatccgata ttgtggctac gacccgggtt ctcgtttaag ttgagttatc tggcatcaca 1680
 agaggataat tgtgtgagat gcttgttagg tggtcgcggg aaaaggcacc aaatgttcta 1740
 taaaacagtt tgcggtaact cagggaatgg tacaggactt ttgaagcctc atggtagatg 1800
 gcttgaacc cttaagaat agcctagggtc tccagcctcg gtgcgttttg agtctttcga 1860
 tctccaaagt gctgccgcca tgtttgggca gctcttcata aatgcgaaat ctgacatcaa 1920
 acgggagacg ataaagatag ctgctcgtgc ttttctcttc atctttgaga acacctctca 1980
 cgaactttca agccacgaag acaatcgtat catgaaagcg ggcttgctta ctacggtcct 2040
 cgaagtgaca gatgcacccg cccaccacat cgtgggcctg aagaaacgca tatcgacgct 2100
 aagtcaacat tagcagtaga tctttcttgc tggcctacag acaattctac tgggaatttt 2160
 tcggttctag aagagtatag cgctgtccta aggcaggctt ttttttggaa gcttaccatg 2220
 catcctcgcg aggtatctct 2240

<210> 2795
 <211> 1651
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2795

tctagtaacg gccgcgtcta aagaaacaac cgagtcccg aatagctgtgc ccatctggcg 60
agaaggcgaa gggattgctt atgaggggct cattcaagcc ggcccactgc agctcgtcga 120
tcacaaacac ctgaccctcc agctgcttct ctttgggcgg atacagtgcc aatctgtcct 180
tcacgccagg gacgaggtgt tccaagcttt cgtacagcct cgtgttctcg tgaccaagcg 240
gcagcttctg gagagagcca ttctgcctcc aaaaatcatg caccgctagc gtcctctcat 300
ccttcatcca catcagcgt cccatagggt catggagcac cgttttctgc gccgcaacgg 360
ctgcgtccgt tagcgcagag cggggcccaa tccagtcct cgcgctgttg tagttgcacc 420
acttatagct gcgatgaagc acgtcgtgcg tcaatgtcac tccgtcgtcg accgtctccc 480
acattgccaa cgtagactcg ccgatgggtt tctgtgccgc gaccacgcgc atcacggtac 540
gcagctcage catctggaag tagttccgtc tgtctccgtt ggccaggatc gtgccgttgc 600
gatacacgat cccgcggatc tgcgccatgt caattgcccg gcattgtctt tctgggggat 660
aggacgacgg gccgacttcg agccagacag ttaggccgag gccgcctagc agcgatacga 720
cggcgttgag aatgacgggc tgaaagtgtc cagagaagtc ggcgagaaga atgccggtga 780
agaacgactg agcatcggct gggcggttca agtgcgtctg gagcactttg acaatggcgg 840
aaatggcgcg catgctgttg tcgtcgccat tgtcgccgca gtcgccagaa tcagggctcc 900
cgtccgattc aaccagtttg cggatttgca gtctagcaag aatgtgcttt gctgtcgtgc 960
ttggcaaaac gtcgctcaca ccagcctgca aggggtccag cacaactgcg tcccattggg 1020
aaaggagccg agcctggtct gaggtgggag ggttcgcgaa ggcaccgaga tacaccccga 1080
aggatctggg ctccgggtact gcggcggttg ggtatacag acgaggtgtc tctcgtttta 1140
agcgtcgtat acgccgcgt acatttgaag gaagacccga aagttcatgt cgtgtctgcg 1200
ttcgtcagtg tcatctactg cattgtgcc atgctgtcca gaatatatgc gcttaccgc 1260
cagtagtggg acaactgtcg gccaaaccaga tacaggatat atacaccacc caagacgatt 1320
gtcgcaagca agcaggcggc cagtgtctat aaatatcagt ttatctgcta gatccaaaca 1380
ttgtgaacca gactgacctg ctgccaccac gtctgcgtca tgcgctcca tccgctcgca 1440
tggaggccca ggtattcgat acccatggct tctaataagg aggtctcagg gccgagacga 1500
aacgagggac ggacaacaaa agaaggaagt aaggtgagaa ctctcacagc agagcgggga 1560

agagtgggtt atgtagtgat gagatcgac agcagggtag cagcccgata acccagcttg 1620
 cactggccag gatccgcact ggagcctcag a 1651

<210> 2796
 <211> 1399
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2796

gtccaaaatg ggtgtttccc ccacaggctt tgatggttgg gaggccgagg aaagggttaag 60
 gggctagggc tatataaagg gggggggaaa gggaataggg ggaaggggag gtgggggatt 120
 tgccagggtt acccaggtta gttgggttgg gcttgaaaaa ccagacattt cccccaaatt 180
 ggctcgaacc gggccttatt gttttagga tatttttaggc cggctttgtt ggggggtccc 240
 cccgttccct tcttttaggg aggcggggac tattccatgg atccttgcaa ggcattgcctc 300
 ggggtttttt ggggtttggg cttggggctt cgcaggcccc caaagggccc cgggggagta 360
 cccacatgtt aagggttcggg gtttccaaa gggcaggggc tcagcttata catataagag 420
 tgaggaaatt gggaaaaatt ggggggttgg agggcaggtt ttcattggcag tcacgggggt 480
 ccgaaaaatt ctagacggtc tggggggcct tgtctatcta gtcacgatta ctgagcttgg 540
 ctcggtcgag tataggccgt ttttaaaagc ccgaggggct gcctgtccgg gatccctcct 600
 tttcgcgcg atccggtaag gggcttggtt ctctcgaca aagtccgata gtgtttgtga 660
 gaagaccagt cagctatttt gggatccaac gtcgaaatc gaccctgat tcttcagcc 720
 agcataagtc ccgactggca agagtcaaag aggcgcgcac ttccccttcc gctatctcgc 780
 caggaaaagc atgcgatact gtcacccaag atccaaatat tacgggttccc tcccctcatg 840
 aaactaaacc gtcgtcgatc gtgtcacga cgcagacatc ttcccgacat cactctaata 900
 actctttcta cgcccagctc caacgcgagt cgcgtccgtt tacagacgct gtggcgagc 960
 tcatgctaaa ttctgtccca ttacatctct tcttagccaa gcctcagagt ggagagggtta 1020
 tctggaccaa ctccaaattc gatgcttata ggcgagacaa cctcaagagc aaaagtcgag 1080
 ggatccttgg cagaacatcc acgatagcga acgcgataat gtagctacga agtgggcaaa 1140
 agcgctactt acaggctcac agttcacaga acgtgttcgc gtcaaaagggt tcaacgatga 1200
 gtcggcctac cgctggttca ttttccgtgc caatcccctg ctgtcatcaa caggtgaagt 1260

cctatactgg attggatcct ttctcgacat tcatgagcag cacgtcactg agctgaaggc 1320
 tgcccaggag cgagagaagt ttgcaattga tgccaagtat cgcgcggttct caaattcagt 1380
 tccgcagata gtgttttgaa 1399

<210> 2797
 <211> 1177
 <212> DNA
 <213> Aspergillus nidulans

<400> 2797

gggcgtcgt gttcaaggct gaacagagcg catcccaacc ctgactctat attttaaaca 60
 ttggctgacg ctgtttgatt cgcgatttat tgaagacctg ccatgcgcga aaagtgagtt 120
 cccgcttccc cccctccgct cccgctgcga ccgtggcctg gccactgcac ggctgcctct 180
 taagaaatcc gctaaccaca cctcttgatg attaggtccg ctgcgacgct gccagtctag 240
 gtgtgccttg caccaactgt gtggcttttt ctatcgagtg cagaattccc acgccgaaac 300
 gcaagaagag ccaggcgaag cccagagagg tcggcgagta ggtggcaacc gtatacccct 360
 tcacgtctac catcgactga ccactttatc atcgaatagt agtaacggtg atggcgacga 420
 taaatctcag agtcaagaga agcgcgaaaga gtccctgccg atgcccggca aggatgcgtt 480
 tggttatcag aacagcaaca ccagcaacac caacgccatg gcagtcaacg gtatgcctgt 540
 gacaacactc acggaagccc aagccgccc acaagcctcg caaaattcga catacgctca 600
 attcatgaag ccgaaatttg cccgcgcgcc cataaaggaa gctggaaggg ttgcatactt 660
 gggcgagtca tcgaatcttt cactcttgggt tcaagaccgc catggaacga ccgacgtggt 720
 ccattattca ctgcctacca acatacgagg ttctcgcgcg agagtctccg acttggataa 780
 tcttgagtta gatatactgc accagcgcgg tgctttccta ctccgcgcga agtcgttgtg 840
 cgacgagtta gtggacgctt acttcaaagt ggtcgcacct gtcgtgcccc ttgtcaaccg 900
 cagccggttc atgcgccaat atagagatcc caagaacca ccttctttgc tctttttgca 960
 ggccattctt ttggctggtt cgagggctctg caccaatccg cagctcatgg acgctaattg 1020
 ctcgaccact ccagctgcta tgacatttta caagcgagcg aaagctctat atgatgcgaa 1080
 ttatgaggat gataggggtga ctattgtcca agctttagtg ctctggggct ggtactggga 1140
 gggacctgaa ggtgggtgcc ctaagcagaa aatggtg 1177

<210> 2798
 <211> 4047
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2798

```

tttaggtaaa gggtagtgct tggggcggca cctaagcagt aacgagggcg ctgcgctctgc   60
attctcgaca tgctcagata atgcaagtcc tgtacatcac gacgccgacc gtactaccac   120
cacagagtct gatactgcaa ctgaatcgcc atcgccgctt tcattccccg cctgcgctccc   180
catcgtaccc gtcgtggtag caatttacct caaagtccta cgcacggcct ttgtttctgct   240
gaacctgcac ttgcccgaatt cccatctcat cagcgaattt cgcgcaacaa tcacctccct   300
tggccgtgaa tccgcaacgc tcggccttac cactagcctc ttcaatgaca tgctctatct   360
ccactggcgc gtcacgcatg atttccccga ggtcattgcg ttatgccgcg agatggaagt   420
cactgggtgcg cagcccaaca tcggcacgat caatatactt gagggtatcg tgcgcgagcg   480
caatgaagac ctctggaagc gtcagtcggg cgagacctcg gagcagccat ggtgggattt   540
ccccgataat cggaggggcta tgcgtaaatt gttaggggag gacgggatgc ttgagagggt   600
caggaggcaa tatcgccaag gcaaggagag aaagaagatt tggaagccgt acctctaata   660
ctggaactta agggctttac ggtatcttca tcttgcaaaa aattcactat cataacttac   720
cgcgcgttag atctggcagg atgtagaaac tagagtaaaa tgagtatata tcaaataatat   780
cgtcaccggc cgtacaagac ctatcttcaa gagaacgagt ctatcgagtt gtctactcgg   840
atatttgtaa agacttgggc ttataaaatc ttactgttc cgtcaaccct aacgttatct   900
ttccggaaat gagcgtagcg aaaatactaa ctccgaccgc ggcaaaagag tccttgghaa   960
taaattgtct aaccataagt caaatgctca ttctgtctat gccacaatg ggaattcgtg  1020
ggctatctac acaacaacag aaaggatcta gagccacca ctcgctgtct acaatcagca  1080
aagtgtccaa aagagacaat aaagagcatt gggatcactc atatggaccc tgaaaacgga  1140
tacctcacag ctcccttttt ttccgcttgc aagaataagt catgcaagaa aagggtctct  1200
ttatccctat ttgacactca catacaaaga cacagacata gacagaatag ccatcacaac  1260
agggtatcaa caccatgaga aaatgctttc aaaagagaaa gaggagtagt agaagtagga  1320
gagcgacaag gaaagaaaga gcgttaatcg tgaggagcat atatggcaga gatgcgaaac  1380

```

ggcaacggct gaggactgaa tgcccttttag ccgagaacta gagcaaacat atacaccaga 1440
 agatgcgaaa aacagcaagt gctaagccac catatgttat aagacagtta acggagacct 1500
 gttctaggtt ggtctgtctt cctgtttatg cttttgagga cccacaatgg ttcaatcagc 1560
 ggcggcgggg ggcgagtgcg gagcattggc tgtagaaatt gtaattatag gatgggtgatc 1620
 gtcacagaaa ttcattccgt agctcttcgc gtgactgctg ctgggttgga tcgcggtctt 1680
 tgcccttgcg cctggagggg gcaggcacga aatcgaagaa attccggtat ttactcgttg 1740
 tctccctagt catactagac ctacgggact tggcagcatc gggaaattca agtgaatatg 1800
 ttgaagagtt ttttgagctc cccgtgctat cccgaggttc agaccacctt ggtattgaaa 1860
 aaggctactcg gctctggtcc caagtggcag aagaggaact cggaggggtc tctcatcgg 1920
 cttcaggagc ataatcagtt gaacgccgcg ggagggacgg ccgagaggca aagtatccga 1980
 tggagttgcg gtggcttccg gtaaaagacg ccgctgatgg cacaacgggt tcggagatgg 2040
 gcgctgaaga aggcgccgcg gccggagtag caggtttgga tgagctttct tcgtaaagt 2100
 tcacagaacg ctccagagaa tcaaccaatt ctccactt aacttcgagg ttgccgctgg 2160
 gacgtccgc caactccgcc ctgcttaagc attctttagt tctctgttgt aagcggatag 2220
 caatctcatg gaatttcata actgcagggt ctaattcttc cagttgtgaa agtctgcctg 2280
 gcgcaacttc tagccatatt ctgatcagat tggcgaagct tcgtgcatgg tcgatcagga 2340
 aaggaaggct ggggaatccc tcgcgcgacg gtggcggaag acgaccgaga atctggatgg 2400
 gagtggcata ggatggcgta acgatgggag tcgggcgatc ggccgggatt gcacaaatgg 2460
 agtcgacaaa tgtcttgaa tcattccggt tgctgttaag gaatttggtc atcggtcca 2520
 tccacggctc tttgcttccg aatgttgtca tgttggttag gccctgtagg gctttggcaa 2580
 tcagtgttag ggtgcgttg gcgcgcggtc ggggatgatc tagacgcgca tcagtaagg 2640
 gttacagccg tagagaaatt aatgtagatt tacctttcaa cagtccgaac agtttcggat 2700
 tcaggattgc cggacaaaag aaccgcaaga agaggaatcc agatacactg ctgtacgtga 2760
 ctgagcggag gaaatcgcca taacggtcac cagcacaagc tcgaatgtgt cgaaaaataa 2820
 gtcttaactc cgccgggcat cgtgaggctg aactagctat ggacttccaa aactcgtag 2880
 taaggctgac cagatttttc cagttgcgct cgagatcgtc tgcccgatgt atccgagacg 2940
 gatcaacttc gcattcagga tcggtttcat cgatttcgta aagacgttca ccaatcgttt 3000

cttctaggta ttccttgccc agccgacgca tgtggaaatc aagagctttg gtgagaagcg 3060
 agtttcctcg gaaaaggaga ttgtcttcta gggttgcagt gcgtcctaga tcgcgaacta 3120
 ggacctctct atcttgaccg tgctctctgg tgctcgttga atggagccgc gatgtatacc 3180
 gaagtctgtt ggccgtggac tccttgtgaa taccatcaat ctcatcttca acgagcgcg 3240
 atatccattc gaccgtcgac cctgacactt gataaatatt tataagtgtc tcagacagct 3300
 gattcaattc cgaagacata atctcagcca tgttgacagt gaggccgtta ccaaacgagt 3360
 ggagaatttc ggacattggg gcgtactcct gagacatgag cacaactgtc tcctccatcc 3420
 gagctttcat caacatctcg ccgacacatt gatctctatc gtccagaate ggccaccact 3480
 tttcggtttc cgtacctggg tctaggctgt cgagtcggat atccaccctt ccacacatgg 3540
 cgtcttgaga agatacctca acatcatcca atagacgcgt tggatttgtg tcctggctca 3600
 aagcatatgt accatgcgcc actaacgacc aatcacgttg tgctgggttg agagttttca 3660
 ccattatgga aacctgagac agaaccggcg gaagatcgtt gaaagtaaac tcttctcgcc 3720
 agaagggatt ggatgtacgg tactttacag ccgttctcgc ccgaatctcg ccattctaga 3780
 ggacctccgt gtagtaatcg ttggttgagg atgccgggc gcattaaag tgagaccgcg 3840
 actgtttacg actcctaggc gtctcatcga cgcctttatt accgaacatc ttcgcttcag 3900
 ttaccttgac ggtagcatc ctctcgattc ggaacatatc ggtaagggat gttgtgttgg 3960
 cattgccaga gtcaactgag cctgggtgtc ttacagtgtc atcctcgggc ggattcgccg 4020
 ggccatacag ttccggtgtg gtaaagg 4047

<210> 2799
 <211> 3867
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2799

actcccaccg tcaccgacat cagtacgttc gcccgattct ataatgattt tcccgcggtt 60
 ttcttggaag gagcgaaagc aggatagggg cggaggacca tggaggagcg atggaataat 120
 agcaaattgc catgagaaag aattgtgatt gctaacggag gctctttgat catagtcatc 180
 cgtgccaccc aactcagga ggttcttga gagcagggtc gccgcacccg tgagctcacc 240
 tccctgattc agaagcgctt caagttcccc gagaactccg tttccctcta tgccgccaag 300

gtccagaacc gcggtctctc cgctgtcgtc cagtgcgaat cctccgcta caagctcctc 360
 aacggtcttg ccgtccgtcg tgctgtctac ggtgttctcc gctttatcat ggagagcggc 420
 gctaaggggt gtgaggttgt cgtttccgga aagctccgtg ctgcccgtgc caagtccatg 480
 aaattcactg tacgtttgat acggcctctg aggttaccag tggaaatgca gctttcgaat 540
 gaagaattga agtgtgatga catgatgcgc aacgcgcgga ggacacattc ggaattgcga 600
 tttttcactg gcttttttgt gtgtaaaaca gctcactaac atctccttct ctgttttaga 660
 cggtttcatg attcactccg gtcaaccgcg taaggagttc atcgactcgg ccactcgtca 720
 cgttctctc cgccaggggtg tccttggtat caaggccaag atcatgcgcg gctccgaccc 780
 tgagggcaag gccggtctc agaagaccct tcctgactct gtcaccatca ttgagcccaa 840
 ggaggaacag cccgttctcc agcctatcag ccaggactac ggtgccaagg ctatcgccgc 900
 ccagcaggct gctgagcagc agcgtctggc tgaacaacag gccgcggaag gccaggaggg 960
 cgggtgcagct gagacttacg cgcaggagta atttggtcat ttcttcgttc ctgtcatcta 1020
 ccttatttcc atgaaccaa aataaagact ctatgaacct tcatagtctt cgctgcgctg 1080
 ggaagcgatt aggctttgta aaattacagc ttcgaaaaga ctcaaataat tgatcaaat 1140
 taaaagggca gctaggaaaa taagtagaac ttagttactt cgaaagggtgc ttaagatcag 1200
 tatatccgta tgcggactcg aggaatagta ggagcgccag cagctttgtt ctagaacaat 1260
 tttatcatc ttagtgata ctgctgcacc agctcttggt atgtgtgttg tagatcggac 1320
 ttcttcaatt agaactggca gactactaaa tgtcgcattg caaaaaata cgtcacctag 1380
 agcggatagg atcgggctgg aactgtttta cttttttat tcattcctct ttactcaagc 1440
 taaggtcaga tcaaaccaaa catcatagga tattgagtgc catgagataa ggtgtatgct 1500
 atctatgcaa gtctaaatca ccatttcccg cagattgagt cttcaaacc ataattctcat 1560
 aggaatgttt cgatattgat ttcaagcgtg ctgacggggg atttcagacc gtagttctcc 1620
 agcacagtgg gatgcagaat accaaaagta ccgatgggtg ggtctttgcc ggcaatgcga 1680
 acgtggatag aggccgagt accgtggaaa taagttgggt ctgtatcggt atatcagtga 1740
 ctagagggac ctttgagtct tgtaaatgag gaagacttac cgtccagctc ttcgatccag 1800
 tactgcgagt ccttgactgc ggcgttctcc aggcctctt cgccgatgat gaaagcggac 1860
 ttcagcattg acatgatgcg gtcaagcaaa ccgtgtacga cctcgaagcc gctagttttg 1920

ctgtaccatg cggcagcaaa gtgtctttcg tttcgactct tacgctccat cgatagatcc 1980
 ttgaaggcga catcgctgac ctccaagatc ttcattgggca ctgagtgaga cttgttctcg 2040
 cggatagtct tcaaaagacc gggaagaaga cttgtgcgca cgacctggaa ctctgtgtc 2100
 ttgggggttcg ccagcttgac ggctgtgttg ccgtcgtcct tgcggttaag ccaggcaaag 2160
 ttctcgtcat gggagcacia gatcagaggc agcacctcgg accaaccgcg cattgcggcc 2220
 tctgtgcgaa tgatgtcgga aagcttggtg atcggtaacg gctgagcaac cgtgcctgac 2280
 ttgcttgga aggaccgggg gagattgtta aagccgtagg caatcgcaac atctccatg 2340
 atatctgctt gatgaaggat atctgcacgt gttgggggaa tgtgaacgtc gattaagtca 2400
 ggagaagtac tagacggtgt cgcttcatat gccatcttcg tcaggagtct acaaactctc 2460
 tccgcagaga gctgcaagcc acaacactgg ttgatatacg agacttcggc ctgtgtagtt 2520
 cgaggtgcaa tgtcaggagt gactctcgtc tcgttggtgt gctcagagat aatctggaca 2580
 ggctcaaccc tgtttatagc gagatcagct cccgaaacct ttaaattgag cacaggaatg 2640
 catgggttct tacgtgaagg gctcggatgt gtactgcgag aacatcgaaa ccatgatttt 2700
 gttcacaatt tccacttttg tcttatcgag cgctgtaatc tcaataaaaa cattcttagt 2760
 gtttagcgta atcttcgagt gctctccgtt gataattggg gggagagagc agacggttct 2820
 gttggcgctg tagatgactg gtaaaccggg gaatcgcgga tgatgtggag atatctgcct 2880
 agatgcttgt ctttctgtag cagtattagc atccggacca gctcagtaca cagtgggcca 2940
 tacatcgtag aaggccatga gtcctctccc gtccatctcc tttgtttggt taagaggcac 3000
 aaagcgaatg tctttaggcg gcagagcctc atagctgaac gggcccttga tagtgtccaa 3060
 gtcatgagta ccaatggaga cgagtgtcct ttgcctcgcc aaattctggt ggagtttgtc 3120
 ttgcagagcg atgaaagatt cgtaacgagc cttatcaaag gtgacatttc ggaggatggc 3180
 gcccgaacc aagggtctga tcttcgaagt ctagatttgg ctagtcagca aagtgggtgt 3240
 atctagagag cagtaactca agagtcaacc cacgtcctcc ttcacaatga tcttttggag 3300
 ctctccgctt gggggctcaa ccaatctgta tttaggaaga ggtttccgtc ccaggaatat 3360
 gttgagcatg agggcaattc cctcgaaaca cagcaagtca tatctggata taactgttta 3420
 gcacatttcg tctggagttt cagaatatgg tgcgtaccgg ttggcgggga tttcaatttt 3480
 gagttggggt gggttcctgca cgccatcgac aatcgagcgg tccgaattcg ttgtctaggt 3540

taaattagcg agagtatcct aagttgggaa tgaatagcgt atgaatacat cttcgtcgag 3600
 ctcaatgcct ataattcgac ttggtcagcg aaacccgcac cagaatcgaa agtaactcgg 3660
 aggggtacct accgaactcg aagcacagtt catcgaattc ctcagtggta tatctgaaag 3720
 cctttagtca tgcacaatac cagttctcaa atctgcatag ttgaacatac tctctgccga 3780
 gctccttgaa aagcgcgggc ttgtcgaccg aaatggtagg catgatggag gggttccaat 3840
 cgcagccgat gagtcagata ccgttcg 3867

<210> 2800
 <211> 1162
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2800

gcggtacaat ggccggaaga cccagcattc gtaaagtgag caatcccgag ggcgtgcttc 60
 tcgggattta aatgggtatct ctgggcaaca gactcacatg catcaatgca ggctaactcg 120
 ctgtacaagt actcttctgt ccggtcttgc cggagggcca ccgtcaggtg agccttcatg 180
 acaaggcaat agtgcataa ctggacaata tgatcaggcc ttagatcatt cgatgtatgt 240
 atggcccacc aagacaaacg ggtctgataa ggatgatcta ccgcctctcg aataattaga 300
 aggcggggaa atgaaagcta ctggggcgga cttcactag cgctgatgtc ttacagggtc 360
 gcgtatcttg ggcgagacat ccatcaacca ttcattgata ccgacgcctg aacaacgcca 420
 ttgactatta gctcatcggc gtttcttagc tgataccgtc tagtatatgg tgggaggttt 480
 attaacaacc cggacaaacg gtcgaccgtg cagattagat tccagagctg catcttctca 540
 ttccgctctg cctcttccgc aggcccggtg ggctttttta ttcgagcgag ctgtacggcc 600
 ttgggtagac ccattagctc cgcaagcgcg atgagatgtc gcaattttag ccagcccttc 660
 tgggcgtttc cacgacccat ttgcctgttc cagacgtttc agatattgag agaaaaaaga 720
 aatcacaaga cgagcttaca agcgaatgaa gtggatgcac attccgagcc cttgaaatgt 780
 cccgaccaac ctatcatgag ccaggaccag actctcaacg gcgtctgaca cgggtgcgcg 840
 gaaatctatc cgacgatggg atcccttcga tggactgtcc gggctctcgc ctccttgcgg 900
 cacctgctgc gcggtgatag ccagagtcaa tagccacgaa gccagagcaa taatgtccac 960
 acccggtcca cacatctctt cgtaacgata gaggatttcc tgctctgagc tgggcactga 1020

cggttggggc aacatggcat ggaccatctg cagccagtca taagtgcaaa ccagcatttc 1080
cgccgtctgt tcttttagtgg ggatcagctt ctgcagcgct gggcgactct ctccggcgagg 1140
tgcgcggacg cttcactcta cg 1162

<210> 2801
<211> 1466
<212> DNA
<213> Aspergillus nidulans
<400> 2801

gggaaaaagc gacgagggga tagatatcaa tcaggcgtga gagtgcagca taaattgaaa 60
gaagtgtgtaag caggggtatgg tgatcaaattg ggcagggcaa accaagggga gaataagggtg 120
acaatatattcc tgagccgagt tcgtaagggc atgccaggcg agggggcccc acttttgaga 180
cagagaattc caaaaaaagc ggaaggggtcc tccgcatcca accggccggtt ttttgggttg 240
aaatatccgg gaaaacctgt aaaccatcca tggccggcga tttgagggcc taataactgg 300
agggttccag tcccaggacg gtccaattgg atttaggaag cctcatcccc accacaacat 360
tctttgaaaa ggaatccgaa aaccccaaat cacatgttat aggcgattcg tcatactttg 420
ctgtcagacc agccgttttt ttgccagatt tgataaacc ctcctggaat tccgcagcgg 480
acgcattccc cttggccgag aatagcttcg agaagtatct gtogaagttg atcaagtcga 540
tcgctacctt ttcacgctcc aagacgtatg tctccaacaa tgatggcgga gcgagcccct 600
tcaggacatg tgccagtttc cagccgatat tgtatccgtc ctgcaagctg acgttcatgc 660
cctgtccggc cttcggggag tgggtgtggc acgcatcccc gccgaggaag atgcggtagt 720
tcttgtggaa gaaatctgcg tgtcgtggc cgatcgcgta cgcagaccac cagaccgtct 780
ctgtaaactc tatcttatac tggctgagga tatttttggc tgctgtctgc aggtcttcaa 840
gcttgacctc tttagccttc gtgccagctg gcagctcgat atagaaccgc gtcaagttgc 900
ggttttcgcc ctctcggggg ataatacagta gactgcccgc cttggaccga atggaggctt 960
ttttgcggat atcagggaaa tcggtacgtg ggatcatgtc catcacgcc cagactgcat 1020
ccgtgctatc accaatcata ttgtaaccga gttgcttgcg aacagtgtg tgcgccccat 1080
cgcaacccta gcttagagtc agtccgtcga aaagcgcgat ctccggctcg agaaacttac 1140
caaaacatac ttcgectcaa atgcttgtac ctccccatcc ttctccgcgg tgaccttgac 1200

tgggtatttta tccccctcat cccctagctc cacgcccttc acatcccatc cgtattcaat 1260
 ctcttgggccg ttaaacctct tcattgcacg gataaacaat ccattgatcc ggccttggtt 1320
 caggataaca tgcgggcaat ggcacagccc tggctgtgta tccgccgtcc tccctgttcg 1380
 tgagatacta ccatgtcctg agccgtctga agcagactca gtcccattct cgccecaaaa 1440
 taccatttcc agcacatggt acgctt 1466

<210> 2802
 <211> 959
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2802

aagttcaaga actgtgagct aggagtcgga cgccgacata cgctgtatcc catgttcgga 60
 gttggcatcg taagtccctt aaccacatt cgaattaatc tattctgata tcctagttca 120
 catctgacgg cgagacttgg tcacgtctc gagctctcct ccgtcccag ttcactcggg 180
 accagatcag cgacctggat ctagaagaga gtcacgtaca gcaagccatg cgcgcaatga 240
 acgttgaccc agccacaggc tggacctcct ccattgacat ccaagccatc atgttcgggc 300
 taaccatcga ctcggaaca gagttccttt tcggcgagag cgctggcagt caggcagagg 360
 ctcttcgcaa cgggggcacc ctgcccctta atcacttctc tggcgacttt gacctcggcc 420
 agtggtagct tgcacaacgc tctcggttcg aaaagttcta ctggctggtc gataatcggg 480
 agagtcgagc agttgtgaag cgagtgcacg aatatgtcga tcggtttgtg catgctgtac 540
 taaccacagc ggaagacaga attgagaaga gtcagagttc aagctacgtc ttcctcgaag 600
 ctctcgtctg atcaaccaag gaccccattg agctccgtc ccagctcctc aatatectcc 660
 tcgccggccg cgacaccact gcctccttgc taagctggtc taccctaag ctagecgggt 720
 atccggaagt attcaccaa ctgcgtctcg tcattctcgc tgatttcggc tctacacat 780
 cctcccgga caagatcaca ttgcctccc ttaaactctg tcgtacctg caatacttcc 840
 tcaacgaggt cctacgtctc taccgccgg taccataaa ccgcccggtg gcaacatcgc 900
 cacgacccta cctaaaggcg gcgggtcggc tgggggacaa acaattctac ttcgtgcgg 959

<210> 2803
 <211> 1415

<212> DNA
 <213> Aspergillus nidulans
 <400> 2803

```

tgctgtggct atctataaac ggtggtcagg aatggctgta ggtggcggat aatatgtgtc   60
cgtcctggct ggtcagagag atatatactg ggtcttcaaa aacaagcact attatttcga  120
gaaatgggtg gtttctcggc cgaacacatc ctaggataca acgagtaggg aaaaagggcc  180
tgagggtgaa gaacagggat gactataagt gtaaattacc acatacagac ggtttctgtt  240
gactcaaggg gtcttgtagc gttaggatga aggggtggcc ggctaaattc acacggggag  300
actccacacc cgcacatag cctgagttgt cgttggcgga taatcttcgg cctaacggga  360
agtataagtg ttctataacc ctattggatg catttagccg cgctcttttg ggcgtagccg  420
agatgcacct ggacatgatc gggctgatcc agaagaggcg aagtgcattt ggggatgtgc  480
ggtggcctta agaaggtgcc catccactga agaagtgtag acactactga agttagggcc  540
taccatgagt tggggggcgt tcacaggttc accgtcacta gacaaacgca gcatggcaaa  600
tccacctga acgcccctaa gccagctgct gccgacgctt atccttggtg gagcggactg  660
tagctaccaa cacacgcaga gccgaacgt cgagcagacg agagaggtgg tgggccgcgc  720
ttttgaactg ggggtgagc ccatcgacac gtgtacgtac tatgagccgt cagaggcgct  780
gctaggcgag gcgctctgc acccagactt caccaccaga tatcgagga cggactacat  840
gcttatgacc aaggttcgcc gcgtaagcgc gacgaaatcc gactactcgc cagactggat  900
cagatcctcg gtcgcgcgga accctcagcg gatacacacg aggtatctcg acgtggtatt  960
ctgtcacgat aacgctcttc gtcattggagg aaagggactt taggcatcc tgggtggctat 1020
agaggtgggc gactccggca cagggttga cattgggtg cagggtttcc aataacacgc 1080
ttggcagagt ggttgccgcc cgcgtaattt tacggcgact gtggatgtat ccgaaatgtg 1140
ccaatggcgt cataacaccc gcttagaagg aaggtttagg attaagaggc attttaattt 1200
ttttaatgcy cccttgtaac gttcctcggg gagcagccat tgttctggga tgttttaccg 1260
gggccttagg ggccactcgg cttttttctc agggcgttgc tttttttatt ctaacaggca 1320
ctgacatgcc tgtgtcatat gatttacca ttttgtatat tatgtttttc atatttat 1380
tatattcaat ttagatgctg ttttctcatc tcac                                     1415

```

<210> 2804
 <211> 1663
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2804

```

actcgacta atccactgga ttggatctga catgtcgcag tgcttcaggt attgctcttc 60
aatgtgcata ttcacagttt gtattacatt tgggcagtta tctggagtgg gtccggaaat 120
tgcaccactg gtattagggc atgtatatgc cactcgccga agggcgtagc agatatcgca 180
ccggatgagg aagaaagtca tgtcggtaaa cccaactctt ggtttgggcg gctctttcgc 240
gtcgggagaa aggtctgcgt cgttgatatt caaggggagt ctagtgtcaa acatctggtc 300
atgaatttga acgtccgtcc catgatcttc agatgatcga aggtcaagta gaatgacatg 360
ccaccatagc ctgcggcgca tctcggcttc gaatggcttc aggtcgaagt tgttgccatc 420
ccgatgcaag ccgagtcctt gcgctagacg aagtacaaga gcagacatgg accagacaaa 480
tttagtatcg tcatctcgac ggacagcatt tagaaagatc accgcagcct gcatcagggt 540
caagctttgg gtgttcataa ggccggcttt agaaagtgtc tgctccacag caaacgata 600
acggctaacc aaggtgtcac gggcttcccc taaccgaatc atgcactgct cagccgacat 660
gctgacgatg gccgcaaat acatagcaag caccaacgcc tcgttattct tgtcgagagt 720
ttccggagtt ccggcagcaa cagcgaagac ccgctgggcc gctggcccat agaccacagg 780
caataacggc ttgacattct cagcataaat gtcccatagg gctggaacct tgctgggagg 840
cggatggaaa ttctcgaggg aatgtgcaag agaataaaat ccaaaaagca ttccgtcatg 900
cattgtagag taactagggt gttcgggaga ggtataatca tcgccgtcgg aggatgaatg 960
gtcaagaata tcttgcagtt cttcgatcta gtccacttag cagcttctca acaaacatac 1020
aaaagacagc tgagataaaa ccaacctcgt ccccgagact tgcccaaaac cgattactca 1080
cgtaccggct ccgattatct tcgataacga gtcttccaaa ctctgtgtcc aaggagggt 1140
gttagtcggg agtccgctta ctggacatcg ctggacctcg ggctcggact cattctgagc 1200
aggctgagaa ggctcaggca gctcgccgct cgagcgatca ctatgccgt gaagcggaaa 1260
cggctgagtg ttgggtatttg caatagctgt ctcaactata ttctcaagct gtcgcagccg 1320
cgacagcagc tctgcgtttt cagcaggagg ccgtttcaac ctgcgcgggg ctcggcctgg 1380
aggaggaaag atacactcga ccctgccct gacgcagtta gagcaggag atcttttgtt 1440

```

gcagcggacc ttcccttcgac ggcaggtgac gcagcttctt atggttaaag aatcgtgacg 1500
agaggccgga ttatgagaag ctggaggggc attctcattt ccattgtcca gagataaggg 1560
ggttggttga ggctttccag agtcagctgc aggctgaggc tgcggtgagg acgacatgac 1620
actggaaatc tagggttgac cgtgtcacat cgtcgatgta agg 1663

<210> 2805
<211> 923
<212> DNA
<213> *Aspergillus nidulans*

<400> 2805

tacaacataa caaaggtgat acggtgcgaa tcgtatgttt cagaaagcgg ccaccggcaa 60
cgctgtttgt ccagaggccg agatggcaaa agaagaaata aataaatata gtccaagaag 120
aggatgaagat gtaagaggaa aatgagaagg cttcacatga tgatgaggac aacgacagcg 180
acaaaaacag cgaagaagga acccttgagg actcgctcag aaggggctgc attttcgccg 240
tcggtgctgt catcgggtacc ttgactgaag gcgcctcctg aagaatcaga gctcgacgag 300
cctccgtttc cggctcgagga tccggcgatg ttaccagtac ctccctgggt ctgaggaacc 360
gtggagttgg agatggagcc agtagagttg cactgctgt cggttttgtt ggaaccgagg 420
tccatgttga ggccggtggc gccagagaa gcaagcacgg tattgttgtc ggtgatctca 480
acggagcttt ccaagccctt gtcgtccttg aagtcgtaag agacatcgcc gctgaccttg 540
gcgtccgaag gagggtcata gcattccacg gtgatgtcgc tgtagtaggc tgcgtagtag 600
ccctggttct tgatatectc agagtcccaa tcgatctcac ctccagocca ctcaatgggt 660
ccctgagcat tgctagcttg accggcgggc cagagggaca gctgcattcg ggacggggtc 720
tgggggtact cgtagcggtc ggcagtctca ttgaatgtag attccttggg aagagttcga 780
acaacctgcg cgtcaaccaa ccagtcaatc ttctcaggag tccagtcgat ctcgtaggtg 840
tgccaatccg cataagtatt cccaccgtcc accttggaact tgccgcggtt atcgtctaca 900
gaaggtcagt aacaaggttg gca 923

<210> 2806
<211> 2172
<212> DNA
<213> *Aspergillus nidulans*

<400> 2806

ttctcggggc ttcaggagtc tgttactggg aatcttttcc gtctgctcgt cgtagctttt 60
ccgtagtgcc aaaattcggt gcgcttcttc cagctgaaca cgtaactcca cagtgcgtgt 120
ccgaacggcc tgcacgtggg aaagaattcg ctctttctca gctacatacc gctcgcgttc 180
cttttcatta ctctgagca gaaactgtat gcgtgcgata ctgccctcaa aggccgcaaa 240
gtccagggat gcatcttcac gaaactggcg ccattcctca agcttctttt gcttttctgc 300
ctccgcagac gccgtagcat cctcgtcggc tcctcggggc ggaggcgtag ggagcgtcgc 360
gttcgaaata attatcgatt cgggattcag aaggcgcttc gagattcttt tgaaaggttt 420
ctcctcgacg ttcagcaggc gggctctgtg gagggcatct ggatggctga aagttaggtc 480
tgaaacaaat atgagcaggc aagaaccgac ctctgcccgc ctgatcaagc agtccgtaag 540
acgtcatgat ggatgtgctt atccgctacc ctgaataatt agcaattgat ggggggcacc 600
gcgtgtttcg cttgctcggc caccgagagg gcttgggtgt ggtttaaatg gagcggtagc 660
ggtcagttgc agttgcggtt ggagcaacac gctaggcgga aggtgactcc ccgtctggtc 720
tgaatactcc catgcgggtt gctctctcga actatcactg caaatctgct actattgctg 780
ctactgtcat taccatctt actcctaata tacgttttagc atactttccc aaaccccgtc 840
ggcatctggt ggctctattg gagcccagct ttccggtga cttcttggtat cggcccgata 900
ctgggatccc tcttctgcgt ccaactgtaat catcttggct ttccgaactc gtctactatt 960
gaaatccgcy catgccaggt cctatctcta aaacgatgcy aaccagggtc actccttttt 1020
cgaaccagga acctcgaata gaactccact gatgggaagg tctgttggtg tcgactcgtc 1080
gccctcgggt ttgcgccgtt ttccctgacg gagatgacgg agatgtatcc gggctctccat 1140
gtgggccagc ggtttgcac attggaagac tttaaagctc tggtagggag tataatctgtg 1200
cggcaacatt ggggaacttcg cgtgacggcg agcaacaaga agagtgtggt gataggctgc 1260
cggtcctcgc ccaattgctt cttcgtgtc gtttgtcgtg caaacaggaa cgcaacatat 1320
atcagcagtc ttcaggacag tcatagctgt cgacgaaatg cgacctcgac gaccaagacc 1380
ccggtcgtc cggaagcctc ccatgtgcgg ttctgtctca gtgagatacc gaaactattt 1440
gacatgcgaa acaaaatcaa ggcgcaggat attgttgacg cggtgaaacg gtatcacgga 1500
tacgatatat ccaactaggc ggcccaacgt gccctaata gacttcagca gaggggttct 1560

cagcagcaaa gcgatgcagc caactcgtca agtggggagg accgacagga gtctcagcca 1620
 ccgcctgtag aagggcagag tgaggggttca gcttatgctg gcattccggg tcagagatgg 1680
 atgcctgagt ctgttccgcc gaatctagtt gataatcccc agtcacaaaa cgaagatcca 1740
 ccaaataccta ccttttccgc tacaccttta cagggacagc cgatacagca acatccccag 1800
 cagttacaaa atcctcaaag gatacagtc acggttcaaa cgcaacaacc actacctcct 1860
 cctacaccgg ttctgcaagc gccagcgggt ccacagcatg agccgacgtc cctcaaccat 1920
 cccctacacg cccaagtaac ctcaacaaca ccttcctatt ctctaccaac accaatacaa 1980
 cctactcctc gacaggcagg gctcaccaag tctccgacac aaactcagcc ccaacctact 2040
 caaggccatc cttccgcacc gcaactagtt cttacaaatt tcaagatcga attctcctgc 2100
 accacgtgtg gtgctctcaa ccagagcttc tttcctaatac aaggaaacgt gactggcggg 2160
 cattacattc ct 2172

<210> 2807
 <211> 1038
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2807

aaccacatta tcagtaagat cactgtgctt ggaggagggc acacccttcc atcttaagcg 60
 tagaggccgc catccaccat gggcacgtgt cgagcctatg atgcctcagt gagccacatg 120
 tgattgtccc agcgtattac ttctaggtgc attctcatat agaatatgcc gccagaaaat 180
 cagctgccct cagtctgacg atcttaagag gttggccgaa acaagtataa atcacatgtg 240
 tcgaaatgac tacgtcgttt atatacagtc acctgtgagt gagcactgta gcgcagatta 300
 gccaaggacg ggtgctgagg ctctaaacca gatattgtga tgctcattgt taacgatgtg 360
 tgaatatcca aaaatatcca aatgtcgtta tgtcatgcaa gagaaatagg tcaatatcga 420
 caaaagaaca gagagtatgg acagagtaag atcaaagatc gatcgggtca gaggggtactg 480
 cgtccacttc atcttccagc tcatcttcag tgagaactcc aattccactg tcaatccgcc 540
 tgcgatgctt tcttcgacca atctctacgt ccataaaccg ggatcatgctg acaggggtaa 600
 ttggctcgct gccaatgcc ttatcatccg actccagttc atctgacttt agctcccaat 660
 tggcgctccg taccttagcc tggcgacgct cagcgttgac tgcagccttc atcgatgcga 720

acgcccgtgt ctgttccgcg aaccatttat ccaacaggcc atcctttgct tcaatctcca 780
gtcgcatattg ctctttgaga cctgcattgt agcgattgag tttctcagct tctgtcttgg 840
ctgcttccag tgctgtgttg agttccgcaa tacggacatt caacaagccg gtctcccggt 900
cgtggtctgt aacgtttttc tccaagtctt cgacagcttg ttggcgctca cgctcaatgc 960
tttccatttt ggctgtgagg tcacagaccc gtattctgtt ctgctcaata atctcctctc 1020
gctcgcgaaat ctgctttt 1038

<210> 2808
<211> 2291
<212> DNA
<213> *Aspergillus nidulans*

<400> 2808

cttctctgggt agacaggtga cggaagggga agttggaagg aacatgttat ttggagctgt 60
atgcggggcgt gggtttccct aatcactttt acattgatta cgccctctac aaacactact 120
ttccaatgat ggctctggga cgggtataaaa ggctgattgg agctgtatat gatgggtattt 180
agtactatgg gtttccgatg tttactcaga ctggacatgt gcgtgtctta cgagtactat 240
gagtattaat ctcaaaggca aatttactgt ctctctcgcg ccactacag gcaaactact 300
tagtctgctc tcttttcgga acgtgaatta agtaatattg agatgatgtg cctgaagggga 360
agcaagaaag cacaggtagc tggagtcctg gcaagagata ttccgctagc ccgggatatt 420
gatcggcatg cagacatgtc caccctatta aacctagtga tgatgttcgt agcacttggg 480
ctgtagggag tgtaaacatg cctcctcccg aagcagctgg aggtttgcgg ctgagacgag 540
agggttcgcc gccgcaggga ctggagccca taggctcgtc aacgttgacc ggccgtttga 600
gctgttgtct gcaatccgat tgggtcatgt tggacttggg gatggcatcg aagtcattgc 660
cagtgagcag ttttctctgg gctgttttgt ttcgttcagt tcattctctc tccccttggt 720
tttctgatat ctgccgtgc tgtcttccag gtcttgtagg acaaggaact cccgcgaaca 780
agcgcacgct tctcactttt gactgtggag accgtggcag taggtgttac ttcagagccg 840
agcaatgtca cagtcttatt ctgcatttcg atccggctcg ggccctatgg gagaacgagc 900
tttcatccaa gatcagttat tctgctagtc aaccatttcc atgtaatttg agtgagagtc 960
tagctaactc tagctggcct gacttttgta acaaaagcag acagccaact gtgcttacag 1020

tccttttgta ggcatttgtt aggtcatttc tgtggatgac tccggttgag acggcttgaa 1080
 gaaggacata tatgggagtg ttaatctata aattttttaa agttgtataa ttaccgtaac 1140
 atccataatt tccatgattt cccatgtttt tacttatttt tatttttaat atataattat 1200
 tttgaaaatt tgtatgtata cgaacaactt accgccgctg gtctcctcca aaccaatat 1260
 ctacagtata ctgacatcga ttctctctat atacttgccc ccatacgtca acccgcat 1320
 gccactttgt cctggaagct tgggtcatcc acggtgtggc tgctaaaatt ttcccgctg 1380
 acccataata aagaacggtg caacccccgt ctcttgctga ggagccgttt caaagccgct 1440
 gggtcagtag catcccatta tatctcagc aactgccctt cgtccccagt agtgggtatag 1500
 gtcagtgatc tatacagaac agaggatcag atcattttag aggagagacg cgtgcgggtc 1560
 tccaggactg gatctgccgc cagcgaatc agcccaccgt acttttagaca aaagtattct 1620
 gatacgtcgt cctgagcgtg ggaactccac tgttcacga aacaaccact aggacgggtt 1680
 tcatagggca gttcctgact gtaggccccg ccagggccct cttggagggc cgaatacccc 1740
 tggcaaacgt tttaacgggg tgctgagcat tgactctttc tacagtcttc aacataacca 1800
 gcgctgcat ggacataatg ctcccacact ggggcagctg cctcagaac ttatccttct 1860
 catcgccaaa catctcgacg tcccgctctac caatttcctg ctacagactt gcctgcgctt 1920
 taacaggctt ttgggcccgg tgctctacaa actcgcccgc cggtatcgga gtgtgcctgg 1980
 cgctggcacc cccttgatct gggctgttaa gaccaaccgt ctcaatgtga tggaaagggt 2040
 gctttacggg aaaccatggc cagctgataa cgagaatggg acgacggctc tgcacgaggc 2100
 cgtctatgcg caaaacgagg acgcccttcg tatgctgctc agggctggag ccgacgtctt 2160
 cgccctcaat gctaacagag aagcggcatt gcacgcggcc atcaagtgcg aatacgtact 2220
 cgccgcgagg ttgatcatcg gtgtataccg actgttatgc cgtgggaaag ctacgcgtgg 2280
 cactggaccg a 2291

<210> 2809
 <211> 1358
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2809

cccgagttct ttttaatagt gtcttccaag catgtcacca agcgccctcaa tgactccgca 60

ggaacttgca agaatctttc aacaccctga tttctcgggt cagcatccga ttgcggcgggc 120
 agcagtgcggt gtgagctatg cggtttcgta ctgccagggc atagagcagt ggaccggggca 180
 gtctctggta tgtccatgga atccggagat ataggctctt ctggttccgg tgacgggtgga 240
 aggctcgggt gctgggtgct tgaatgctct tcggaaggca gagcagcata caacgatttt 300
 ttggtcacat aaggcgagga ctgcttggtc tcgaccagat caaacaagct accaatactc 360
 tcaacgtctg actccgcgac agacacagct ctgtcgggag ctgttaaagtg tgaatcctcc 420
 tgcttctttt gtctaaacgc agggacttca tctctcaaaa tcgctcgagg gacgaagttt 480
 gagatgtatc ggtcagattg tactgtctta ctagagacag gaggtgagca agccctgcga 540
 gtaggctctc tcaaaggcaa gaagtcagac gcctcttcgt cactctttct cttctttcct 600
 cgcttggttg tgaggttcgt cctaggagcg gcgtcttcag tctggcgccg gtgtagctca 660
 tcaaactcct tcttaatttc ggacgatagc gcgttagagt cgaagtcttc agtcaaactc 720
 attgtgtcaa tctctgaaa cgaagacggt atgtctagct tccgtttcgg ccgtacgggt 780
 ggtatcgctt gctctttgcg atctcgaaag gatggaatcg tactgggaag ttctacgtag 840
 tgtcgtgcat cagtcgatct aatatctctc attatgttgg cggaggagca attgtacctt 900
 caaccatttt atttcgagga gtctggctga cttcctgtct tacggacgaa cttttggagg 960
 ccttgcgagc cgagttatgt aactcttcgg cgctgagcat ccgtgggttg cttgctgata 1020
 acccgtgata taacattagg cgcggcatat ctttgctcga ttcgatatct atcacattgc 1080
 ccgcagggtc attgatcgcc gattcgagaa taggctgcga atccttgatg ctgagctctt 1140
 ggtggctctc aatcaaattc aagattggga ccggattgtt ttgagagccg gtcggattga 1200
 catgggtgtc ccacgcgagc ggtgtcagaa ctggatatag cgacgggcct tgatccaaga 1260
 gccattaaaa atgggtcttc aaattgcttc tagtcataga ggcgtgtatc tgtgggcatc 1320
 ctttagcaaa tctcgagggg ggtcagacga gctcgttt 1358

<210> 2810
 <211> 1424
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2810

ccgattagtt gtgactatgg acaatgactc gtttgaaagc accgcagagg ataaggcgca 60
 tcgaagttac ctcgatcatca gaacattgca caaaccgagg atcaaaagcc atctgaggta 120
 gagatatctc tatttagaca aaacaccgaa tagactgcta taatacaatg gacacattat 180
 gagacataaa tcactgcttg acctccgact tattcaaagc tgccttggcc ctttgcctct 240
 cccgttccat ggctgcccga tacgcctctc tgcgggcatg gttacgctct tcccgcctcc 300
 aatcctcctc ttccttgccg cgtctctcat agtctccggc cagcttacgg tccttctcgc 360
 tgagcctggg cggttcagcg agtgaaccat cggcgcttct ttttgggcc tggccgctca 420
 gctcctgcat tttctgggtg gtctccttgg tgagcttctc cttggattcc ttgatgttgt 480
 tgatggcacg gtcaatgaat ctgatcttag gttgctcagc ggcaatcttc ttcgcctcgt 540
 tgagcttggc gttttcacgc tctaattgct cagtgatcaa gcggacggcc gtgttggtgt 600
 cggctgggtt cgaacctgat gggtgcacag gggtcagctt ctcgatgacg gtcattgccag 660
 tggccttacg aaaggttgcg tttgcgaacg cgtaggcctg gagcagaccg aggaaaccgg 720
 tggtgaggaa gtacgcttgc aacgcagcag ggaagaaagc tacgaagaag aaagagaacg 780
 caggaatgcc gtacatcata cccttcggga ttgtcgccat gtcgccagac atgctgcttc 840
 ccgtttcacc tcctttctat acaggggcca attagcaatg gactcagacg tatgtggggg 900
 gccacgtacc ctaatactta gatgaaggac agtacagcag agaatgggga ggatataggt 960
 cggatcagcg actgtgaaat cattgatcca cgcgaactgt tccgcagcca agccgggcac 1020
 aggcaaaccg gccataccct cgataacacg gaagcaaccg aaaccgatag ggagctggaa 1080
 tactaacggc atgaacgtat tgcgcggtac gataccaaga ttggcggttg tcttagccat 1140
 ctccgctctc cacttttgtg cctcaacctg gtttcagaa cgagcagcat tcaacatttt 1200
 ctctttaatt ggcgcaagaa taggttgccg gttggccagc cttgcaactg tatctcctgc 1260
 gcgcaaaaaa agaggtgccg tcgcgagggc ctagcagata gccgtttcga tcctcttagc 1320
 atgtcatgcc agcaaatagt tactcttgat cggacagttc cagtacctcg agttagcagt 1380
 cggagcgcca ccgcactgca gtcagtagat ccgaagctng ggtc 1424

<210> 2811
 <211> 785
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2811

atcgtggcaa atccgtttgc tgtacaggtc gtcgaatgta tgcttggggc gagaccgcgc 60
ctacgcttct acagtgcgaa cacagcattt caagccaaag accggcagcc agtccatata 120
gatgtggatt tcaactttcc aatgattccg tgggggttacg ctatcaacat caacctcgtc 180
gaaacgacgc ctgagaatgg ggcgaccgag gtctgggttg gcagtcatac tggtagcagc 240
agggatgtgc ttgatcccaa acatgggcac gagcggatca gggagaagct actcgaagaa 300
cgccggaaga tgggaagagg tggaatccag ccggaaggt tgccaaaggg gagtctggtc 360
atcagagata tgaggctttg gcatgcaggc atgccgaatc agacgcagga accgaggatc 420
atgctggtga ctattctggt ttccatttgg taccggaatg accagaaaat catcttaccg 480
gagagtgtaa agggggagat tgacagatgg cggggcgctc atgctgctgc ccagtgggta 540
gaggaagggc atgactatct gcagggaagc catgatcatg attttacgtt aaggccatag 600
gcattccttt cagaaccttt cgtggctatt ctgagtcgag tgggaatcat aactgcagtc 660
tccatagggc cgtcatcgtc cacctggacc taatacagat gctgaacgg actcgccggg 720
aaatatgggg atcagctgag atgttaatgg aactgcccac tctagacgt ttgcgtaaat 780
tagct 785

<210> 2812

<211> 2119

<212> DNA

<213> *Aspergillus nidulans*

<400> 2812

gggccgtaag aaataagaat tttagtattt aaggaaggaa tgagatataa ggatgagtat 60
gatattaaag tgtgaagata ttaagagata atataagacg attgaaatag taaagactaa 120
gccacaggat aacaagagta gaaaaaaaaa cagaaaaaga ggatataaag gaggatagaa 180
taagcaagat ataacaatag agggaggagc taagacggac gaatatgaca cagtgatatg 240
ggtgattgca aaaaactgta ataaaagaaa aaggataaga caaataacgc agtatagact 300
tatgcgaaga tgtaatagcg ataaaggaag atttggagac agaaaattag gaatgaaaac 360
aagttacgca tcatgaagtc cagtatttta agaggcatct gggaacaccc cacaatgaac 420
ttaagtcctt tccgtgcaca atgggtccag tccaattaag cagcataata tgtaggtcga 480

aaagtgtcaa tagtcaggcc cacgagagct tcagctctag atcagttgta agcggtaaat 540
ggctctttat aatcccgaca ttaggttcaa agtagtggaac aaatcaatca agcgtccccg 600
tatatacatg ccatccggg aacctacgac cccagtcctt ttctaacctc ctctctgacc 660
ttccgctcat acgcagccct ccgttcctc cacatcttcg cagcctccac atttgctggg 720
ctttcatcat tcgggtccgc tagcatactc attactggga tgagaatctt ctccactctt 780
tgtataggcg accagcgctc cgaggcatgt tcatagtggg tcggatcatc gccgggtggg 840
tgtagaatgc agatgcacac tgtgccatcg ggatagactg cccaacggaa cattagccga 900
taaactctcc ctttcgttca aacgaaaaga aacatagagg tcacaactca ccattcgcat 960
gccaccttcc cccgccgaca aacttcattg tcggtggact taaagggtaa tccttagggc 1020
atttgagctc agcagcaaaa accccacctt cgtaaggggt gccttcgggt ccctgtatca 1080
aggcttccca gtgaaacatg tcctcttcag agacaggccc cgcggtaatc ccatccggcg 1140
ggtttgttga tagtgtttta tattcgcgga aaaggcgatt ctgcgtcatg gatgacattg 1200
tgggcgtact aggtgtatag atagtaatct attacttggt caggtctgtg gaaggataca 1260
caaagagcaa cgtgatggtg gtgcggagaa gtcggagtag tggggaagga ggagggttga 1320
cttgatcgaa aggactggac cgaacaggag aaaggcgga aatgcagtct ataagaatga 1380
aaaatcggga ttagaagtgg acctatccgg tgtgaaccct gtggcaagaa ctcgatggca 1440
accctgagga gaaaaggatt aagatctgat atcgtaaggg tcgaggatcat tgccactcgc 1500
cgtgtttatt cgggagagca tattgatgcc ttaggcaatg ttcacttttc cagaagtttc 1560
agcgtcacct agatctagaa tagataaaaa agtcgtgtcc cttgaaaatc gctaatagca 1620
gctcgttcag atgattatag tacattgcct cactgtctat ttgaaaata tagtaatcta 1680
gaagaagtca gaccaatcat tcccatctc cccgtcacca cctcgtttc cgtcattgtc 1740
tgaccagtgg tcttctgaag accagctgtc attcctttct tctggtgtcc actcatctcc 1800
gtacggccca gttggagcat ttctgacga attctgtctc atatgcggtt gcggttgtga 1860
ttgcggttgg ctggccgtac tagcttgctg ttgaccttgg gccgttgac ctctggacat 1920
cgcatcatag cctgcgattg tacctgcgcc aatggcacc cgcagcgcg cctcagccat 1980
acctccagcg gcgcctctcc caacggtccc ggcggcagct tcgcctacag cccagcctc 2040
gcccgcggca ccaccagcgg caccaccagc tgagagatca ccgccaagtc cgggaaacca 2100

cattgggaaa aaccaagg

2119

<210> 2813

<211> 933

<212> DNA

<213> *Aspergillus nidulans*

<400> 2813

tacttcaagt tcgactacaa tatcgatgtc actcagggga cggatatcag cacttccagt 60
ccaggagcag cgcaactcga gcataaccgg gcatacttga cgtgggtaaa tgaactcttg 120
gatagatata ctggcctggg ggttgagaat tgctcgtctg gcggacaaag gatggactac 180
gccatgctgt ctacacatcc catccagagt agcagtgatc agcaggatcc tgtaaaatac 240
gcggctatatt ctgcagcgt accaactgcc gttacgccag agcagggcgc cgtctgggta 300
tatccgcagc ctgaatggga tgacgagacg aatgctatga gtgttgatga tgcgctgcta 360
ggacgtgttc atctcagtgg aaggctggat ctgctgagtg agcaacaggc cagtcttggt 420
aacgagggca tggatatcta taggagtata agaggggatt tgccgaatgc gacggcggtc 480
tggccctctg gtttgcctgg ctggcacgac ggatggattg tactagggat ggcggtggac 540
gggggtgaga ggttctatat ggctgtttgg agaagagggg gcttggacac agtagtcctc 600
ccagcacctt tgctgagggc gcgcgacctt aaggctgagc tgctttatcc aaaggcggtt 660
gcgacccatt ttgagtggaa tgtagcagag ggttctctca gggttggatt ggcatcaacg 720
ctttgcgctc ggttattcaa gttaacgggt tctaagtta gcatgtaagt ctttccaaaa 780
gtctcatgtt aggtgaaata caatcgctt tgaaaatcgc tctctgtagg ctataatctt 840
gaccttgtga ataggattct tctaagttca gtagtatgct aaaaatataa aggcaatgta 900
ggatacaagg ggctactgga gattacagga gtt 933

<210> 2814

<211> 1427

<212> DNA

<213> *Aspergillus nidulans*

<400> 2814

atctgatgac attttatctc tcttttcgtc caccattttg caccagccct ctcttgaaca 60
gcatagaaag taatatagcc ccttgtgttc gcagcacagc ttagagaggt cgtaattggt 120

aagataggtt gccagctaaa gtaaaactata taaattatat aagcagttct gccagtttgc 180
taatacgcca atctcctata atgcccattg gtttacactg caatagtggc cagccagtgt 240
cttctatcag ttgcccattg ttgcacccat agcctgatag tcccatcacc agatgcagag 300
ccaatctgct taccgtctga agagcgggtga ctacataaga ccagaaaccg ccagaagacg 360
ctaagagggg ccaagtcgcg atcattactc gaccaattcg ttcacgcggc cagatccagc 420
ccttggcggg ccatcgtgca ggcagtgtca attatgcgta ttacagaaac agcaagagca 480
gaagctgact ttgggagtgg ggggacaggg tatggttggg gtataatata ctctgggata 540
ttgtcaccaa gcagacaagt tgaacaagtt gggatccatt atatcagcat gggcttcttt 600
agatcaacct caaagggttt atttatatct tgaagacgag acataaagag cggatagagc 660
aactgaggaa ttttttgatg ccaatatctc tccaggatag atctgctgtg gttcaattgt 720
gatgaactga agaatactgc gtgatttatg aaaagaggtt tccacaggac gagctattta 780
cacacgatag ttcttgggat acggagatcg ggcttttcta ggtttcaatt tagagcgaaa 840
tgagatatca acaagccaga agaatacagg agcggctata cggcaccggc ttgctaaagc 900
tttattggac ctaaacgagc tcttaaagta acatgatttt ggcacagttg aagagattta 960
aatcgggaaa tcaacggcct gccatctcgg ctgagccgat caacatattc tattcttcat 1020
cccactaaaa taattctaca tgaagagaat gtctagatca actaactcag atggggaacg 1080
atggcagcca tttgctgatt ctatcataag gcctggccgt tgtctgcgaa tcatacactg 1140
gcgaatctgc tgggctatac actgaccgat ggacagcggc gagtacagcc tgtacggcga 1200
acgaccaggc cttatatgtt attccatcca gtatgaccat agacctcctt gagtgctact 1260
attacaacgc attctctgat gcttggacta taggtttact gtgcgggggc cctccaacag 1320
ggacctgttg ccaattgcac ggatgacgga tcccgctgat tcttttgcac cgtccgacac 1380
aatctcacat ttagtggaca cagccgttcc ctatgcaggc ataacc 1427

<210> 2815
<211> 719
<212> DNA
<213> *Aspergillus nidulans*

<400> 2815

tcccggttcc aaggtggtaa ataaaataag tcgtaggcag agtgtagatc tcgccttata 60

gccatgggcg gtgccaagaa gtcattccac agaaatttct ccaccgcaa aatcaaatca 120
 tctcaactgc accagacttc acctctgcct tcttacctct ctctccatcc catcacccgc 180
 catgcccgtc ccttcaacca ccttctgat cgagggttcc ttctccgaac tcgcccagga 240
 atttgctgcg tacctcgatg ccttcaacaa gcccgacgat accaccgttc agaccgaggt 300
 cgccccgtg ctgcaacccc tccgagagca ggaacagaat gatacccagc ttgatcagag 360
 caagcgggat gaggtgctga agaagctggg ctggcgccgc actgtgctca acacggcgcc 420
 ggagaagggg gcgcccgtca ctatatgaaa ttgctggaat cggattgcat actgattgtt 480
 ttgagccaga gattacaccc gcttacaacc tcttgatcca cctcgctccag caggcctccg 540
 accctgacat gttctctctc cgcatctgct catacctcgc caagcccatc ccttctcttc 600
 ctacgttcgg tgctctctct tccatgccca tctgtccac catcttcaac aactcgcgc 660
 ctaccgactc cagccgattc cagcttctct tggccattgt caccgtgacg cgccagtct 719

<210> 2816
 <211> 1808
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2816

caatctccat atttcgggcg cagcttgaag atgagttgag gaaagaaagg tataaaataa 60
 taattgagtg tgtgactgtg aaccagcgcg gactccacaa atgtgagtgc agtaagtgtc 120
 ctgcataaag agttagagag agacttccac agctagaaag gaacatacct ggcaacagga 180
 gggagagccc agaagtcacg cattgctgta aaataagtac tcaaaggacc ataatcgagg 240
 ttggaaaagt agtcgaaatc actcaagttg gcgacacctc attctgtgtc cgattagcaa 300
 cctgagattt gcgggagtca actatagatg ttcaaaaaag aaaggaaaaa aagacagact 360
 ctacttaggt caaaggtgga tatttaagcg actgtctggc ctcttggtac atcattcttc 420
 cgttccgcta gagcctcgtt gaccacagat acatagcgca ccagcacaaa tgcacaagtt 480
 ctattcgtac tgcattcagc acgttttctt caaagtatat gccaatatac gcggatacat 540
 agtcggatat aaaataaact aatgactgag atggccgttg aatattagtt tctaaagatc 600
 cccagagggt ctcgtccgta ctatctatgg acaaacctct caaacctcga catgccatgc 660
 gactgaaagc acttgcagca gctaccgcaa ggcaccaat tcaagtacgg cggcagtacc 720

tgagtctcaa gcatattcat tctccaacgc tgcctacgcg agcagtgcc ctcacagacg 780
 tccccccatc tttcccctca atccatacat cccaagagcc gtctccagta gacttttggtt 840
 tcccacatat cgctatgtcc tcttcaacgt agagcggagc atgattcttg taggtaatat 900
 cgctgacaga aaaacctctt ccatgcagat aatgccgaag ggctgtaaga agcagtgtta 960
 acgtcagagg accatgaaca agaagggtctc gatagccttc gacatcgcta gtgtatcttc 1020
 tgtcgagatg gatcgagtga gcattgaaag tgagtgccga aaaacgaaag agcaaggctc 1080
 tggttggctt catctgatag cggaatttcg ggtccgcggg agctttgtga ggngcagtga 1140
 gggttagcga tgctactgcg ctccatgaca ccagttaact ctacacacat ttaatagtct 1200
 gggggcttga gagaacttcg ccttgtcttc gtccagctga ttgacagtct tgtctcgcat 1260
 gaataccaaa tccctgttct cgacgattga tgcgtccgct ttcattgtct caccatcact 1320
 ccatattcgg ttctgatct ctttttcggg ctcatcttc tgcacagtgc ctatttgtct 1380
 ctcgatcttg actattatct tctcgctcnc aggtcgccct ttaacgatga catcacggat 1440
 accttcaata catacggcgc gacccccgtt gagcgatagc ttattgttga ctgcgagcct 1500
 aactctaccg ccagcccata ggcgcctatt gaagggtggc ccaggagcat gcagaatgtc 1560
 ggttccatcg gccagaagct ggcagagggt atcttgttga gggaaataga caatatggtg 1620
 agccgaaggc aagtaggagg ggcctcgcac tgttgcaaga gtttgcaat gaggaaaaac 1680
 atcaagcttc gaaaacaagt ctttgaagga caggaccacc acatgtgccg gttgaggttg 1740
 gaggtaaaca aaagtcaatg gaagttatat gcatgacgat acttggtcca cgcgcgccgt 1800
 gttcatat 1808

<210> 2817
 <211> 1193
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2817

catgttctgg tctctcatat gccttgaagc tactggaagt gcatgcttca ttacaaagta 60
 atagcgaact ggtccaggaa ccctttgcct tgctggcgcc acgaaccggg ttccatagat 120
 cttggcaagt gggcgatcat atcttgcaac ctgcaggaac agcgcatgaa cagtgcgggt 180

ggggtaagcc gatctatcta cggaatactc gccttgagtt ggggccggat atcggcttgc 240
 tgtgatttgg tggataactc gctagcaggc ccaggtagcg ggatcagacc aaggcgccgc 300
 aggggacaaa gcaatagccg atcccagaaa cgcagcaggg tgctgacatc aaagctcgtc 360
 tagtagggcg acagagaaaa catccagttc tttcgtcact tgctcgtaaag ccatggcttg 420
 ggcgtagggc cctcaagcct gaaagcaggg atccttatca gtaagactgc tccagagacg 480
 agaagatctg atatcaaata agatccatta accaagctga aaactctaga ctatttcagc 540
 attgtggcca ctaatcaacg ttaaggatca cagctgatta tggaggagct tttgcagctc 600
 actggagctc cggagtagcg atgatcatac gagctagtca ccgagaaaaa ggaacgaacc 660
 attagttcaa tccactgcc a ctgacatctg agcatccatg cggcaaatgc ggagaatgca 720
 ccaaaggggg gcagatatag ataacctcgg cctcgaagct ctgagaaata aaaactgata 780
 actgataagc cgtcatgctg aagcatccaa cagcagctgc tgctgaccga cgatctgggt 840
 gacagctcac aaacaatttc tgcgtatccg cgattatgac ccgagatcgt cgccaaagtt 900
 gtgggtcttat tgggttttag aactttgttc atgttttctt tgcccacatt gagtacgggg 960
 catcttgcac gctgaaaata tagttggcgt tcattgtgat tgactttcaa ctcatgggt 1020
 attcgatcaa taggagtatt ttacaggctc cactgaaaga tatgagatca ttacgtaaa 1080
 tgaagccata cactgtatgc tggttatcag caagagtcaa ggcggattga accaagggta 1140
 cagaatccgt cggtcgaccg gantggtttt aagggacggc aacaacagac tca 1193

<210> 2818
 <211> 1519
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2818

aaattgcctc cactgggggtg tacaaacttt atggggaaaaa tccagccgcg gaagctctcg 60
 gctacgtgcc caagaatgca ttctttatta aatgcgctgg ctgcgagatc tctgtgttta 120
 cttctgtaga gaagcatcct ttcagggttg aggggttgca accggacctt gactcgccga 180
 aacgcgtgaa acgctgctag gaatcttggc cgtccgagag atcttgaagt tgggtgtacgt 240
 catgagatat ttcatagcag caattacgac atactctctt agtcgcatgt atcttgacct 300
 aataccaagg ttgaccaacg tatatcatct gctagtagtc cgtcccaata taccgtata 360

cggcagcgta ttctctaggc tgatcacccg aacaaccgag gtggcaacca aggcagggag 420
 ggtataaagc acccacccca tgcaatgcat cgcattgcat gatgattgca tgcagattga 480
 ttgcaacccc gagtaaaaag catgttttcg accccgtcca gtaccgaaga atgacaacgt 540
 ctgatttcgc agctcagcca gatacccttg tccgagcagg gggttcagttt aggcctgcgc 600
 cgcgactact ctgtgctccg ttgatctgga ggaggcctag cgttctgtaa ggtatgatga 660
 tagtgggctt gggagggtcat atcaagccgt agtattagta cgaccaacac cctgtagcat 720
 gattaagcga catagattca gccattcaga actgtcagaa ggttaatgat ccgcttccca 780
 tcttctgacg atcacactat catccatcac tgcgcttgca ttcgcattgt cggcgcacatca 840
 catcaagccc gatccccgaa gttattccgt gctaataaat caggcaagat tctgttccct 900
 tcaacatgaa agcatccatg gcttccagca tcggacaaat cgacctgcta ccaactaccg 960
 actaccgact taggtgggtat gatatcgaag ggatattaca ccacaatgga ccgggttaat 1020
 caaccgcaca ctccgtccta ctatattcta cacataaatt gggatatatc agtatgtcac 1080
 aggacatggg catgagggcg tggagaacaa actccaggtt tgatacttga ttctgctgca 1140
 tatactgcca ttctataata tcttgaaaac aaggggagtg ggggaccctg ccatacaagg 1200
 gagccctaga tgctcctcta ggggtgtagc agattccgaa aatccggaca ctgccaccaa 1260
 gacgcagcta aattacccgc ggtcaacagc caccgaccat acatagtaat ggcagacctg 1320
 aattcttccg atgaatatca gtgcagccca acctccaaaa taacaaaaca gggcgattgt 1380
 agacggcccc tgccctgga cgttgcgctt tggaaataaa cggaccgatc cgcttagccg 1440
 ttttgcgtag ttagccgttt ttcgtatcca tggtagatcc caggcatagg 1500
 tggataagcg gaagcggaa 1519

<210> 2819
 <211> 1326
 <212> DNA
 <213> Aspergillus nidulans

<400> 2819

ttcaagaacc ttgtgcgaga tctgagcagc agtcttgtac ttggttaggg tatcgggggtt 60
 gttcaagggtg tagtctacca gcgatcaaag ccatgggttag ctgtgagcat tgcgacaatc 120
 agataaatcg cagtaaatac aagagtgtat aatttagctc aggaagaatg cgttcagctt 180

ttgaggccac atcagtggcc gcaggtcaca gaggctctgt tctcatccag ttgatgacgc 240
 cgacaaagca agcgggaaac ccacaaaacg cggacgtttt tcgcaactaca gaatgagggg 300
 tactgcttgg gcagttgaca cttaccaacc tcgggggtct gagtctgggtt ttcagccatt 360
 gtgaataatt ccagtctacc tcacacagcg cgaggagaag acaagcaaca agcgcaaaat 420
 cagtcgtgcg gaggagatgg agggagaaaa ttagacagcc tgggtggacta cctatggagc 480
 tggagctggg cggtcgtgtg cactggtgag taataatgaa ggcggggctt cctgccgtgg 540
 gctcgcaatt acatacgggt tttcttgcca gccgtcgccc taagattccc ttcgccctac 600
 gcgcttgatt taccatgtac gtcatgcatt tcgggtcccat tgctcctgtg actagaaatg 660
 ctacgctctg tttcagattg ggattctgct agttcgaatg ttcagagagc attcgatgat 720
 cattgcatgg tcaaataccg aatggcatta ttcaggagaa tcatggatcat cagtgaacct 780
 ctgcgcccag ggtgatttct tgcgggcttt tagatgcgga tagaggattt tcataaactt 840
 aagggagaag tgtcttttgc ggggttctct tatccattgc aagggttctt aggagatctt 900
 ggtgtttcca gactcgggtt catttatagc gtacgttagc taccttgccc ttttttatat 960
 gggaattcat ttgttaagtc cttttgcaat tttgtaacc ataacatttg gctggttact 1020
 tgtggtgctt ttggtatata ctggtttgcc ttttgtagc ctttaatatg tctccattag 1080
 acttctattg ccaatctttt atttctcttc tctttcgtat tttactatct ccttatcgaa 1140
 ccttaaactt tcttttggtt ccttttctta agtctttgca atttaggggt atgacatatt 1200
 ttgctaatac tacataatat tttgtcaatg ttttatattc tatttggtga tctcctattt 1260
 tatcctgctt gggtatatat tgtgtgttaa attttctatt tgctctcttt ctttatttta 1320
 taataa 1326

<210> 2820
 <211> 825
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2820

agttgccggg tgacagtaga gcaaagcatg aaccctctga aaatggaaag aggaaaaacc 60
 ctcaattgat ggccggtgaa tcaacccccg cggattacct agagtcttag gtgagagaaa 120
 agacctttgg ccataatat gtcattgag ccaagtctca tggtcgagtt acaaccgaac 180

tatggcatag tcgacgagaa tcctaaagcc aaatgtcacc tcctctcaga gcaattctgg 240
caataacatt atgcggatat caatgtgcag ctcttcatga tatgcgctga ctatttcatg 300
ctaatagggtc cagtcaattc ctttgtagcc attaattgct ccaaagtgtc gatgggctct 360
atacaacatt cgcaatgtaa gacccgggtc aaatttgcca gaacttgtca aagtggccag 420
cagcataaag gcccgcatgg cccttcacgc gacagttgtc accgagaacc acgaattcgg 480
gttgctccagc tccgggtcagt gttggcaca gacggggcggc ctgctcgagg ccttccacat 540
cggtaaccca cacaactaac tccaaccctt cgttaggcag gggtcgaagg aacatcgcac 600
ccattgcccg ttcgtagtta atggtatact ggccacaact cctgcttgaa cccgggtcca 660
tcggtccatg caggcccccct ggaactgaaa ggcacatatg cagagtcatg cggccgtcag 720
aaacacgtat aggggtatgac gaatatatctg aaccggaagt tcattcccta acgagacggg 780
gatagcattc ccgtgatgtt ctgcatcaaa tgaaccgcaa tgtct 825

<210> 2821
<211> 1805
<212> DNA
<213> *Aspergillus nidulans*

<400> 2821
acgctgagta cctctcacag gtatacaaag ctcaaggact caggaacctt ggctgctctt 60
ttctccagcg ttaacttcaa ttccacgcga ctttctctgg acgacgatct tcaggaggca 120
acagaagcgc tcaacatttc cacagcagag atagaaaagc aaactgatgt ttgacaacc 180
cagtatgaga ttttgagtcg acggcataaa tgcaacagca atcgagtatt ccaacaaaac 240
agggaggtgg aaagggtacg acggaagcat gaggcagaaa ggcagaatac agctgctacg 300
gtaactgtct ccggatcctg atgatcatat gccactgcta agaagtgcac agattagcga 360
attggcacac gaattagaag tcggtctcaa gaatgaagca gagaaatcaa ccacggacgg 420
gaaaaaata ctggccgctt tgacggcgcg gctgaaaagc aacgacagat tactatcaga 480
cctggagggt cttgcatcag gagtaaagtc ttctgacggg gaggtatcta tcatgaaacg 540
aacaacagaa ctgagcagta tcctctctcg atatattgcg gaagagatat actgcagact 600
tgatcgcttg tacctggaga aagtcctcaa cgatagcaat tcggccccag gcgccacgac 660
tgataaggat ttggagacag cggccagtct ggagcaggag atagattctc tctatcccga 720

aattgatatc ttggccgaaa tatcaaccaa gcaacaatat gttgagccta tactacggca 780
actccaagaa tatcatggcc agtttcgcat cgctgtcat aaaaaacttg accttgtaag 840
ctcctccgtt gtcttgtctg ccttgccgct taacctgacc ttcactgtag atatcaaaaa 900
ttattggaga catgacgact tctacagaaa accttatcac aagcctccaa gaccggaat 960
cactctgcgc cactcttgag ctttcgcata tacatatggg tccgaagtgg tgacatcatt 1020
ctggactcga ctagctcaag acgagagaca atgagaaggt tttccacgca accaacagca 1080
ctgacagttc agcccggaa gcaactctgt ccatgtccag actcaaagtg ttttaagtggg 1140
ctctacgccg cttgggcctg tcaaccgagg ctgtcttcca ggaccccgaa gctgtaggag 1200
gagtccaagc cttaataaag gcacgaaaaa acatgcttga tgggctgcac agttatggca 1260
ttgccagtga ctcaccactg acggccgaga tgctgccgac agaccgggca actaggcttc 1320
ttacttcagc gcttcaagcg gattccttgt tcacaacctc tctctcgagc gtggaacatg 1380
agaaaaacct ctcagagctc gagtccaggc tcagccgtat ccagaaaggc atcgagaggg 1440
tcaagcttga cgttgtctat cagagggaca aggaccagga aaagttcctg gaaaggtggg 1500
ggtagtgtaa gaattggtgc caaactggag ccttgctcga gtccatggcg tcagtgatag 1560
agtttgacat tttccggctt ggatcgagca gttcctgtac ccaacacgtc tgccatagcag 1620
aacaggcttc aattccagtc atatctcaat cgtcacaggc caacataatc gatgcttata 1680
atattgttggg ctgactgtgg ctggtgccgt ggcacgtgga cgttcctgtc aagtgtattg 1740
aatattggac catgacgaac aaacccgata tcgtccaagg caggagcttc agtgtaaagt 1800
gagag 1805

<210> 2822
<211> 7556
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 2822

cagcttggaa ttctctatat aagtgtagtt cagcatccta ggcttcttta cattgtacaa 60
ttgcaagtag ctccttggga tagatcttgt agttgcattc agctggggaa ttccttttag 120
agaagtaggc acataggtgc aattcccctt ttttattata ttaagagaga actcctcctg 180
tattataacc tgaggagtca gtctctacta ctatacagta ggaagggtta aagggttgcta 240

ggacaggtcc agtaafaaac ttttccttaa gcagatcaaa gctatcctgg cactccttag 300
 tctacaagaa ggggtgtccct ttctttgtca agttgttttag tgggtgtata atccctgaga 360
 agttagggat gaaccttttg tagaagttgc aaagcccagg aatccttaga cgccctttat 420
 agtagtaggg gtttcttatt cctttattgc tttcaccttc tccaggtcta ttttgattcc 480
 ctccctgcc tgtattataa agcccaagta ctttgtctcc ttgcactcaa attcgactt 540
 cttaatatcc aaatataggg ctgcttcttc cagtttcttc aagactattt atacatgctt 600
 ctgggtgctgg cagaggtccc tattagtata gacaagcaca ttgttgatat aggctgagca 660
 gaatttatct agatattccc agaggggtcca gttgatatat ttttgggaagg tgctcgggtgc 720
 attagccaac ctaaaagggg tgactagcta ttcaaagagc ccgtatctca tatagaaggc 780
 agtcatccat tectggcctt tggctatgta gatcttatgg aaggcagcag acacatccag 840
 cttagtaaac tatctggctt gtctaatttg gttcagtgtc tcatggatca ggggcaatgg 900
 atagtagtcc ttcttggtaa tggcatttag agtatagtag tcaatacaga accgcagtcc 960
 tcctcctggg ttttgtacaa agagtactgg ggctgcagct ggggaatggc ttacacagat 1020
 aaagcctttc tgtaatagtt cagagagtgt tttctggagg actattagtt ctccctaggt 1080
 tatgttgtaa agggggcccc aggggacttc aggatccttc ccactctcca cctgtacaag 1140
 ctcaattttg tgatcaatcc tatctcccca gtgcagtggg agttcttctg ctttgtcttg 1200
 tttgaagagc cttaggtatt tctagtattg ccttggtagc tttgtacagg ggtcaatatg 1260
 tctctttggg gccagtacct tctatatatc tgctaataag actgcaaata tctcaatatc 1320
 ttggccacgg caccttttcc tttgtataaa tcctcccatg gttgcggcgg atatctgtgc 1380
 tatgttcagc tttggtaagg gcctctttgt agtactctat agacagactc cagtagtaca 1440
 gaggtacagc ctaccctctc tagcctctaa cttccatca tgttgctcca gccaggggag 1500
 tccaagatt aagtcatagc ccaggttatc aggtattaca tagaagtagg ctcccttttc 1560
 tgtatgtgcc ctgatatcta gctgaacctg tataatctta ttaatctcct ctatattcct 1620
 ggtcactccc ttgaaaggtt ttgggtagat agatatgata ggtatttaat atatcttgac 1680
 aaacttgtta ctgattacc cataggtcag gcagcctgta tctatcattg tacaagcatt 1740
 ataggtatgg ttgactagta cctctactaa gaatagggg gtattcatgc gcgagctgtt 1800
 gaaatcttgc caattaagta gtatttctct agctgtataa cccctctata cgcgactttg 1860

cacagagggtt attcattttc cgactcactc ttgctgtagt cattgatttg gtcttgttct 1920
tcctggacta tggccacctg cctagggtgt ctggtaggtt ttataggga ctcttataca 1980
aagtggtcag gatcaccaca gtataggtat ttgcccttag acaacctctt ttgcttctcc 2040
tctgcaggca cctgactagc ttttcttggg gtccctgtcc cttttgtaca gagggccgcg 2100
acttcctttt gtagggctgc aatttgagta tgggtggctt cccagtctat ttgatcaggg 2160
gtccctagtcc agtcagagcc tcctgctggt cttgtacaag caacatgcgt ggggacagca 2220
gtgcaagatc ctttttataat aagcctagcc actttctgga gggtgtgggt gattttgcgc 2280
agttgattat agtagttgtc atacgaatcc tcctgcctaa taccaaccat ggcttttagc 2340
aactcaacat taattgccgt gtccaacaag gccttcttct gggtatcctc ccaattaatc 2400
cctccagcat taagaagttc ttcgtcaaatt ttattcaaga actcttcaaa gtcacatttc 2460
ccttgcttta ttgtatttac ttgtacaaga gccttctctc gtcagtcagg gtcaccaaag 2520
gccttgtcta gtaccgtgga gaattctgcc catagcacgg gagtctcaga tttctggcga 2580
gccaagagct atggtagtac aactggctg gcttttcctc ttagggcggt gtaggcatag 2640
taaacttgtt cctcctctgt agggtagcag gcggcggtga ttgcaaactt tatataaagg 2700
ttcatctgga aaggagggtg gtccttaggg tcttctccag taaaggggtt gacatccagg 2760
tgacaaggac agggatagct ttgtttgtag ggggtgggcg ttgcggtatg aactgtagtg 2820
gtaactgggt gatggtttct tagttgtgag ttctgtacgg cctgtagttc tgctgtgtaag 2880
ctgttattct cttcttgag ctgttgttcc tgagtcgcga tctctgtaca gagctcctgg 2940
agctgctgta gtaataatgt gatgctttct tcttcattg tcatagtaaa aggtctcctc 3000
atactattat tgagattggt gagcgattcc taatgttaag ggacgtattt agatggatct 3060
tcctatctag acgtgccgta cgtacaggaa ggaattgcta aagaagaaag gagaaagaag 3120
gattgttgtt gtgaggaagt cttgtaggtg gctcaccgcc ttcaggacag cgcaggcctt 3180
ggcgangtca ctaaggctca aggtccttgt ataggcaaag gaccataac ataagcatcc 3240
tccaactata tatactgtat attcctagta attgtttata accttctcc ctaggatgtt 3300
ttttgatttc gcctcactgg cttgatatat aacaaagggt tggaccctca gttttctgta 3360
ccttacatgc aagtttaaatt atagaagatc atattacaag cctgattcgg aaagaatgcc 3420
tactccatta tcataatggt acagatatgg ctggaattct gcgagaattc agttttgatc 3480

aaaaacaacc ttatgatcaa tggattcggg aggtcttctt ctttgataaa gatgctaggc 3540
 agtatattat tctatgctgt acagatcaac aggcaagagc ttttcaggaa gcacagttta 3600
 tctaggttga tctcttattc aagatgatcc aaggcaagac caatgttttc agtcttacag 3660
 ggtggagtaa ggaatattag tataagttat gcctcttgca aacctatgcc tagcatatgc 3720
 tgaagatata ggtattttta tatatgcata tgcctttatt aatattgagt ctcggaaggc 3780
 ataccatgtc atgttttggg agatctttga aatgcttgca aaaattagtc gccaggatgt 3840
 gcactttata tattttctata atactcagca tggcatccgt gtgattacag cagatatgtg 3900
 catgaagcaa ggaccaggac ttggtgatta tcttcataaa atctaccctg cattagaata 3960
 ggatgaatat cttttacata tccttgtctt ctgccaggtc tatgtaaagc aaaacttttg 4020
 caaaaagttt ggagatcatc ctgctaagga ggttgtctat cagttataga atacaccag 4080
 tcgggaagag ttcttttaaaa agatggaggg tctccttgag ctcttttctt atgacaagct 4140
 aagaagatgg ctggagcata aatcaagcaa gccctggatc ctgggtggat tatgtcctgg 4200
 ctagtcaaaa atagactttc aatattagag gcttgtagc aagcatacca atatcagtaa 4260
 gagtagctat ttcttgata ataatactac aggccgaaag ctttctctgc ttggtagagt 4320
 cctacagtat atattctttt ggcatatgct ggacagaagg ttaatttatg cctagcctcc 4380
 aaacagtaac agaagaactc tatgctcggc tcgcgattg caaggagact ggtattagtt 4440
 ttcaccagta ctcaataaat cccataccaa gggttgccta gaatatgaga catcaagcaa 4500
 ctcagaatca gaaatcagct gctatacaac aacaaaagct aaatatccta tataatgctt 4560
 caaatccctt taacttgatc tatacaatgc cgcctgcggc tgagacagct gagactgcat 4620
 tacttacaag tatatcaaca tctactatgc atatgccagg cagaagatca atattactct 4680
 tatcagatat atctacattt caggaaggga gtataccaga tcttagccag cagtaactat 4740
 tgcaagctcc taagcagctt ctatataagg aatctgcaga gagtatacta agcagaatct 4800
 tagaggcttg atagtatgct aaacagctgt aacaagagaa taacaggaaa caagcagagc 4860
 tagatcttct agtccagcaa gctaggcaaa gagaactaga taccttatta gatcaggcta 4920
 gaggaggcca aacataaaat ctggtttcat ggctgatcct taagttatga tcatagctga 4980
 gcaaagtca gcaattatta cagagaagtc gactctatag tagtatgcta tttttgtagc 5040
 tagagtaa atcttatttc agatggctct ggcactgggc aaacttatgc aagtagtata 5100

gctgctctga attgcaaaaa ttcttagcat aggetcaaca gatgcaaggg atatgcactg 5160
ctgttaacta ggctgtctca cctcttttat cttctccatc tcttacatct ttattacctc 5220
tggtatcccc agcctcttta tctctcttac ttgtatcaga atccttttgc tcttcatctt 5280
cctcatcttt ttctccattg ttgcttgcat ctggagtttt gtcagccgtg ttggcagcct 5340
tcttgttctg aactacatgc agttaccata tactcagttt aagtaatata tataaactta 5400
cacctggcct tgagggagcc aggagctcta atagccgcga ggtgctggca acactgtgat 5460
ttattggggg tgggaggtgc ttcggtggt gccataggtc cttcctgcat actattagaa 5520
taaagtaaag catggtagga taatctatac atgacatttt ctacaggggtg atattatttg 5580
cgcattgcac tgttgacgat ggaactttat accccagcgc cccgcaaaag ctggatcaaa 5640
ctgacttgaa gtatgttagg catatgctca gtatatatta aagtacttac ataatacgct 5700
cacaagcagt ggcataacag ttgaggaggc cattaactgg gccgcggcct ggttcaagaa 5760
taaagcaggc atcatgccaa caatgctcca ggacaaaatg cttcaaagta ctttgcatat 5820
gctcagtgtc acaggctatg gcctggatct tgggtgtcgg ccatgccctc aacctgggtc 5880
taaacaaggt tactgcaata tcagcgtaca gcttcggaat tgaggcctcg aagcttagga 5940
aaggagatcc gtctcataa cttcggaaaa gggatccgtc ggcatacagg tccggaaagt 6000
cagaaagggt gataaaggga ggaggaagat atctgcgctt ctatcttttg tttctttctc 6060
taagcttggtg atacttgttt atacaggaca gccagttgaa aataatactg cctacgcccg 6120
ttacactcag cacctcccca gcaccagctc agttctctcc agtcatggta cctacttctc 6180
gccagcgact ctttctcaa tagcaatggt cttgcggctc aaagtatcaa ctacattgat 6240
tgttaacatg tgcgacaaca tgettaagtc tgcttacttt ttgctttgtg cttagtacat 6300
acatgatgcc agtaggccga actcttgcta aagaccatgc catatatttg gtctcctgaa 6360
attgcagccc agcatctgct attatcaata tatacttggt atatatttat tacaacatta 6420
catgtattga gctattcact ttcgagatct tgttcaggtt gcttgctttg aagtacagac 6480
ctgtataagt catagtcagc ataactaag caggtagaga gcacatgcgc actatggtga 6540
tatccccagt ctgacaggtt cgcgcatta aggacctcg ggttctcgaa gtctgttttc 6600
atgagatcgt gaccgataag aggctgcata ctggtagatt agttaagtat atgcttaact 6660
gaagcactcc agatgcgaaa acaaagaaga aaacacactg gggacatggt aatctgttgt 6720

tgtgaattat tataggagag caactaagaa catggacgaa gcagaaatat attgcgcgca 6780
 aaacacacca ttgctatgcc ccacaacctt agcaaccaa agtctgatgt ttgttgactt 6840
 ttcatgatga ttctcagcac atattatggc taaatgcatt ctatttgtag tataaagtat 6900
 agagaaatta ttattgttga atactctata tgatgtttgg ctatacagag ttctgtgga 6960
 taagataagc tgatcatggc tcagagaaca ggtgactgta gccgatcatg ggtcagaagt 7020
 ctctgagcca cgggtgggttc tgagccacgg cgtgggttcag aaactaggct tggcgcttct 7080
 gagccacgat ggcagaatcc tgaaccacgc cgagctgaga cccccgctcg gctttacgtg 7140
 ggaattgagg gattgggggtc acgtgtcaca gggccaggtc gtcgccagct ggctcgcccg 7200
 tgacagctac gttggtgtag ttgatagtac ggcagactat tacgacaaaa ctgcaacaac 7260
 cataatttca ggtaagcgct agtatatgac cggcagaaaa ctagatacat aataagcctg 7320
 cttagtttca ctaccactgg ctggtagtta ctcgtcctga gcaccacgaa gaggtgcaag 7380
 ccttgctcag ggtgctgtac acaacgcccg tacaactagg tatgctgggtg ctggtgttgg 7440
 tgctctgctt gcaaacgaaa atttgtacgt accttatagc tggatgggat tattaggccc 7500
 cccatcatca tcatcattat catcatcatc atcatcatca tcatcgtcct cctcct 7556

<210> 2823
 <211> 725
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2823

ctgaaagatc cttgatcacc acaatggctt cctgcaccac gtagttgacc ttggtgttga 60
 tcagatcgag caaagtattg acacacttct cacaagcgct ttcgatcttg attgcaacct 120
 ggccaatcgc cttgaccgcg cggcggacga aatccatgtc cacctccagg gcgtactccc 180
 tcagttctgc tagtagctgg tcgaagtttc ggtcgttggc tatccgcacc atgatttcga 240
 gcttttgaaa cttgacataa ggtgggtcgt tgtacttgca gaaaaaacg cggagctcct 300
 tgtaaggat gtccggctgc ttttgagca aaagatcgat attgcgtaag gcgacatatt 360
 gcacttcggg agcagatgat actaagggtca ctgaaacatt cattagcagt tcaatattaa 420
 acaccagaga aactcggaa tacctagcgg agggggccatc ttcttgaggt agtttttcga 480
 tagctccgca ttgattattt tcatatgcaa gaagactggt ttgacagcag cgagaaccac 540

actagggttt gcgtgctgga actggggtgc aactcgctcg cagatctgct ctgcttcgtt 600
 tacagcgctg gttctgtact cagacagtgt cgtgaggatt gtgactcggc cccactcagt 660
 gcactcgttc aacgccatca ggagcttccg tagagagatt ggggttcctt gtagggcctg 720
 aatct 725

<210> 2824
 <211> 3492
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2824

acaccgcctt ggggtaactc aaccgcttta tttcggactc ccggtgtgga atttcattga 60
 ccaaacgttt cttttgtcga atatgacgct gagggtcat gccacgcctg agcacagtgt 120
 taagctcaac atcgctctca atcatgtcca tgcgacctc agacacaaga gcaggggaat 180
 gtttcgcgag taatcgcagc ttttcaatgt gattttgccc cacggttgaa ctgagcgata 240
 tcccatggac ggcaacattg aaccacgcat ctcgaaacag agcagagatg tactggctct 300
 gttcgagctg caaccctttt gaggagagta gagccagcgg cttcaaaagt gggctgatgt 360
 cctcaggtgc tagatgtcct tcgtgctcat ctgtcgcac acccttgctc actagacttt 420
 ccaagagatg aacaaggtag agtctgtaaa gaggggaatc ctttctcaac gacatggaga 480
 ggtaattcat cgcacctagg actgcattca caacattgcc atatcctttg gcgacaccat 540
 cgcggaacac acggtcatag aacttcaata gaagctgaaa ctgagcttga ccagtgggtga 600
 tggagagtgc cgctgtctcc ttgattatac aagcatccac tgctgtgttc agtttgctga 660
 tcttttgcag aagcatcgac tgtgccaggg cactaatttg ttcacatgg cagctggttg 720
 caattgtcac tatagcatga acaatattcg gaacgttgct cgtgatctcg agggaatctg 780
 ccgaggcctg tcggaattga ataactgcct ctccggtgag gtaagacttg tcagagccag 840
 ggctcagcac attccccaag gagtatagag ttgttataac ggaatcttgg gagagaacac 900
 cgagaatctg agaaagacat cgagcagcga caggccctat gcttcctgca tttataccac 960
 cctccattat gaaacgcagc agtgagcgac ttccagatga tgcgctgctg acagacatac 1020
 gggagataat cgtaatgcac tttagagtgt tcgtcgcaag ttcaatacac gacatctgct 1080
 ttgggtctat aagggtatcc tcgagccatg acagaaaatc atcagtattt gcattttccg 1140

tcagaagcgc acaattgagg taccctgtta aggccagagc cttgacagaa aatgcaagtt 1200
 gctgttgcca aggagagcca acttgagat aatcggagcc gtcctctaga agttgatct 1260
 cctcggcgat gatgccagtc aaacgattga taagggttat ctctgcttcg tcatgactcc 1320
 tggcgatacc gacaccgtcc acatattcat ccaggagctc atcatccgac atattttgcy 1380
 ctccaatgag agatgttatg caagatttga tgaaacgcat ataaccctct tgcagaagca 1440
 tagcccctag cggacgaccg ttggtggcat aacgccgagt atatattttc caattccgaa 1500
 gtgtattgtc tgaggcacca gcaactgcgc ctatggatga ggcagtctcg ataaccacca 1560
 taaaattctc tgaaaacatt gaccgaatat ggtcgaccat ccgcagcttt tcagtcgcag 1620
 accaaaaggc actaaattta gcgggggctt ttaggaaacc aacgatcgaa gcgcaaagtg 1680
 ccaatatact gacagactcg gcagggtcaa cttctgcaga gaattcgatc gcctcgacac 1740
 atttatatac atattcgctc acggaatcaa agacgacttg gcgcaaagac ggggtatttcg 1800
 accccagatg aaggagagcg aatgtgaggt gatatgaaag cgcttccac ggagacggac 1860
 tgatatcgcg tagaaagggc gaaggacgga aaagctggcc atgggactct ggaaggtatt 1920
 tggatagttg tgagactaat cgcgacgcgt gttcctcttt ggtgacggaa ggggcggcct 1980
 tgcagagaga tatcaagaca cataactcgc gaatatacctt ttcgtttgtt agttaatgtc 2040
 acttctactg gacgaaacga cgaaccatag gcatccgtga cataggagat tgactgtgca 2100
 aaacgccatt gagagagcca ttcagtcgat ttgttaaagct ctggcattgt cgagtaagct 2160
 ggtcaatctc ggactcgtgg ctgtcgtccg gcgtgctgct ggcggctaac tttgcgagtt 2220
 tctccaaggc ggaagcccgg atatttgagc tgaagctaca catcagtcag cgtttgatag 2280
 cacaatcaga ggtctccag aatgcgcact cgtccatttc atacgcttga gttaactttt 2340
 aaaataaaat tgttcgtgag tgggtgcctt ccgcgcctct tgtcgtccag atgggccagg 2400
 ggcagggatt ccaggggact cgaatgatat aggtaggtat ggagaaagat ccacgtggg 2460
 cgtcagcggc ggccctggtg ctccagcttc catacaagca agtaccgagt ggtacttgtt 2520
 tccgataatt accaaagcac tccaatctgt ctatacctca ctttgtcaaa cgacgggagt 2580
 cgatttttag ggccagaatt actttctgtc cagagactag aagtaatggc atcatgctct 2640
 gcattttgtt ggttcatttg cggcgaatca gcagttcaga ttccctggag ggatagttgc 2700
 aatttaagca acaagacaga catagagtga tttcatgagc aatgtaccta catcacgcat 2760

ttgaaggata taaaagaatt gttttagatc ctttgaagct accagtcctt acaaagtaga 2820
 ggccgcgac tgtccgtaat tagaacagga tacgaaagaa ccatttttac gggcaattta 2880
 cgaaaggatg ttgtacctaa ttatggaact cgagagtagc gcgtttccta agaccctggc 2940
 cgaacagtaa gattcagatt ggccgacgaa ctcaagcttt tgggctttta tttccaccgt 3000
 tatcttttta tttgactacc acattcttct ctgacttttt caagctgtcg ctgggttcagg 3060
 agcaccattg gcagctcctc ccgacctttt tggcctataa acttcacctc aagcccgttc 3120
 cgcacttctg ctgcgagtag aatgtgagtt gtagagacaa tacgatggta ccacgaaatg 3180
 agcaaagttc ccttaagcgc agcagggtag gaaaccactc tccaagctgt attcagctgc 3240
 taattgcac ctcatctcta taggttactg cagaccacga atcgcaagat caaaagaagc 3300
 ccagacggtc tgagaggatc agttcacagc aacaatcgca gacacctgct atacagtcac 3360
 acctaccac tcgtaacgc atcatgactc tacggctacg gacttacgaa acgaaatgac 3420
 agctactccg ccaagtcaag ctctccgcg gtcaccttct gacctagggc ctctcctgg 3480
 cgatacaca gc 3492

<210> 2825
 <211> 965
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2825
 acacactgta agttagggct accgactcac agacctttt tccagaccga agccacaacg 60
 tcaagcctga gctgactaga aactactgga tgtcgacata actaagttac tggcagatgc 120
 ccctagtcca gcttcacca ctctaataa aatccccgc cttaacgcgg gccatagaac 180
 tggatctggc ggggcccaat ctatcccaga cctaacttac agcacctgta cctacctagt 240
 ggttatggac cgcgataggg aaacagtgcg aaataattat ataaagccta actgaaggaa 300
 aagcaatttg cctaagcatc caaaacacc tttcatccta atcatccccg aatttgggag 360
 actctgggag aatctgggag cctctcgagg ggtctttcaa ggcgggcag ctagctaaat 420
 ctctctctgc gtctcccat acttcttcat ccttttctc atatccttca tatagaactt 480
 gactgggtat gtctgattg ctctgggcaa aaatggatac gtcgcctttg tgatcgccat 540
 cgtcgattta tacaaccgct tgcgcccctt actgcttttc agaccatact cctttctcag 600

gcgctcgggg agcaactccg ccgtaacaag acgcagcgtc ggcatcagtg ctttgaagta 660
gaacggaatc ttgggggttat acaggagatc gtgcgcgacg ttctttgctt cgtcgcagat 720
gtcgaatgtc gcgagctgct cgtcccagta gatccagaag gcctcgcggt cttttggcca 780
catttctacg ggcacgcgca gagaggcgcc caggacaacg tattctctgt atgcctgttc 840
cgccgtttct tcgtccaaaa cgccgaatat agactcgtac aagtcaacgc caacgcgtac 900
atagggtggc gcaaccaga gctgcgcact gggatcatcg gcttcatagt ctgacccttt 960
gacgg 965

<210> 2826
<211> 4587
<212> DNA
<213> *Aspergillus nidulans*

<400> 2826
atgtatatac cacacaccat ttaagagcag ccacataaaa acttactagg atccgagggc 60
gcgcctcggc gtttctcca aacagggctg ggctgtcttc ttggattaca gtcggcatgg 120
tggttaatgt gtgcgtggct cttcagcgac ggcgaggatg ggattaagaa tccgcgatgg 180
cgacattcat atacaacctc cccacctgc accggctgtc atacgggtcca gcttccccat 240
gcttagacca ttcgcagcat cctggaacat gaaggaacca tgtgggagcc aggcaagagt 300
catgcaccgg ctaggctggg agcgccgtcg gcggggcacc ggcgaaattc tcggagagcc 360
gcttcagtgg accggctgtg ttgccaaagc aggcttagat tcaggctagg caagagagaa 420
tctggagtat cctgggggtg atatcgtgca cattgcgtcg agcagcagct ggcccttttg 480
cgtactgcga gctccaaggg cctgggacgg aatatatcca ggcaaagggg ccctcaaaac 540
ctccccgtat aagcttcctt gctagcaggg accctcaaaa atgaccagcg aagggttaac 600
gtggatgcgc caccgcgca tgatgtgctc ggacctagca gtggtgtaat aaccctagcg 660
cggctctgctc ttgcgcaacg attgcaaagg ctcgattgcg aatagctaca gcccaaagtg 720
ctcatcctgc ccatcggacc agatgggagt tattaacagg tatcagtgtataaaagacg 780
gacacggcgc atgccgtctt gtcctcatct cgacgtgact gcgtttcttt ccagcaaagg 840
aaccctacc gcagcaatgg acgatatcga gcagagcggc aaaagctcgc tgtacagcca 900
agcaaaggag gatgataagt cctccaaggc tctacctgcg gtcggacagg agaacctctc 960

ttcggtgact cctcctcatg agtcctatga ggggcatcac cggttcgate ccactgcgac 1020
 ctggacagag gaggaggaga ggagggtaat ttggaagacc gactttatgc tcatgacatg 1080
 gctctgtttg atggcaagta ccgtggatga ctgcaggaac atctgctaatacgc 1140
 agttcttcgg ccttcagctg gaccgtggta atctgtccaa tgccctgacc gacaatttct 1200
 tggatgatct caacttgacc accgacgact acaacaacgt acgttataac gacgtgttct 1260
 gttctatccc tttttttttt ttttttgttt ttttgcattt gtaagctcga ctaacggcga 1320
 tcgcagggaa ccaccatcca actcctctgt tttctcgcag cggagttccc cgtgcaactt 1380
 ctcattaaac gcttcggttt cgggcgagtg ttgcccatcc tgatgctgct ctggagcttg 1440
 gtctcttggg cgcaggcttg gatgacagac cgagcatctt tctacgtgac cagagcgctg 1500
 ataggcgctt tcgagggagg ttttatccca ggcacaatct tgcttgcaac gtacttctac 1560
 aaaacaaagg agctttccat ccgattgtca ttcttctggt ctactctgaa tgtgagaacc 1620
 ctttatctga gccatgcgtt catggagcgc tgacaatccc aggctgcccg tattatatcg 1680
 tctttactgg cggctggaat tctcgagatg agggggacca ggggacacac aggctgggtc 1740
 tggtatttcc ttatcgacgg acttataaca ttcgatcatc gcttggttgc cctcttctat 1800
 ctgccaagtt caccacagag gacgaagagc atcctgtatc ccaaagcgtg gtacaccgag 1860
 cgccaggagg tgatcatgat caacgtacgt tctccagaga ctgttgagcc aataaactga 1920
 cattttttagc gtcttctgcg tgatgatccg tccaaaggct ttactcacct gcatgaacgt 1980
 gctactctcc gcgacgtgct taacgcatgg aaggacaagt ccatgtgggg gctgtacttt 2040
 atcgggctga ttgcctacat tccccaaagc cccgtgcagg ggtacctgtc cctgacactg 2100
 aagagactcg ggtttacgac cttcgagtcg aacatgctct caattccatc agctgtgctc 2160
 cagatcatcc tgatgctcat cctgtcgaag agcagcgagt acttcgggga gcgcacattc 2220
 cactgtgtga ttggcgagtt ctggtcgctg ccactgctgg ctactctcct cggctctgcct 2280
 gatcatggat acaactgggg ccgctttacg gtcaccacga tgatctcagg atatccgtat 2340
 ttccatccca tcgtgtcttc atggatatca gagaacacat ttgacgtgaa aaagcgagcc 2400
 atcactgcgg ccacatataa cgtgattgtc caaattggct cagtcatatc atcgcgtaag 2460
 tcgaggtatc caccctgga aacagagctg accaaaacag agatctaccg cagttatgac 2520
 tcaccgtact actaccaagg aaacaaggct ttgatatcca tctgttcctt ggcgcttgtt 2580

gtttttgtgg ttcagcgcga gtacctcagg cacctgaatc gcctgaagga gcggaaatgg 2640
 gaggccatgt cgcccgaaga gaggatcgaa taccaagccg accttgctca acgggagaaa 2700
 gacggaaaca agcgactaga tttccgcttc aagtactaga ttttggcaaa ggcgcagtcg 2760
 taatgtctgt tcacttatgt tcgacgatcg gccccatgt caggttaggg tgttcaggcg 2820
 cggatactgg gaatctccgg aaaggttgtt cagaggcaga tacgtatcta agtaaagata 2880
 atcttgacga taatcaagga tagcattatt gaacatcgga ccaagtggga gtagatccag 2940
 cgaagtcgaa gtcgttggag tagtgacgac actgggatcg gtgcgaagat cctgcacagt 3000
 ggagtatatg agaggatcat agctggactg gctgtagtcc cctgggtccg tgatatcttg 3060
 taggggctgg ccgtagggtg gtggtatagt agccgcatca ctggtcagcc ggattgtact 3120
 gctatcatca ctggccggct gatctacggg tgtcagtaat ccactgggcc agtcgatggc 3180
 gtccccagtt tcgttggact cattctgtga gaagtcagtc gcggtcacgc tatectcggt 3240
 acatgtcgct ctgcgggttt ttgattttcg attaggttta ttgttcccat tgctcgggtgc 3300
 tggtaagata ggtgctgagt gcatataatg tgccttggcg attttgccgt atagtatgtc 3360
 caccaaagtg ctgttttctc cgccagtcaa cgccgagagg atggagtga ggcgcgtgag 3420
 gatgttactt ggccggcttt cttggtecca tcgactcgta tctggcacgg ctgcagtact 3480
 ggtgacagcg tctgcgaggg aggtcgcaat ttcgtacagc ttcagctgct attcacgttg 3540
 tcagctaggc actccatcca ttctttatat cgactcatag cgcttaccat gccaaggcca 3600
 tgcgcctgga ggcgcactcg aggcagccgg tagactacac tcaccagatc ttttcccacg 3660
 atcaacggaa ataccggcga gagaaaacag tctgatgagg gttggcggcc ggtagacgag 3720
 tgggacaggg ctttccatgc gagaatgcgc atccagtgtc tcgtcacgca gatatcggct 3780
 ctctgaacgt cggataccct atccagggtg ccaaagccgt ccggggattt atcctggaac 3840
 atctcatcaa aggtggcagc tgtagcggcg ctggagctaa caggaggctc gagccctagg 3900
 tggtagtctt cgacaatgtc gaacattcgg ctttgttcga atagtctgaa caatgtcagg 3960
 agtttcagga atgcaggtag aacctcgtcg tccgcatcag tttccggcat agctgtgtcc 4020
 gtttttagaa tgactggaag cttgtggagg atgcaaacac cactattata cttgcatcag 4080
 aatcaagctg gcaagcaaag atatgcatgc cacttaccgt tccgtcacia atagcaacca 4140
 taacactcga cggcgggatct tctgctcctc agccgcaagg ctagggtacg atgcttctct 4200

atgtaggtac atcatttgcg ccatagtaat agcctctctg aggtagagta ccgattcgct 4260
 tccccctggg tgttggtttt catagtatac atgtaggaag aaggctgttc ggacattgtc 4320
 caggttcacc cgtgaacgat agtccaatct tctcctggcc tcaaggcact cagccgcgag 4380
 gacatcagct gtgactgacc gatccgatgt cgaaccacca agccgtagct gagccatagt 4440
 agcagcggct atgctcgctg cgagcgcgaa cctctcatgg tccttggttct cggggctctg 4500
 ttgcagggtt gcaatcaagt catcgacgtc gacaatcggc caaacgggtt acatgcggac 4560
 atggtaaata tagagcaccg gcgcaat 4587

<210> 2827
 <211> 1004
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2827
 caaggctggg cctgctgtcc agcacactat ccatggttgt cataatccct ggtaagccaa 60
 acgaacgaac gagaacagtt cgaagaagac gttactttta tccgcagtgt ctggcaattc 120
 gtacatgcag tgggtgacctt tcgcttccgc ggcagggaat tggcgatgct ggagccgggg 180
 ggcattggcg gatcctgacc aaatcctgaa gagtcagata ctggacgaag taaggggaaca 240
 gccagccacc atttatcctc tccaagtgac tgccgctggc gtatctgacg taacgggcct 300
 ggtatctcca aatacgttga tgggtgcatt gttggcttcc ccatcatcca atcggtatgac 360
 agccagccgg catcctgttc ctccaatgag acgcatatct tcctaattag ctgagtagat 420
 gggcgggtgga atgttgatca tcgccggatc tgtgctagca agaagtctat tggccgggtg 480
 cttggctcca ttaaccggtg aactaatcta tactgagttc tcgttatgcg aaagggacag 540
 gtccacgata gcgggggttag ggatggctga ggtcaggac taaggggtcta gaatgctgag 600
 aatgtagtca gaatctatca agggttccta gcaatgaatc cttagtagag tctttaaatg 660
 agccctccag tagagcacc ttccagaggag cctacaagag gttccaagac cctcttggtg 720
 atattaatta tgaagacgaa aaataagatt cattcaagac cctcttgagt ttgccagagc 780
 cttcttttct gtttattttg caagtgagat tatgccaaata gaatcttttc agactatcgc 840
 gtgcttttca aatgcagtcg tctgtctgaa taattcatgc tgactaaggc tgacaaatga 900
 catgtcgaaa caagcattta tcgttcaatc gtcagcatac aattagccca gggccccatt 960

catcttatag acaagcttta gtcattgtcaa ttacattcaa cctg

1004

<210> 2828
<211> 1128
<212> DNA
<213> Aspergillus nidulans

<400> 2828

cctgaatttc aagatccgag tcagactcgt agctatctga gctggaagag gccgagccct 60
tcccatctgc ctttttggca ggtgctttct tagtcacagg ctgcttcttg atccccgctt 120
gttttgtttt tgaaggcgcc ggttttagccg cgaatgtgct ggtacggatt tgatacctgc 180
cctggttaat agcttacggg gtgaggattg gcaaagacat accattaatg gcaggacttc 240
caaccgtcga aatatgatca gaagcgaggg aattattcac ttcagggttg ggtaaaatcg 300
gctgcagatg tacattatcc gggaaataac tgaacattct aggggaaccc atcagtttga 360
ggctcagaaa gtaagtaact agggaaagcg cgcacttttg atcctcagca ggatttacgt 420
aaacaaactg gttttggttg ttgagcgagg agctctgatt catgggctgc ggggtactga 480
tgaactgtgg gttgattgtc tgctccggag cacgttgagg ctgtgtaa attcatttgga 540
agctgagcga gggatgctga aactgtcagt aaaaaaaaaa aataataaaa agaagagaaa 600
atcaagaact gatgtagcct ggatgatgct tactgtgggg tcgtcaggga atccgggggt 660
gatcgatatat tgcgataacg agttctgatg gagctgctgt ggctgatatg aagcaggctc 720
agacgactgc tgagagggct gtggtgagtg tgtttgtggg aatgcatccg ggataggtat 780
gtgttggtga gtatagaagt tgggggagaa cgagtaggac tgatagttag cattatccgg 840
cgcgggcgacc gcccgggagt caaaagtcac ttgtccctga gcatattggg gaacctggcg 900
atcctgagaa gatatcccaa ggtcctgcgg tgttgggggg accatgggtt ggtgatgcag 960
cggattctgc tgccatgact gcggtgttgc tgactgatac agtccatggg ccgaatctcg 1020
gtgagaagat tgcgaatgca gagcaggatg gtcccagcta attcccaggg gctgatgttg 1080
tgattgatgg ggtgtcaact gttgctgagg aggatgtgaa tgatgggtg 1128

<210> 2829
<211> 1754
<212> DNA
<213> Aspergillus nidulans

atgaaactac cgaatccgct gggtatctgt gggctgcgcc gctcgaagct tcctgtcgac 60
atcggctgct acgttggagt cgggtgcgac gactatagtg aaaacgttgg atctcgtaat 120
gccactgcct tctcagcaac tggtagactc caggctttta acagtggcgc catcatccat 180
tactttgggt ggagtggccc ctctgtcacg gttgacacgg cgtgctcatc agctgctgtt 240
gctattcacc tcgcgtgcc a ggttaagtgcg ttccctagcc aaacaaacac tattacaatt 300
atgctaataa agtgtacctt gacctaggcc attcgaacga atgattgcgc tatcgtgtga 360
gccggcggag tgaatataat gacagatccc cgatgggtccc aaaacctggc tggggcatcg 420
tttctgtcgc caaccggggc atctaaggca ttcgatgcag atgccaatgg atactgtcgt 480
gggtgaagggt ctgggctgct tgtgctgcgg ccctggaag cagctcttcg cgatggcgat 540
cccattcacg ccgtgattac tggaacatcc gtcaatcagg gagcaaactg ctgcgccgata 600
actgtcccg attcaaaactc gcaaagaagc ttatatgtga aagccttgtc gctttctgga 660
cttactccag acgttgttgg ctatgttgaa gcacatggca ctggtctgta acccactacc 720
tggtatcatt aacctctgt agatatcgtt aacatattga caggcaccca agtcggagac 780
ccaattgagt ttgaaagtat ccggaaaaca ttctccgggc ctaatagggc caciaagctt 840
tatgttgggt cgatcaagga caatattggg catactgaga cgtcttctgg tgttgcgggc 900
atgctgaaga cgatcctgat gatacagaag cgcagaatcc ccaaacaagc taactttcgt 960
cgctgaatc ccagaattac attaaacgag aggaatcata tagaaatccc tactcaatca 1020
attgactggg aagctgaaaa acgcgtggct atgggtgacta attatggggc ggccggtagc 1080
aatgctgcta tcgttctacg agaacctgcg tcaacacctg ctacctcaaa cagtgcccat 1140
cgggagaccc tgcctctgca tgttcctttt tacgtctctg ctcgaaccga agagtccttt 1200
cgctcgtact gtgaagctct tcagagcacc atccgtgagg tagcacagtc aggtactaac 1260
accgtgcagc atatcgata caatttggca cggaagcaga accgagatat ggagcacttt 1320
gtcacatttc cagccgccgc tggggagcct tcagagctta tgacacgctt aggatctatc 1380
gcctccgctc atacgcaggc cgaagacgg tccccgtcct ttcacctgt gattaattgt 1440
tttcgaggac agaccggaga tacagcgagc atcttaagaa atttatttga gaggtgcgag 1500
cttctgcgct ttcacgtggg agtctatctt tttcattttg gatacacgta aggcctttgc 1560

tgatctgttc ttttggggga agggaaaacc ctgtgccccg tagatctccc ttcctatttc 1620
 cggttatggg gcccttccct aacaaagaat ggggaccctc tttggatggg ttcacaaaa 1680
 cccctccaa ggggtggttat tttgtatgtg ggcccccaag agggctaatt tggggcaaaa 1740
 cccctccgt gggg 1754

<210> 2830
 <211> 3364
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2830

ttcattgtcc gcgcccaggg tgaagctcga tcagctgaac tcattggaga cgccatcaag 60
 aagagcaaga gctacatcga gcttcggagg attgagaacg ctcgacatat tgcccagatc 120
 atccaggaga acggaggaag gaacaaactc tacctggaca gcccaaggctc cggcctgaat 180
 gtcaacgcgg gtgcggacgg cgaaagcaaa taatatcgaa tattggggggg aaaagtttca 240
 tggaggggtct ccatggactg gtggatcttc taaacttcct tcccactcga gagttgtcgc 300
 gctttcaagt ggttcggggg ggaataaatc atttgtacaa atagtttttc aggtttccac 360
 agcacaggcg aattgtgtct cttctctatc ataatttatg gttgtcatcg tcgacgagtc 420
 atataccatg caaccttttt ttctagaaaa aaaaagtatc gtacattgag gtggcagcag 480
 cctgcactt catgcaactc gtggctgcgg ggacacgagc ggcaagcggg aattttatat 540
 ttcaagcggg gaaacataat tttatcttga tcacatacac cacaaatcaa gctcgcgcag 600
 caacatattg tgcgtgattt aatctaaacc gtgcttactc tctcgtgtca caaaagcttg 660
 attgectact ttttcagggt gcgtattgct cgctgtcaac ctccgtaccc tactcctctt 720
 tagaggggtcc tctgcgcgaa gccgcattca agataaagag cgcattagta gctatagctt 780
 accgcgcccc agatggcgaa cccggtcacc gaaatcgacg tcgacctcaa cactcaagaa 840
 gtcccttctcg cagcgtcaca gcacgacacc gcaaagctcc gacggctcct ccgtgccaac 900
 gatgcgggccg ggaaccccg ccaatgtcaag gaccctgaga caggttattc accgcttcac 960
 gccgccattg cagcctgtga acctgacgag gaggaagacg tgaaatcaaa tgggtgtccag 1020
 acaaatgggg accgacaaac ccacgggcag gagagcacag ttgaggccgc cgtccagacc 1080
 gtgaaacttc ttttgcagga gggcgctatc tggaacgacc tggatttaaa caatgagact 1140

cccggttgta ttgcgaggag gctgggactg actgagctat atgacatggg cgtggatgcg 1200
 ggagttaggg cagagctgct gttgaacagg ttggatgggt atgagcaatt gtcggatgaa 1260
 gaaatggaag aagatgggga acaagagcaa gagcaacagg acgccgccgt cgccgccgac 1320
 gcaagcatta caaacacagc agaggacgag tccgtcccg cagctagttga taccacagct 1380
 gcagcacctc cacaacacagc agatgcggac gccagtgtca caagctcccg ctacctgaac 1440
 tcagacctca cattccagca agaccgactt ctgaccagg accaaaacgg cgtaatgatg 1500
 gcctgggagt cggacatcat ggccaagtcc gcaaagcaac tcctcccgac accaggtctc 1560
 cgcgtctca acgtcggaca cggaatgggc atcgtcgacg gcttcatcca agagcagtcg 1620
 ccgtcagcac accatattat tgaagcgcat ccagccgttg tcgcagaaat gaagcggaaa 1680
 ggctggcacg aaaagccggg agtcgtgatt catgagggca agtggcagga tatacttccg 1740
 ggctcgtag ctgaaggcgt gatgtttgac gcgatctact acgacacctt cgcagagtct 1800
 tatgctgatt tccgagagtt cttcacggag caggtgatcg gagtgttga gcaagaggga 1860
 aaatggagct tcttcaatgg catgggcgca gaccgacaaa tcagctacga tgtttatcaa 1920
 aaggtcgtag agatggatct cttcgaggcg ggattcgatg tcgagtggga ggagatcgat 1980
 gtgccgaagc tcgaaggcga gtggaacggg gtccgtccgc cgtactggag tatagacaag 2040
 tatcggttgc cgctgtgcaa gtacatggat tgagtgcata tagacaatat gcgggcgaat 2100
 tttatgactt gagtacctgc gaggcgtcaa gagacaaata cgactacttt ataaatctgc 2160
 cacttcttca attgtaattt tcagctatga tagcagccat aactgataaa aacgaatttc 2220
 gatgcttcaa acaatcacia tagtcgagtc gtcaaggaag gagtgaattg aacggaggat 2280
 aacagttatg catttgtgcg ggcaccgagg gggcgagtgt atggtattta aacagagctc 2340
 gtttcaagcg cccgtcactc ctcccaggta agataagaca aaatgatatg ctcagtacaa 2400
 taattattcg tattatgttc taattcgatg cttagacacg cttcatgcta tgtacttcgt 2460
 acgctcgatc tgaaaagccc ttggtcaggg atgcgaatcc atgccccaga atatagaaca 2520
 ttgataatga caacaagcag cagggaaaat aatgcccgtc tcagtaaaac gccattcgct 2580
 agaggggaat agagtcaatc atcacatcga gaattgtcga gataggccgt atgcgttata 2640
 tacaagtgac ttgtaagaag gaaaaacttt ctataactgg atgaggtcaa cttctgagaa 2700
 gtcaggtgga ctgcggctga agattgtacg gcactttcca tcaagtgcct ggtactcggt 2760

actaatccag atatgcttgc tgaagcgctg ggtgcggtaa atctcgtcgt cactgactcc 2820
gaggtcatca cgaggaatcc agataacggg acgtttggac cgaagggcat cgtgctggaa 2880
agctcgtcgg acgagttggt cgcgttcgtc gggagtaaga tcctcaagct cgtcgtgaat 2940
gcctgcaaac aacgcggagc tgcgagagtg tcccgctacg gggccttgtg cttcgggtgc 3000
tttttcaagc ttttcccgca tacgttgaat cgaggaaca gcgtccgctg agtttgcacc 3060
aaagtatttc gaccgtcggg taggagactg tgctgtttga acggtccatg atgccaaagg 3120
gaggccccag ttcgcctggg gtcctggggc aagtctgac cttgtgtttc agtccaaagg 3180
ccgctactta tcccgctaa ttttttcaac ccaactcacg agagtcttcc tagcctgatt 3240
tccccccca cttttctgag cgcgctaagg aagtctgccc tccttgtttt ctcatattata 3300
ttagaccacc ggcctttccc gccaatttta tctgcaacgc attctcacta ttgaactcaa 3360
gggg 3364

<210> 2831
<211> 1305
<212> DNA
<213> *Aspergillus nidulans*
<400> 2831

tcattgagtgt cgggataaaa agaacaatcg cgcattagctg ggagcaagtc gagatcaaag 60
aatatcattg aggtcttgcg ttaccgccac agtcgacctg atgggtccgac cgctctttgt 120
tacggctcaa ggtcgcagag gccacgatga gataaagttc gctgtggtat ttgtcctgag 180
catgcggaat catcggaagt cggtgacgaa atttactggt ccccatccat tccagagatg 240
gaggatgatg atgttgcaga gagcggactg ccgaaattgg gaaccagatc atccactgta 300
tcacggctgc gagaaacaga tttccaaagg cccgacgagg gtctggacgt tgtccatgat 360
tgtaagccca tacctgcttt cagcgactgc cccatgataa tggggcctga ggaaattgtc 420
gaacgggtgcc gatacgaaga aatgggagag gtcgggtatac tacttgtcga aggagagcgg 480
agagaggtag gtgatcgggc ggaggtagta atggggcctt ttcggggcg cagatgggtct 540
gttgaagcta cctcgaccag gttatagtgc tcgggccccg atgttctact gagcaagtgc 600
tacttctttg cccgctcgcc gttccgctc aaatccttca cgtaatcttt acgaacagcg 660
agagtgagag aagctgtcgg gacgttcacc agcgtgggt ctcctgacag ggcgccaatt 720

aaggcggttg agcccgcccc atgagttaca agaatcaaga tagtatcgac cgccgattcc 780
tctgcttcat tttgtcccaa aaattggagc tgtgaacgag tccgacggtg accaagcggg 840
gcggaagcat catcatcctg gtaccacgag atgatacggg tgatgccgct cctgaagcgg 900
gtgagcatgg tactccattc atccccatat tcacccccgc tgccccagtt ctgggggtca 960
cgcatgctgt cccactgata atcaaccagg acacagttgt cagcagcatg ggtcacataa 1020
ccgtctggaa taggatttga gggcgatatc gcataactcg ggacggggcg tgcatatgcc 1080
gcgccagggg tggaagaaac atcagtgttt attttcaaga ttttgcggcc ccacggggta 1140
tctacctgcc taaaagaatc ataactaccg gaacgatttc gttgtgctgg cccgttggtg 1200
gtggctgaac ttgattcgac ttcaaatttc cggctctctt catccggggc ggaaactggg 1260
ctgccaacc accaggaaag tggccacggg cggagtaggt tgggt 1305

<210> 2832
<211> 1254
<212> DNA
<213> *Aspergillus nidulans*

<400> 2832

tcagccggcg cggcatgaga aacccccag ccttcctttg catacgctc gtcagtatca 60
atgtcgtctg taaagagttc gcggccgggt tctcgcttaa ggaatgaagt tcagttcagc 120
ccagcagata aaaatgttga cctgtttcca tttactcgcg cagcctcaa tgacgtcccg 180
tacagatctc agcagcccct cgacgaagct cggctgacac ctgacgacct acgacgacag 240
atgttgagta tgggtgtttg ttgggacggc gacattgagg ggttgattaa ggatgagcgt 300
aagtttgccg gtacccttga ggaagcttga ctgactcttt agtataccgc cccccccag 360
gcagccctgc agccattctc cttgcgcaat ggattgacga gtctgacact gaccacatgg 420
tatcgatgat cagtgtctggc ccaacctcgc tcggtgactg gatgttactc gcattgagtc 480
agatgaacgg ccagtcccag gccacaagg tcggccaggc ctttgtccag aaactgctcg 540
agctcggcga tgtgcacact gcggctacga tcttaattgg gttaggtgac agagatgatg 600
caatcgaggt gtatgtctcg caaaattact acatggaggc cattctcatg acgtgcctgg 660
tgatgccgac cgattggcag cgacaatcgt acctgttctg acgatggggc gagcatgttg 720
tcgctcactc ccaacaacaa ctcgctattc gctgcttcat gtgtactggg gtagagcctt 780

ctgatccctg ggcattctcg gcagttcatc aagcacactt caaagatatg attcccggta 840
 ggtcgccagt cggatcgccg gagcctgcgt atcaaaaccc tgcaagtctc cttcacccga 900
 caactactgc aggcaatcgt cagtcgctca agactccgtc gctcaagtta atcacttctt 960
 tcgatggaca gccaaaccag cgtttccgat tccctggcct caaatctgac gatcgaacgc 1020
 caaccaacgc ccttgggaatc actccaattg cagattcagc ggccggatct tctgcccttt 1080
 cacctggggg cttcgggtca tacaagctga acaatattca aagcctcaac aatgccatga 1140
 attctcggac aggcacacca ggctttctca agcaacgtct gccgtcaatt ggagaaaccc 1200
 cagtggatgt tcacccttca acattcctgt ttaaagagac aaaaaattag ttgc 1254

<210> 2833
 <211> 4057
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2833

caatgtattg tttcggacgc accgattccc ttcattatcgt acaagactac ttggagtctc 60
 aaacaaacag ctcggaacat accagcacag tatctcttcc gtgatgcac gcgggcactt 120
 gatctggtgg cagtcctcgc agtacaggag ctgctccggc gggtagacgc agaaattcga 180
 ccgcgggcgc cgcgggtcaa atgtctgttc gtctctgtcc tcgtcatcag atatcaccgg 240
 ctgtggggcgt ggcttcacag ggctggcctt atgcggcgac tctcttgacc tccgtttcct 300
 ggagggatcg ggcacggagg cgtctgcgca cgggcaggag atgaacgtgt aagggaatgg 360
 acacgccatg ctgtagtagt tagtctagat atgagaaaca gagagtcgta gcctccaatt 420
 cttacctgac agtctgccgg gaccaatta aggggtgaag gatcaatgtg aggtgcaagt 480
 ggctgtgttg ctggagaaga gtccttatac gccaatcgac gtgctaaaga tttcctctcc 540
 gacgtcacia ctgccttccg cagaaatggc catctaacca ccaagcccgc tagaactcca 600
 ttaagactta tcaactattgc aatatatata tcatctacac aaatgtcatc tctccgacac 660
 ctccgccccg ttttccgcgc ctcatggacg gctcgcgcga cctacgccag tcaaacccca 720
 ggcaatcctg tgctcgaaat cttcaaccgc aagggttaaac acctccagaa agaccgcgcc 780
 gcacagaatg tcgaagagag tcgaaaagtc gactacctca gagatgaggt ggccatgcgg 840
 ctatgtgaac gtcttcttgt acggcctcac ccatttctct atggagccta gctagttagc 900

tagcttagct agtcacttct gcagtagagg aggaagactg ataaagacta ggacataaaa 960
cgaagattcc ccaatgttct cgatctcggt gcaaacagct gcaacattgc gcgcgccttc 1020
acaactccca tccccccct cgacgcagca gcagccccag acggagacgc agacgcggcc 1080
gccgcaggag caacgaccat aaccaccgag ggtgcgacaa tctccccagg tggagagcca 1140
gtcacccttg cagaccggat agaccacctc acctgcgtcg agacctcgtc ggccctcctg 1200
caccgcgacg cagacctccc tttcaacaaa ctctcccta taaccgcaa ggtcattcct 1260
gatctcgagt ctcttccta cgaacccaac acctttgatg cagttctctc gtgcgtttca 1320
atccactgga taaacgatct cccctcgttg ctggcacaag tgaattcgat cttgaagccg 1380
gactgtccgt tcatcgcggc gatgtttgga ggtgatacgc tctttgagct acgaacgtcg 1440
ttgcagctgg cggatttaga gcggagaggt ggtgtctcac ctcatgttag tccgcttgcg 1500
gatgtgagag atgtgggagg gttgttgacc aaggctgggt tcaagatgct tacggtcgat 1560
gtggaggata tcgtggtgga attcccgat acgtttgccc tcatggcgga tctgcaggcg 1620
atgggtgaga acaatgcgat tctgcagcgg gagcagggcc ctatttcgag agatgtgttg 1680
ctcgccaacg aggcgatcta ccggcagctg catatggagg aggggagtcg tggattccg 1740
gcgacattcc ggctgatata catgatcggc tggaaagagg gggaaggaca gagcaagccg 1800
ttgccgaggg gaagtgggga ggtcaatctg aaggatattc ttggtggtgg tgatttcagg 1860
ccatagtcta tagcttctgt acagtatcac gaacaaacag ttgaatgaca acagagaaag 1920
ccgcttaaag actaaacagt cctccggtcc gtcatgacac gcacaatcga ccccgcccc 1980
gtcaactcga ccagcttctc atgccagttc aaaagcacac tcatttggtg cccaccacct 2040
ccctaccaa gattccgcgc ctggatctgc gagaaccccg tgctctgcgg cgacaccgac 2100
ttcctgggac tctgagcacc gttacttggc cctccagccg ccataccctt gtacctaaac 2160
cagcgcatat aattagcctg aaccctcgct tcacgaatca aaaaagagac atggggagaa 2220
gcatacaagt acttcatcaa acaatcccc ctctccacac cgcccggggc atccagcaca 2280
gcttgagaa cctccccat ctaccctgc cgaatccct gcaggacatc aatgaccgtt 2340
gcaagatgga cctgcttcgc gccctcgteg ccgccaggg gcgccgtgtc aagcacgtga 2400
atcagcgccg cggcggggtc gcccgagcgc aggagttgcc gcacctgtgt tgctgtat 2460
gtggcgtcgc tcgagccttg ggtggagga aggggtggact ggagaagcgt ggtagagggg 2520

aatttggggtt gagtttgggt catgggcgac aatgtttatg gtgcgatagt ttagcgtgga 2580
cattttgatg atcgacttga tggttgcgtt gagatgttcg ctgtgccgta ttaaggagat 2640
tgagagggttc ggaagttagc tatataaatt ttagagctat ctggggcgtc gatggttgta 2700
gacaggaggg ttaaggaagt ggttgtgttg cggaggagtt ggaggaggga gaagttgggt 2760
cgtcatcaat taagagaggc tcagtcagtc tccacgcggg gaaagcaacc agcttatgac 2820
agctggcttt ctatgagcaa ggacgatcaa ttctcttgaa tatctcttct gattagaaaa 2880
aaatgcgatt atttgataag ttccaggggtg ttcgctattg caagctacaa taatcaatgg 2940
tcaccttctg gtgtttgtgc ttgggaggag taattgcctt cttgcctaag gcactctctc 3000
ttaaccctac aactacggac ttcacatccc tacgggtaaa cagataacaa gtctagaaca 3060
ttgttcagct attcagatta gtgtatatgt ttcgttattg gcccagaaga tgaaacagaa 3120
aagaaaacct tcgctatgca aaatgcccc aaatgaaccg gatgtatcgt ggtatctcga 3180
aacaccaagc cgcccatgag aacgccaag tcaagtacgt atagactatg gtacatataa 3240
caaaaaaaaa attgagcgta ttatctgctg gaaacatcgt caagggtcgt aaatgtaagt 3300
tggggcaagg agcgtgttct ctcgtcggga acacgctgtt cctttagata tgtcaaagcg 3360
ttcgcacgtc ctgacttgtt cttgttctgg cgtctgcgaa taattcgttt gattgggtcgt 3420
ccaattgcag caaaagcgcg gccgagaggt tttaaaacga agccgatacc ggcagtcaca 3480
gtgtcgagga caataccaac aggtttgtcg gggatgcagc ggagtacaac agcccagggg 3540
atgcaaccaa atgcgcaagc gatacaaacg cccactgca cgctgggttat ctcgcggacg 3600
ttgaaggcct cgccgccaac gtagataatc atgacttggc cggcgaccat tatgcagttg 3660
atgccaatga accaatagtt gcgatgcatg ccttcgaaaa tgttgagttt attatcaagt 3720
cggcggttgt tgaattcatt gaatatctgc atccagacaa aggtgttgaa gacgatagta 3780
tcgagctggc ggtggcggat gtctgggttg gaagacaggt agtctgacag gatactgtca 3840
ccggcgaaat agagcatgaa tgtgatgcca agctgataaa tggcctgacc gaggatcatc 3900
ttccacatgg tcaccgtgaa gagcgaggcg ctcttgggca cgggcttgcg gatgaggact 3960
cttgtctgtt ggcgcgtcag ttgcaaatga aagcgagca aaggtgtcca tgatcagatt 4020
cacccaaagc agcccaaggg cgctgagcac actctgt 4057

<210> 2834
 <211> 2454
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2834

taaaatttgg cggattgttc agaaaaaat aaaaacgtgc atcttcctag aaagagtcgc 60
 cccttccccg acaaaaggag cgcgacgggt taattaaaca cctcccttgg aatcccaa 120
 attaccctgc gccctctagc cagaaacctc tttcgtaag cggtcagaac aagcttttgg 180
 cccacagaca tgcagttaac aattggcgta ctttcaaagc ggcgtgatgt tcgccaacac 240
 cggagcaagt catttacaat gctaattgagg aagttcgaaa tcggggaacg gcgttctatg 300
 ccttctcaaa aaatgaggaa gtgcgcaaga agcaaatgga ggagttatta aatgcaaggg 360
 tcaagacgggt aaaggaaagg gaagcgagga gggaacggcg tcttgagcgg cagaggttaa 420
 aagatgagag gaggaaggag attgaaaagc tgagggcgaa aaggcgcgcg gagatgtttc 480
 tttctgggct tacggatgtt gatatcggag tttcggggta gcttcgcttt ttctgatgct 540
 tggagtcggg ggttgtgttc agtattagca cctgatttga gataccatt atagttttgt 600
 tggccacttt tattttaact ctaattcaac catataatac taaataaccc agttgtacat 660
 gcttccctaa taaacttagc tcgaatgcgc catgctaagc cgcagcctgc aatcaaatc 720
 caaacgaaaa caatgctgag tcttgctcca gaataaggaa ccgtatcagt cataacgcgt 780
 aaatcgtaag tcatgtttct gcagggcata tccaggccca ttattaagta gtcttctgtc 840
 gttatgtcac cattattgcc agttgttgcc gagttgtaaa accaataatc agtattattt 900
 ataataatct tcaagtgtag accgtaagcg gtagatcata tcctcccatc ggcgagttcc 960
 gccatgatat gtataaatcc ttcagcgtct attgattgtt agtgaaacaa aaccagagaa 1020
 acgatcgaga tatgcaggta cggcttacct tcacgattca tgaatttcag cagggtcccc 1080
 cccttatgcg ttttcggggg agtgtagtca ggaaatgtaa aaatgggtctg ggagagttct 1140
 cggagtatga tgaattttgg gtgcgctca actatacgga gccaccgggg ggttcggacg 1200
 aggtccgtta tgaacgtcgt ccagacaggg gatctgtcat tgtagctct taatatttca 1260
 gggaacgcgc gcgtagacac ctcttcattt cgcctttgtg gactgaggct tggagcctta 1320
 ctgcaccggg gacagtgtcc tatatacgcg caaggcatgc acgaagccat catctattat 1380
 tgggtctactt aatcagcctc taatccaaaa tagcgggtga ctgacttacg atgctattag 1440

ctctgttctg tggaaaagct catagtggcg aatctgcgac acaggccggg ctgaatcctg 1500
 agagcgaagc gccaggaatg tgcagaagaa aagcaccatc actgcaaaag aatcagccat 1560
 gtcactcaaa tatggtgact caaacgtact ttcaattgtg ctgaatttga gggtcgccca 1620
 aaccaccaat tcggagccgc tcttgcggcg tcggcatagg ttcaggcatg acgggcccgc 1680
 cctgttgatc tccagcaagt tcaatggaag gcaataataa tctccagact ggccgcatac 1740
 aatgcgagca cgggtggtcg catcccgaac atagaaaagc acgcgaaagt tgccgccgaa 1800
 agacctatgc ctgttagtgc agccatcgaa ggctcaaaac taaacagctc ttacaattca 1860
 aggagttttg tgaagtcctc agcatcaagc cattcaaaca agtcgggctg tggatcccat 1920
 agcaaagc cctgccggat gtattagtat agtcttcgtc agctagatgc tgggtccgca 1980
 cctatcgccc cttgctggaa gccgcgtctc cgtacgcggt tgaaagaaca cctgcgctgc 2040
 ccagtgttcg ttcgctatat tagaacccaa tgaatgactg gccgcggagc tagtcacagg 2100
 cgagcttggg acggcgggag ctccgggaag tgggatgtcg agaaaagacc ctgaggaagg 2160
 tgaagtaggt actggtgaga gatgcaccgg ccgggctcgt tcataagacc tgcgagtgcg 2220
 aggtttacga tcaccattg ggctgtttgg ggcggtgctg ttgctgcttg aggacgagga 2280
 gctcaccggac aatgcgccga gacgccgagc gagatggcca tctgtttta ctaacagttc 2340
 ttgaaactgt tcgcgcaggc gagacatgaa caagtagtgc ggtccagctc tactcatagc 2400
 acatattagc tccaagacca attgagaatt ggggccactc actccttgat caag 2454

<210> 2835
 <211> 1885
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2835

ttgctgggca gtgaggacac ggtcgcggtg gtgcgtggta gccagaaca tcatctcatc 60
 gcgcacaaag atgctgagct gttgttcgag ctcatggcgt ggctctgtca agcagcgagc 120
 aatggccatg attgcgcagg caaagagacc ttctgtggca attggtecca tgagcgtctg 180
 gatgtttggt gtaaggcgga aaggcacctg ctccgggtta aagaagaacg cttgttcgg 240
 gttgataatg ggaatgagtt cagagcccca gatgtcacca gtcgagcgtg agatcatgat 300
 tttgttaggg taccggttgc ccatgtgcat catataggtc atgaatgcaa gagccgcata 360

ttgataagcg aactggcgctc ggaaaagcca gaagtccgag aagtttggat agatcttctg 420
 gaagtagtcc agcaccatcg tcggaggaac ccatttttct tggatagccg tgagcatttc 480
 ggttctgaga acctgctgct gttcgggtggt acgctagaat catcagttgc cgttgaaatc 540
 agtgtcagca atgcaettac attttgtttt gtctctgcc aagccctcat cttctccatt 600
 gtgaaaagga caggctcgctc cttgttgatg ccaattcgctc ggcagtaatc ctctagatc 660
 ccttgcatgg agatatacga agggctcgctc cgaaccaagc ggatatgagg agccaaagga 720
 accatgagag gcagggtggaa attgaggttt cgcgcagcgc tctccttgcg cttgcccac 780
 actccattga agatgcggaa caattgcaga attcgctcct cgcgccggca gtgtcgagcg 840
 gcaggatgtt ggacagcaaa aggatgaaca ctgccgctgt gaccgcgaat cttcagccga 900
 cgggtggcaga caccaatgcc ggggaccaa tctatgtcag gcaagaagcg atcgatgcga 960
 atgaagtcct ggttcttgct cttgtgctgt agatactgac ctgggatctc aacctcatca 1020
 aacttgagga agcgggaattc actgagggtgc ggggagtagg tttccaagaa ctgaatctgg 1080
 ggtcgctgat cgagtttttc ctgaacttg tcccgccagc gtcggagttt ctgaatgtat 1140
 tcgtacatgg ttggcttcct gacgacaaag tcggcctcaa aagatttccg aatatgagcg 1200
 ggaaggatgg tctcagcgaa gcgggttatg ttagcttccg tcgccgcagg cagcttgaag 1260
 tcctgggcgt acgagccagg catgcggcca acataagcca gaccatcgtt caacagcgcc 1320
 acgatcaggc ggtacgcata ctcatcgggc gggcacttga aattcttggt gatttgatcc 1380
 accatagtct gcattgacaa agcgagcaag ggaaacgcgg tcttaaggcc agacatgata 1440
 tcgtcagagt actcccaagg tttcttcagt ggttcctttt ccggctccgc tccagcggct 1500
 ggattctgct gtgcaggctg aggttgctgt ccaggtaact ggagattctg ctgcccttgc 1560
 ggttggttgc gctgctgttg ttgtggaacc tggttttgag aagcgccttg ggtatgccca 1620
 gggggcagag taggtttctg aacaggactt tgaccgttga catggccctg agattgccct 1680
 tgctgctgag actgaggctg accttgacct ggaccttggg gctgagactg gccctggggg 1740
 tgattctgta cagactgctg gccagctggg cgactgggag aagcctgtgt ttgagcgggc 1800
 ggtgccacgt tagcagcttg cgttccattc actggtggcg taggcttatt ttgcgggtgag 1860
 gcttggggcc cggcaccggc tagct 1885

<210> 2836
 <211> 5342
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2836

```

aacctgtacc caacatacat gcgcttctct tttgagtgt cttcatgtgt ctcttcaagt 60
gtcttgccctc ttgcaccggc cgtgcaacca ggctctttgc atttgaactg cacctgcttg 120
atgacctgtg gtagttctct agcattaagt tttgcttaga ggtctgtcgt cggagcatct 180
tcctagaagc cagcgatgc gccctctgaa acccgtcgcg gtagactggc gagggctgga 240
aatcgccat gtattcgac ggccccctg aaagccggct cagcggggta tcggccccctg 300
accctgtccc aagggagcaa gacctgattg gggtagtggg gctatgttgt ttgaatgcac 360
taagagaggt cggaaagtct gtatatgatg gtgggtggagt aactgggcca acttgtgatg 420
gcgcaatagt ttgcggcgca atcgagtccc caagattcat ccatggcaac atgttattca 480
ttgacatgga cgaagacatc gaactcggga ctcgctcggg ttggtggaat attgaccgtg 540
ataggcaagg attggtcgtg gactctggta ggtaagcagc tgcctggtga cggtagttgt 600
tggtggtgtt gcgcgccatg gttgggtact gatgcatgcc ttgatggtaa gcgagtcctt 660
gagcgacatg atcataagac ttgggtgctt ctgagggcat ccacagtgt tcaatattct 720
catcgatatcc agagagaaag tcgggcatag gcattcgttc ctgcccttcc atgctaccgt 780
atggaagtcc cagactctcc gtggacgcca tacctgctag gcgaaaggca ctgcgcatcg 840
aagcagaacc aggagttcgt tcgtacgtgt tggtggggag tgatcctgct ccgtgccaac 900
cgggtgattc caggagccc tggctatata tacttggttg agttggtgta ggagactcga 960
gcggcgagaa gctcgaggtc atagacgggc actcgttgga gcccagggac gaacaatcaa 1020
cttcaacggg cagacgatcg gacaggctgg actgatttcg catgtcttcg agcgacgggg 1080
cgctgcgacg ctcttgaggg ggtgctgtga cttgttcacc tgccagagca ccgttcagtt 1140
tacgttccct aagctttgca gaatctgctg cgatgattga atgagataga gagacagaag 1200
atgtgggata acaatgagcg ggatggcttc taaggccggg ggggtggagg ccagtggagg 1260
ccagtgaagg aatgaaagag ggctaattctc ggcagcagta aaagtctgtg cagaagaaga 1320
gcaaagcaaa agaatgaaga ccagagcggg tgtaaggga aacgattgagt gagtgaatga 1380
gcgagttggt cagcacaatg aatgaagggt gggcccccg aatggaggag gagcggcgga 1440

```

tgaaataaac ccatgcgag ggaatcaatg gaggcgggta gaaacagccc cgcgagagatc 1500
 gtcgtactca ctgagggcag tcattacttt tccccaaagg agaagtgccca gccagagtct 1560
 aagagcaaag gctgaaggag gggcgcggtt gcgttcctgt ccaggtcccg agcaaaggcc 1620
 aggaatgtag gctatcgagt tcctagagta cccgccagag ctgccctggt ctggacaact 1680
 gtgaacagag ggctggacta gctgtttccc gggagaggcc tgtgtctctg gataaaaggc 1740
 gttgaagggt tgcgcagaag ggaagaacga ggtcgagggg ttcaatagac ccgcccttaa 1800
 acgcgatgtc cggatcctgg gtctcaaccc gcacgtagat cggaggcgtt ggaggaggat 1860
 gcagtgggct gactggacag caaagtaatt cgtgtctcag ttgcagaggg acgtcgttct 1920
 agatgatcag atgagggcca gcaaggggat ggaagtgaat caacggggat ggaccgatgt 1980
 ctgagcgga tctggatgat gatgcagggt gtggtttagg tgtgaggatg acgatgatga 2040
 tgatgatgat gatgatgtta atggagatgt tgggagggtca aagataatat accctggcac 2100
 ttgaggcaga tcgatggctt ggggtgtcaa gagactgcga ctgaagccca aagtggtaaa 2160
 agggagtcac tgtatggaga gcagagcaga gagaaagtgg catccctcac gtctgccaac 2220
 ctggagggcg agaggggtgcg attattattt cgaatcttaa tctattttgc gttgccttga 2280
 ttttaattct cctggttaat ttatcgccaa tattcctttt tcctgccttt ctgoggtggg 2340
 cctccatgct ccaacagacg gccacaatgg ctgataccgg acctgcattt ctccatctcc 2400
 cgaccactac gctttatttt tatcgccctg aggaatgcac gacctggaac acttccgagc 2460
 catccatcca gagcccgaca gaaagcgaaa ctgagcaaaa aatgcttcga cgtaagagag 2520
 tgcttgctcg gtatcagaag actcgctgg aactaggtcc agtagatagt actgtatcat 2580
 ttaggcttcc atgacgatcc tggagaacta atctgaatca caatcattat tgccgcccc 2640
 tagagatgga tcgtcaccag gattgaccga ccctgctcca cgattgttaa cctgcagggc 2700
 ctcaagtgat cggcaaagat tgacgaacag tgtgggggtt ggcgtttttt gtttcgatga 2760
 aacgtagcca gtgctagttc ctggatatag gggaaacgcg gtgatgttcg aagatccgtt 2820
 cagaaccagc caaatcatct agactgctca gtcggaacgt gatggcaaat accagcagca 2880
 ccatgcagag gcaaaccagc ccaagccaaa gtgggatacg gctggctcca ttcaatattg 2940
 cctcctgtgc tgtggctgaa tatgcataaa cacggccaat cggctctgcg ttggtgccgc 3000
 tcaaaagaag acgtgctctg accttcattt accgaaactt cagtctaccg aagtggactc 3060

gagagctatg cgacgttgag tttttgcctc attcctctcc aagtacggga tcgtcattct 3120
actcgactga tacggcaaag gctggcaacg gctgatggcc aatgcgacct ccaggtgctg 3180
gatgacgcat tctactggag accatcaatc gctagagctg ctgcatgact ctccagattt 3240
cgaagagatg tgtcgaggta gtctgaggac gtggacgacg gagggatctt gaggagctta 3300
tttcgcaaac aagtcgag tagtaaaca actaggcacc gtccaataaa cccaattatc 3360
catggttccc actgctgtc attccacggt tggagaaggc gtttgctgat tcaggtctgt 3420
gcgaacctgg ttccaactgc aggacaggtc cagggccgtc cagctagcct agattggagg 3480
actaggtcga ttcttcgac agctactcta aacggctggt gcttcagta cccggctgca 3540
catctcgatt ctaaccggtc gactcggccg cggccagtaa gatcctagtc gccgaattat 3600
ttcttcttcc accgattgtt ttcttctgtt ggcacgctag gacggcactc aatctagaat 3660
cgtggtccac agggctgagg aacgatcgga gactaaaagc gtcgacgac agaaatggat 3720
tgagtagtac ggaggacggg cttgaactta atcctcgacc ttccttgagg agcccgctcc 3780
ttgcccacat cctcgactct cgaggcctcg gcgctgattt ggtcacaagt ggctggtgct 3840
tattgtgcaa caagcgggag actgcagtcg cggggcgaga gtcgctctcg cccctccccg 3900
tccccgagtc ctccccggcg tacttcagaa ctgcgagcag agacgcaaaa gtacggcagc 3960
cttcttctctc agcgatcggc ggtgtccact gtctggtatg gacgaatcaa ggctcgaacg 4020
gactaagact cttggccggc aatcatggct ggaatagagt aagcaggatc attatagtgt 4080
ggttgtctgc tgccgggctc tcgatgcaca tcatcagggc ttatttgta gtcttgcga 4140
ggattcggcc aatcaagcat ccattgtgtt gtttgactga gctgcttagg aagtcgaggc 4200
tcagaagccg cgactaacgc tgacgatcag ctttctcccc acttgggccc ggacagctc 4260
ggaacgcttt gactcggctg gagactgggt ctgggaggac ttagaagggg atccattgct 4320
tctggaatgt ggatgctcaa agctcaatcg tcgatgcaag acgaagacgc tgcactcgcg 4380
tcaggatcga cgggtgtggac ctgctgtcac ctaccgccc tcgctctttt caatggcctc 4440
tgcggtcatg gggagctgca tctacagtat cgaattctac accgtactgc tgctcttctg 4500
tcgtcctggt gcatggctgc tcgcttctgt catccgccag tttaccactt cctctgttat 4560
tcactgaccg tctccagagg tacgttcagt taactcgact cctgactgat caagaactca 4620
catgagcctc gtctgagcg tctgacatgt cattgatcca tcgaacttcg aattgagtag 4680

agcttgggtgc cgcgagcta cccagagggtg tagctgagga ccttcctatt ctatcccatg 4740
 aaatgggtggg ttaaagggca atggcctaac tcgataaaac gcgtgtcact gcgcatcatt 4800
 cgtacctaac attgcttcgt ctgaggtctg aaccaggtt gatcccggtt agttgacata 4860
 gcggagttat ggtactgggc gcgagcacac tttccacagg gttgtcacta cggtgcggtt 4920
 caacccttgg cttaaagtta acgtggttgg taagcgagct gcgcatgtaa gcgagctgcg 4980
 cacctgcata cagatttccc atattttgac cttttaatca accacaacgc ctttatatta 5040
 attattatatt atttggacaa gcatttcttc tatgcccaat tctatggcag gtactacatg 5100
 taggtaatgc ccgtgccttt ggtgtttgtg caccttctgc tgggtggccc catggaccag 5160
 gtattgcctg aaaagacgca ttatgagctt cctcgagctc tgtagcctct tgtacagaca 5220
 gaccattatc atgagctatc catctatgcg tacgagctcg ctttcgcctt tgtatagcat 5280
 tttcagcacg tagcgcccta ttctcttgct ccaatagtat gcccttttgc attgaatttg 5340
 ac 5342

<210> 2837
 <211> 1500
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2837

tctaggaacg taaataaact tgttgttatt atgttgagtg cacgggtccgc atctcgttct 60
 tcaatgacac atgaaatatt gatttcgctt gcacctaaaga tgaacttagt tagtttcgca 120
 ttatccaaga ccaagaataa taactgttac cttgagaaat catctcaata ttgacattgt 180
 tctctcccag agtagagaac atgcgcccag ccaactccaac catgttcttc atttgctttc 240
 cgacaaggct aagaatagcc atcccaggaa ttatatcgac ggtaccatat ctctgtaaat 300
 cactcaaagc tcccttcaaa tcttcgtcga tgatttgata ttcattccctc ccaacaccat 360
 tcagaagcgg cctttctgag tgaagagcca ttgacacgtg gacttcgctg gtcgatatca 420
 gatcaatcga cagcttccaa cggtcgagaa ccgagaatat tcctgcgaag aatccatgag 480
 agagagaccg cttgttgga tgaacattaa tgacgaggat gttgtgcttg atggtaacag 540
 cggttgggcg cttagggcgt tgaagaaggc tagggctcct tgtacggaat agtctcgat 600
 cgtggccggg cgtcgtcctt tccaactcat aggtggaatc tgggaatatc acggttccgt 660

cgcctttcgg attcataaca ttttttatcc ggatgggtat tttggcacgg ataacttggt 720
 ccattgtgaa gggatggatc acctccgagc cataaaaagt caactccgcg gcttcagcgg 780
 gtgttatcgc tggtagaaga cgggcgggtg gcactttccg ggggtccgca gtgaaaatcc 840
 catcaacctc tttccatact tgaagttccc cagcctgtac gccaacggcg accagagcag 900
 cacaaagatc agtgtatcca cggccgatct gatcgagaag gcctcccggt atcgttccaa 960
 aatatcccgat gatgactgga actttatattt cgcaggcatg taccttgoga ccaagagcag 1020
 ccgcaagatt gtcataaaac tcttgggtcaa ggcttgacc tgaaatgtga aaatcaacga 1080
 tttcagacag gtcgacgtac tccgagtcga ctctcgatc ctgtaagaat gcggccatca 1140
 ggcggcaact caacttctct cgggtgctta tcactttatc cacacaacgc gcactgattt 1200
 cgccaagagt ctgagcagct tccaggacct tgaggaccgg ttgcgattcg gcgttgatcg 1260
 ctgaggtaag ctgcgtcctg agttcagcag aattgatctg gctctcgacg acgtcgacat 1320
 gttccaaccg gacggcctcg acaaataaaa gatattgttt ggactgagaa ttctctgcat 1380
 cgcgtgcggc tcggagtaag ctgttcatag ttgtaaggcc aaattttggg tgataattta 1440
 ctgcaactct ccatgagtcg cgctgcaacg tgtgactcac cgattcgggt gccttcaact 1500

<210> 2838
 <211> 2292
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2838

ccgagagcac ccgccgtata taggctacga cgcgagctac tttctcccaa tcaatttctt 60
 ctccatcagg ggtattatag ctgccttcc acaagtttct ccatatggca gccctagca 120
 cggcatcgcc cttgataaga cctcatcgt atgcagcgag aacaccacgc cactgaatga 180
 agagatcctt cagaaacttg tttctgatgg cagggttgt caatccgtgt aaaacatcca 240
 tgcgatactc agcattatgc gagaagtggg cgatcaaata gcgcgagtag gtctgcaaac 300
 tgtcacggga gggcaacgcc cgcagccgaa ccatcaaaag gtacatatgt aaaaatgtga 360
 tttgtgacca tgtcgagaat gtcggaacaa ggcccaactc tggattataa gacgtcagcg 420
 ccaatggctc gacgtcaaat aactgcatag gggaaagcag acctttatac caccatccct 480
 ctccaacacc cagatcctcc ccagcttcgg tcttaggaac ctgagccctt tttcttttca 540

gctgcgggat cgtgtaatcc ccctgcttgg aacaagcctc gaataatctc tgggtcattc 600
cgtaggcaat atattgttcg gcgcacccc cggggcgttg cgccatcggg acaatctttt 660
tcgcaagtcg gggcaagaaa ccagaagcat acctacagct ctgtgccttt gagccagaga 720
gctgtgcaga tgctcgtcgt cggaaggagg cattctggag ctctaaccgc ggtagtcggg 780
agtttacagc ttcacgcgag ttcgctgaca ttgtgcatag tgagcgttga gttgatgtga 840
acaatggtag aggcagtta gagaattgtg tctgcgttct cagtcagttg aaccaacgaa 900
attgtttctg ccgacagttg ctatagcttg tatcccgcaa cagctgctcg ggcggaaagg 960
ggctatatgt acctgaaact tgatagattg atgagtgagg tattgggacc ccaatctatc 1020
aaagtatctg ggaggcattt ttgaatgact tagagactgc gccgtgagga atacttactg 1080
cttcagcgct attaccaagc ctgacctgag actagtacaa aattccggga tgatgtcgac 1140
cgtttgcact gtttgacgca tcggtttaag taatacatgc tctgattggc agatccaagt 1200
ctactgtgag gcctgctacc tcaaagtatg agcttttaca tgataaatgc gctacaagtg 1260
tgagtcaaga attccacttg attgcatatg cttgttttat gttgcgatgg ccatttgata 1320
tatcaccgcg ctgcgtgcat ggctcgaga aatgctctca caggcctgaa acgctgtgct 1380
gagttgatag acgcccggct ggcggttcga actggatgct agtgagcagg tcgcggatat 1440
gcgtctggat atagttccct cggctctatca agatcttcga ggaacttgct cgcacctcta 1500
tgccaaacaa tattctctcg tacgaacagt ctctgctact caatctatcc gtcgagaacc 1560
acgcgttcta gtcgtcggtc aacaagggga agaagttcgg agagcctgtt agggtccttc 1620
atgatagcgg gtatatcatc ccgtgcgctt gctaacttct atgttgatga gttagccttg 1680
gaattccttg gctctcacag cgaaccaccc tgtctgacga tgccgtaatc acactcttg 1740
gactgatact cccttataac ttctgatttc tcgaaatcga catataccct ggtgtcccga 1800
agtcggaaaa gaacgttgtc taatctcaag aagaaccgcg agagaagaag aagtctgtcc 1860
tgcataacgc gaattttaca agacagcata gtaataccat tatcggcgag ttcatcttcg 1920
tacaatatta cttcatcgaa gaaaagtatt gggtcagggc gtttcagcag ttcaatgggt 1980
atgggctttg aggtctctc gaagtcgggg ccttgaatgg acaatacagt gccctcgtag 2040
tctgtactgt aggaccagac aaatgggatg atgacatctt tgataccttc atgagttgtc 2100
tctctgcaa tatatcagcc gtccccgaac cggtcacaac caaatgcgcg aacgcacctg 2160

gttttttgcc atccttttcga atgagcgcgc taaagcattg attctaccgt atgatcaacg 2220
 cggctaaggc tgtcaaagcg ttgaagtga agctccatcc actcttagca tgctgaaccg 2280
 aaacaaaggt at 2292

<210> 2839
 <211> 1453
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2839

gaggatatatc acatggcgca cattcggcgt gcattgtttg tttaagaaaa tgagttgata 60
 tgtagtatta gactacattt ccccttcttc acttccacca ccctcatcat ccggctctgg 120
 ttccggaggc ggccggcgag gaggttgctg actatgttca ggtgggtggag gtggcgggtg 180
 ctcatctctg gtagaggaag aatacgcagg tcttcgttgc tgataagcgt cctcgtcatc 240
 tcgatcccggt tccctatatt tgcgcggcgt ggccgcgtttg ggaggtacag agttttgttg 300
 cacgatctga tcgatgcgtt gctgaatggt atcgacgttt ttagtttctc tatttcgggtg 360
 cggcggcaat gttgttcgag gtgcggatgg gagggggtgt tggtagcgtt gggattgatg 420
 agcgtggtga ccgtttggcg ggccggtcgtg ggaaaaggat gaagacgctt gcggcgattg 480
 tggatgatgtt gtaggagggg gtggatgcgt cccgccttgc ggcagtgacc ctgcggcaga 540
 gcgaggttga tctgcgtctg aacctactcg gggccgtttt ggcgagcggg ccccgctctg 600
 agaggcttcc tcttttttca aggatgcggt gtcctgtgag ggttgctggc tgctttttga 660
 actgtcctct ggctcccgcg agcgcttctt ggagcttggg tctgggtggtg cgtcgagtga 720
 gccaccagga cgcggaatcc tggctctttt agcaccttct ttccaagcta atggaacggg 780
 tgggtagtac tggctgtgtc tatgttgcca attgctttcg tatagctctg ccatccgggt 840
 gcatgcgcgg cgaacctgtg ctatatcaac gtcgatctgc tcccaccagg atcggccgaa 900
 ttcacatcc tcaaatacaa tatcacagt gctagcggct gcataaaagg cagcagcagc 960
 gataacgcgg gctggaaact ggaggcaaag aaccgtgtac atggaatcgt tgagaaaagc 1020
 ccaggatgaa ttgcgaatat gcttgttgtc gttgacgcgg aagaaacaga taaaatcgta 1080
 gaggatccta tatggctgtt cgagctgcag atcgaagcat agcgcttcga gcagaatgtc 1140
 ttcgtggtga aggatggtat cgcgccactt ccaaaactct ttggattgct catccacaac 1200

cagatccggc tttttctgtg caaccggca gacggctatc accagctttt tcaccccttcg 1260
gacattcttc ttcacttttg tagctaaaaa aagggatgta gcggcaatgg ggtaccggtg 1320
gattccccgt cgtccggct tgcggctat cgcatttgc atgaagaagc gatggaggta 1380
aactgcggct gtcgcgagg taggctgcgg caacttcaac atgatttcaa actgagtgat 1440
gaagttgact tct 1453

<210> 2840
<211> 1523
<212> DNA
<213> *Aspergillus nidulans*

<400> 2840

aacccccca aggggagata gagaagtcga ttgtgatttt agagagagga gaatacgaga 60
attagccgat gtgggataga gcaaatgaga ggcatgagag ttagggagta tcgcaattga 120
aaagctgaag ccgaaattcg aaaggtgcat gaaccgcaa aagattcccc ggaattttgc 180
agaataattt tcccgtatga aagcgtctg accaaacacc cttcttcacg ggtcggggcc 240
tgaaaatcgc gcccgcaatt cgatcaaaga cccaacgggt gataaaatac cacggatcca 300
gagccaaaaa ccgcgccctg ggctggcaat atcggagagg tagtcttcgt gcaaggggtc 360
aatgagaaaa atgcccttg tttcaaggag gtggcggctt gcaaagatac ggctgtatat 420
gcttcctatg cctgcagaga ggagaacgaa agggccctct tcaccggcca gggccagcgc 480
ttcggagagt gcgtcggagg ccatacctgc agagaaggga gatgggtcgt tgcggacca 540
agccataccc ggtctgtccc agtagcagta gcgtgggatg gcgccctttt gatagagctc 600
gttgataaag ggttgtagag tgtgctcgac ggggccttcg ccagcctcga ggaggactgt 660
ggaaggggag ttgctgtaag atgaattgcc aacacagtcg aggtggactt ggtagttgtg 720
cgcgctgacc cagtatttct ggccaggagc atgaagggtc gcgtcgcgcg cacggagggc 780
gagtgttatc ataaacagga tcgatatgat tgctataaga gccatgaaaa gagtctcagt 840
caggacagca agccattccc gtaaagtcca gcgggtttcc tcgcgccctg tcaggcgttc 900
ttcctcttcg cgtttacccc aagcaacgta gcggttctgg atgatgttgt agagtgccat 960
gaggaatgcc catactacac tggcaattcc gaccagcct tcttcaacgc gaatagatgg 1020
tacggccact gttatacaca tatcgatgaa taagaatata gcaagcacga aacccacac 1080

cgtcattggc tttgacggga ccgagaaaaa gaggagcccg aacaggatgt atccaaccgt 1140
 taacgtggta tatgcaaata cgaaaaaacc tgatccgcgc gtgtgcagtg ccggtgcact 1200
 gacgaagagg gagacgagta gaaatgtcca ccagatgaag ctgactgcga ggaatgcggt 1260
 cgaaaggccg cgcagagccc ggacactcca gaggtttagt ggggagacct ggtcgagaag 1320
 ctacatcagt caccgcgtaaa tcatgaagtc agaaatgtat gagcctacgg caggatcatc 1380
 gggactcaga tactgctcgc gctcgcgtgg caggagctgc gttctctcat cgggagcacg 1440
 gtgctctccc tcgattcccc cctcatgacg ctgcgcgtct cgccaagca ttctgttgat 1500
 gaaattgacc atggtctttg gta 1523

<210> 2841
 <211> 1523
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2841

aagatcgtaa ttcagcacc actaccgcca tccattcca tcggacaagg cctgcagtgc 60
 ctgcgttggt tctcaacttc tgccccgtac cctgcgacac gagaagacac ccaccagccc 120
 ccatatccac tatggcctca ttgcgtccgg aaaccagggt atcaaagaca gtagaatccg 180
 cgaccacctc gcgcgccagt ctggaatcct gtgtttcgag atggaggctg ccgggctgct 240
 ggataatttc cctcccttg ttatccgcgg aatcgagac tatgcagact ccgtaagaa 300
 cgatgcgtgg cagggatatg cagctgcgac agctgcggca tacgcgaaag agctattatg 360
 ggatcatccc atgcaagagg ttgaagatca gccgttggct gtggggtttc cttcaaagtg 420
 atcttggctg ccggtgtcct ggttgaatgg tattgtacaa ctaatagagg ataacaaaaa 480
 atacaatatg gaaggcatgc tggacaaggc catcatttat caatattaca acaggctgta 540
 aattcgtaat tagtgtagaa ctaattatcc ttgtcctact catcacgcat agaccatgac 600
 aaaaccctaa cctgagggtc aggtcgaggg tcagggtacg ggtttttggg taaccacagg 660
 caagccgcca agaaccatt ttgcacatat ctccctagta gacaatatct tttgcataaa 720
 agatgctgat cgcctgaaca cttggttcat acagcgtgtt tgtactgttt gcaagccgcg 780
 aggttaccca aaatccgtac aggtttaga cttagaccgg tcccaacc gatccatcac 840
 gagttttggc ttgaccgtga tgtataactc gcgtcatgtc aaggtctagt catgcattcc 900

ctgtgctgaa gaagggctat tggatatttt tgtggaaagc acatgcaatt taaagggaga 960
 agggcagatt gaactgtatc aactacacga gcgtagccta ctaacctact atggagcgga 1020
 tgtccttaat cattgactct atcctgctgg cgataaatgc ttttgtttca cttacacatt 1080
 gagggtcaga tcctcaggtc agagagacca ggctgctata tcacatgacg ttatgcagcc 1140
 agtagtctta tcgtgcactg gtaccagga ttagcattac atgatatttc tatactcttg 1200
 tagattttta tatctcgtct gcagactttc tctctagctc ttatttccag gtcactacct 1260
 cctccagata ctttttaact cagatcaaag tatcatgcct gcaggcaaaa tccttgacca 1320
 tccgaaaagg atatcatttt ttatgtttat atcttgtcca ggatacagct tgcattgcac 1380
 cctttttgat gcataccaaa tgcggcagta ttgccatccg ccaaacgaac ttcaatattt 1440
 gagaactccc tgagcagatc aaaatgcaca taatgatata ttattgctg aaccagggta 1500
 tccacacagg gagagacatc atc 1523

<210> 2842
 <211> 1953
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2842

ccatgccttg tcagggaact ctgcgaacca tggctcctcc gcagccaact gtcaacatgg 60
 agccggcctg gctccattca ccaaagtggc tgggtcgagt agcaagccag aagaagcctt 120
 ttgagcggag gatggggccg aagggaactt tgcgcttggt ggcgaggatc agggattgat 180
 cgggctggga gaagtcagt atttcagtat cgctgtcttc ctctcctgat tctgaggtgt 240
 tagcgttgga atactcatcc tcctcatcct tctcatcctc ctctcttctt ccatcttctt 300
 cgttatcgcc atgggtcatga ctgtttaggg attgaaggag gatgaatttg tcgtggatga 360
 gagagaacag tcgacgtgga tgaaatggcc gtctagccat gtagacgaag ttattgatcc 420
 catacctgca gtcaataatc agcaaccatt cactcactct cccaaactaa aaatgtgggc 480
 aacatactcc aaggtctccg gcctaggcgc aacccttttc ccaactccag tcgtaaggac 540
 actcatctca tgcaaacctc tcaaccatcc cgccccgctc gcagccttga ggaaatcaaa 600
 tctgcccgtc ccaataatct ctttcacatc aacacgacta tagctcgtct cgataagctt 660
 cgcacccgga ttcagcattc caattaaccg cctgatcttg ttctttgtct gctcgtccac 720

agtctcgatc ttgttcatga tcagcacgtc agcgaactcg atttggtcga ccataagatc 780
 ggaaatcgtg cgttcatctt cagggatgat tgcgttggac ccgtatcggc cacttaggaa 840
 ctcggtctga tcgaagttgg agaggagatt gaaggtgtcg atcacggtga cggttgtgtc 900
 gaggcgggag aggggtgtgca ggccaccgat tctggctcta tcgttatcca gcttattagc 960
 atggcctcat gatcgcgctg cgagtggagc tcaggggtga taaacgcaca tctcttccaa 1020
 aactttccta tcgtcttcgt ccaatccact cgcgccgcta ttaccctcac cctcaacatc 1080
 ttgggcccct tcaacttcca gcatagcagc actaaactcc gccgtaaaag tctcagctac 1140
 ctgcatcggc tcgctaatac ccgtactctc gatgacaacg taatcaactt ctttctgttt 1200
 ggtaagccgt gccagctcgg cgagcaagtc cccgcgtaat gtacagcata tacacccggt 1260
 ctgcagctga atgagctttt ctttcgtttg ggagacttta tgggtgcgtta tcagggctgc 1320
 atcaatgttg agactgaata ggttgcttat cagctggctg tcttggaggg tcgggtagag 1380
 tgaataaacg aaggcgtggg acttacgagc tcatgtcgtt aacaatcact gcaatgcgta 1440
 gaccgtggga gggggatttc aatatatggt caaggagggt tgtcttgccg cttccctggg 1500
 agattgtggg gtcagtcttt gtactgccg gcgtttctca cggattgggt gcgataggct 1560
 gggaggatgt agactggcgt accaggaacc ccgagagcag ggtgacgggg agttggcgtg 1620
 tttctccgtc tttggctatc atgaccgctt ttctatggat cctgtatact gaatggttac 1680
 tgacagaccg ataggttggg taatcagcta ctaatttcga tagaatctgt acggtctctg 1740
 tcatgaacct atctccgttg tgagccccgc aaaccaagt attcccccaa ggtatccggt 1800
 cttactctc tggtaatggg ctctactta accagacag catgtttccg gcaccaggct 1860
 aataatgacc tttcatagc agataatctg ccggatagcg tcccgtcgca ataaggacct 1920
 gtgttcgcta gagtctccct ctgataagt cca 1953

<210> 2843
 <211> 2566
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2843

gccttgaaat atctgaggta atacttccaa caacgagtct tgacatactc ccagctctat 60
 ccgctcgagg ccagttgcgg aatcctgtca ggggttgatc tagattccta cgtgttgat 120

ctgggtgaat caggcttttc tgtcacttat cgagagtatg tgaaaatcta ttagaaaaca 180
ggcatacctc cggctggctt gtggtagttg ttactctagc tagccagaag taccacctct 240
ctcccttcaa gacccgactt gacgacgcat tctcatcgc actcaaaaac agggtaagtc 300
tgagccgaag cagacagctc ttatgctggt cgcagccagt atgtgataat aggcagaacc 360
tcggcattgc attgcagtct caatatatct tcattcggcc aagctaaaca cctttatcac 420
cagtccttta cagatgagcc agcacgcat ccgcaccgga gacctatcg aaacagttag 480
cttcagccat cgaacgcaa aagccgaaat aaaaaagac gcacctcaac ggcacccttc 540
ttagtctcga tatccgcata cgtgaccttc ccatgatcaa tgatgatcgc ataccgcca 600
gttcgaccac cgctggccca tccaatggaa tcggagaatt tcgcgtcggg gtcggagagg 660
aacaactgta gcaagacaga caccacatta gcatgaaccg cgccttaaca aacggctaga 720
aaaggtgcag tacaatgtca tcaccggtaa cctggtttgc ctttcccag gcactcatca 780
cgaaggggtc attggacgct accaccgcaa cgatctggat gcccttttcc ttcagctcgg 840
gaaggttctt gatgtagccg gggaggtggt tcacggagca ggtaggagtg aacgcgccta 900
tgagcacgag tcagcataaa ccaagaaaaa cctcgcattt agaggggaat gacaagctca 960
ccaggaaccg agaacagAAC gactttcttg tctgcccact ccttggaggc atcgatattg 1020
attggaatgc cgcacgcggt gacctacccc ttgtcttcag accaggggat atactggaaa 1080
gagacgtcgc tgggaaaggg tcaccggcct tgagggagcc attttgtgaa tattagatca 1140
agaattggaa tgggaagagt gcagtgaggt ggaggaagga ggattgttga ctgccccgtc 1200
cagcgggacc gaggaccata aaagctatct cagtcattta tcagcggggc cagagagctc 1260
cgtcattgga ggtgggaaag gcaaattccc agccaatcaa cgtcgagcga tctacgtgct 1320
ttttatataa aggagtatgg taatcagaac aagactaccc taaacgtatc agagcttctc 1380
cccctgactg ctacggttct acttcaacag cgaaatgcaa gagaatcaac tgtatgaatc 1440
gaaaaacagg gatctgttta cctcggcgat cttcatgacc attgtcaaca ttgtcacata 1500
gtcacattgt cgaattgaca ctttttcaac attgtcaact attggaatat cgtagtttgc 1560
aaaccgccga gatcaatacg aggtaaaata cggaacgaag ctgaagcctc aaaagaaaat 1620
ccagaataac ccataacttc tgaacgttat tactattgat ctaggacagt gtgatacaca 1680
gtctcattcg cagccgatac tcttggctct actaagggcc ttaaattcttg agtattattc 1740

cagcagtccg aacgtctata attagccatg gcgtgacgga ggttggtatg tggcacgtga 1800
catgtgtgat atgggcgacc ggataacacg agctatgaca atgtcgtgaa ggacagtttc 1860
cttgccata ttgccgtaga caccggggat atatcattat gcggtgcggt aaggtggtgt 1920
aaagcagaaa ttggaaatat cgtaaatac ctaagataat gtcttgatat ggaaacggtg 1980
gctagatggc atatagatag tgaagtaggt tgtaaataga tagtagttag tatcgcccta 2040
tggcggatta gctggcttat agaaggatcc ctcgaccatc tagcccatga tagttatagc 2100
atagagagta gggctgatag atgctctgta gacaacaggg aacttccta tggcagacca 2160
gatggacaac ataggggcaa ccccggtcca cctggccac agattacata gcagataaac 2220
aacagtctat gacggactcc ggctgaacta tacgaggga acccctagcc caacctgtca 2280
gtccgcgcac agtatatggc taagtaaaga gcgcatatgt agccatggct aaataaagag 2340
cagacagata gcgagtagat cacggtagat gtaagaggaa aaaaagaaaa agagtgagga 2400
agagagagag aggcgggcat ttataccagg agcaggcagg tgccaggatt accaatccag 2460
ctttggattc caatacacgt ccgtacttgc tgggagttcc tgccctatca tttgcctaaa 2520
aggccgagcg cctgataaca aggatgtagc ataccagtat ggagaa 2566

<210> 2844
<211> 1392
<212> DNA
<213> *Aspergillus nidulans*
<400> 2844

ataaggaagc ttgcttctac atcatgcttc tacatctgca ggccggtcgg ctctacgata 60
ccactttcat aaggaagatg aataaaaagt ttatcagcat tgaggaaata cgtctatcta 120
cagtatatag tcctgttata tatatagtcg tctatctaaa aaatccacca ccagactcgc 180
tccaaccagt tccggggctg tcgctccata tcattctcgc acaaacggtc aatctcatcc 240
ttgccgtaa agatgtcaac ctctgacacc ttggtcaacc agggcggtccg gtaccagatc 300
ttatgtccag cataaagcgc aaggaagata gcaaaaacaa tgtacgagac caagaagtcc 360
gaagcagtga agcggcccgg gaagaacacc gcgtaccgt tcgtcaaggc caggatcgag 420
atgatgaaca tcacgtagta ggtaccgtat ggttgacgag ggtcttgaa tggtagcatg 480
tccagcatgc cgtggaattg cagggccttg cggaacgctg tttttggtca ggtgtgttca 540

gatgaagaga tggaggggaag cataccagat aggcgattcc gatcagaacc cagttgatga 600
acccgccaac ggtagtaata ttggtgaacc agtagaagac cgtctgtccg gagctagaca 660
gattaaggaa ggatagcagt ccgattgtcc atgtcgcaag aacagccaca tagggaacgc 720
cgggtgcggtt ggtgcgtgtg aagatctttg gggcctggcc ctcaccggcg agcgagtaca 780
gcgttctcga tccagcgtaa caccatgcgt taccggatga ccaggcagag atcaggatgg 840
cagcattgac gacatggttg agccctccaa taccagcgtt ttggatggca acgacgaatg 900
gactcgcgcc ggccctgac ccgccgcttt cgactccagc ctcaagggtg gggtcgttgt 960
aggccacagt gactccaata accaaactgc ccaggatata gaagggtgaaa acacggtaga 1020
tgaaccgctt ggtggctttg gggatgttcc gacgcggtgc ctcgacctct ccagcggctg 1080
tggatgatcaa ttcgggagag aaaatgaacg aaaaaccgga cttgatcagg gcagtcacaa 1140
acccaggaa tttgccagtg tccccgggaa ccaggtagcg attgaatgca cgggggtctt 1200
gccagtagcg gaaccctaag cggtcatgat ttgggcctcc accgaaaaac agcacaacgc 1260
ccaggataat cagaccgatg atggccaata ttttcagacc agcgaaccag aactcggatt 1320
ctccgtacca ctcgaccgag aagacgttca gggccaggat cactaggctt gttaccggct 1380
ggctttgggg tg 1392

<210> 2845
<211> 1066
<212> DNA
<213> *Aspergillus nidulans*

<400> 2845
ggcggaatca gaaaaatggc tgagcacgag tggatgaaga acgaacagct tggagctgtt 60
actggtctcc caaccagaga acattggaag gtaagctaaa cactgacact acccgggcct 120
ttccttggat ttatactgag gcggttgcgt gcggcgccca gggtcgcaa gccaaactgtc 180
tcgcgacatc ttgcgtgatc tgcgccgcca gttccatcat tccctgcgtc atggcccacc 240
aactgtgtta ctgggatact cgctcacatg atataggcgg actcggcttc ccgtagctgt 300
gactcgccca cctgtcgctc ctcgttcggt ctcttcctcc gtcgccatca ctgccgcat 360
tgcggccatg ttttctgttc ctcgcacact cctcatgtgg tccctctcga ccaggaagca 420
cgcttccacc cggacgggtg cccttctcga gcctgcgact tatgctggag tgcgtaccag 480

cgctgggaag aagcccggtgc tgagcgtcta agtaagatcc aacaatcgat cgactctcag 540
 gacgaggacg accagagctc cgatggccac agcccgacca gctctgtgga agcctcgctg 600
 gccgaggac gcaagcagga gcctaccaac ccaggccaga acagtgagat tgctgccagc 660
 gtccctcgctg gctggaactg gagcaccttc taatcggcta catcgacttc atcgactaca 720
 tcagctgcat cgacgaaatt tctatctaatt taatgagcct tcacattgat tgatgaggct 780
 ccgcgaccgc aacttcactt cgacacacca cttcttagac attttatccc aattgcttgg 840
 gcttgccgag ctttcgtcat ttacatggag ttcggctctcg cgatgttcac ggatctactt 900
 tcgctttcgt cgaggctctcc tctaattgtt tgatcgcttc tagatctggg aggcttcttc 960
 tattgtttgt ttctattcgc taggataccc tgtcatgcgt acacgttctg tttcccttct 1020
 tctgcttctc tttcatgtta atcttttatt tacaatggcg ttacga 1066

<210> 2846
 <211> 1662
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2846
 tgccttgcaa ccttggttatt atacaccaac gtccttctca agcccgccct tgatctgact 60
 cttaaagccc ttctttaacc tctccccca cttctcccta ctccgcttca tcgccatctc 120
 agtctctctc cacggataat tcaccggact ctacccccca gtgaagatca taaactcata 180
 aagaaaggcg ccaataaagg cgccacagaa gctgcctgcc cagggtccat agaaccagta 240
 cgggttgagg aagaggctgc ttccatagcc tagggctagg agtgctaate ttggcccgaa 300
 atcacgcgat ggggttagtg cagcaccagt ctggtaggaa aatgtgatgc tcagcgtgta 360
 caccattagc ccgacgacca gggcggtcat tctgcgcct ggtggcgctg tctggtcgctc 420
 gccagcgca agcacgggtca cagtgagcac gactgtaccg aggaactcgt tgaagaaggc 480
 cgtttgccgg ttgatccaag ggttgcggtg ggatgtgacg aagctgttga ggacgtttgt 540
 tgtactgctt gtgctgcttg tgctgatgga aagatattca tttatagagt cgtgggtacag 600
 cccgtagact gcaagcgagg caacaaacgc gccataaac tgggcccga agtactctgg 660
 cattttccgc ttgggaaatc cgcgataaaa ccagagcata cacgtgatgg ttgggttaag 720
 gtgtgcaccg gagacgccac cagagatgta gattgccatc atggctgcga aaccccgagg 780

ccaggctgtg gtattggggg ttgtggttcc gccgaggggtg acgctgagat ctgcgggcgag 840
 gccaacagtg agctggatga aaactgcgag agattcggcg agggcttcgc ggtggtgtgt 900
 gcgaatgacg ctccagactg tgtggttgtt gtgaacttct tcctcgacga ggtcctggac 960
 gagcgggtgc aggtcctccg ggtacgcagc ttcataaaaa tcaagctgat cggggcttat 1020
 ctcggtgat gggggctcct ctgggatgtg tacgtcctgg aggggttcat cacttaggtc 1080
 atgacctgtg tcgtcagggg gcgactgcga ggaatcgtgg cctcacctt ctgggactgc 1140
 ggagagttgc tctgatgggc gcggttcaat ttgaacgccg gagggccgtc tgattgctgt 1200
 tgacgaggtg cgcgatatcc tcgtcgtgcc aacgtccccg gtcagaatct tggtcaccaa 1260
 attgttctcc ctctgtattc gcgcgttgtc cacctgcgcc ggcatctttt ttggatcagc 1320
 ctttttgatc cgggcagcct ccaactaatt ggatcgacaa tcacgccttg gttctgtgag 1380
 gttttggccg gtatggtggg ccttaagcct accaacctgc aaaatcttct ctttgttggg 1440
 acatccccgg ctaacacccg aggagagggg ttgcaaaactc atacggtctg ttattggggc 1500
 tgtttatatt tgattggaac ggtgttccgg ggccaaaggg tatgtgcctt cgaattaaac 1560
 ttttttgccc cgaaaagaaa ttctttcttg ggtgcggagt tttctaaaca accgaaacca 1620
 tttgcggttt ctaagagcct gttcggacca accgtctttt tc 1662

<210> 2847
 <211> 1849
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2847

ccagcgggtcc ttatggtgta tccaatgctg gtactctggt ttgtcatcgg aggaaaatct 60
 ttcaggttac ccacttttgg catcggcttg gggccgggag ggagcggcag ccgctgcgcg 120
 ctccgtgttg aatgctggta tatcaggtag cagatgagag tgccgatccc ccataagatc 180
 aacgacgcga tcgccatctt agttgaatcg ggtgtcaaga tcaacagaaa gtaagtcatg 240
 caggacaaat gtttactcga gaaaggtcga ggacggaggc cattgcccct gcagatgtgg 300
 ccccttttca ctggtcttac ccgcaatata ttagagttcg gccgcagctt taatcctggc 360
 acttaatcct ggcaagcctc tcagataatc cgatgactcc gggcgccaac atccttcctg 420
 gtgtcttgac attatgcagc ttccgcaatg cgtgcaatcg cgttcaaaga acaggacaag 480

ggttgcattha ggggagagta catgccctca ccggtggcgc ggtcctagcc ccttcttttg 540
 gccccctcct cccctcttca ccttctccat ctcaacagat ataaccgatt gaatccagtg 600
 acattgttga atattcgaat ttgacctttt ttgacacacc caggtccgag aggaccatcc 660
 caatcacccg ccatggccaa catgccaaacc gaggatgaga tcgcgtggat gcaggcgcac 720
 atcaacgact caacggttcc agacattatc gcctgctgct caatctgcgg tgctgcctca 780
 gtcacatctt tgacgctgcg catctggctg cggtcgcaaa cgcgcgctca gctcgttttc 840
 agcgacaatt tggtcattag ctcatgtgtg agtattatgc tcttgacaag caacaaaggg 900
 tcatcgctga gagctattcc gtccagggtg tttttatagc tttttgtact gtcttcgcct 960
 tgtcaacacg ttacggcgct ggaagacaga taattctaata tactgacccc gctgacatgc 1020
 gtatgctagc aattgtacgc cggctccaaa ccattagaaa tccttttatg gtattacttt 1080
 gagagctgac atacggggct ccaccagctt aatatcctga atcctatcct ctatggcgtg 1140
 gccaccgcat tcgtcaagtg gagtattctt gccctgtaca tcgccatctt cccgcagaag 1200
 aacttcagct actgggttta tttcctctgc gtgatcaact gtctcaatgc tgtcgcaatt 1260
 gttcttggtta gttgectgca atgtcgccct ctggaagcac tgtggaacca agcagtggga 1320
 ggcacatgca tcgacttcag cattttcagc ctcttcaata cgtccttcaa cctgggtttg 1380
 gatgtggcca tactagtatc gcctatcaag cttgtcatga acctcaacct gagtcaacga 1440
 aagaaaatat tgttggcact taacttcggg ttgggcggag ggtcagtcct ctatccactg 1500
 ttccattaat cccttggggg aaatacacca ttacggcctc gatgctaacc taacaactcc 1560
 agcgctctg tgctgcgac catccgactt ccctttgcta gacgcgtggg cggtagatcc 1620
 aaccaagct gtaggttatg ccggccccga gtatatctga tcttagcgat cattgtgttg 1680
 gcagttaact gactctcct gacaggggac atgattccag gaggcctatg ctgcgtcgtc 1740
 gaggtcgccg tggcccttct ttgcgcatcg ctaccagtct atcgacccct gtttgcgcg 1800
 atggtgtcca atcattcgac cacgggcaac tcccagcagc cgggacgct 1849

<210> 2848
 <211> 1304
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2848

agtttggggg caaatcccca gcatctgctt tttattcgcg ccgaagccta atactccacc 60
 tcgacctttg aaaggggaat caatgaacgc agcgggtgaac atccagcctc gaccggtcag 120
 tatttgcccc gaatgagtcg tggccatgtg actggggatg tcgcttgccg tccaccgatt 180
 gcaggtctcg caccaggtcc cgccaacttt ggggtgtttt ccatagatgt gaaaatcgac 240
 gtgctgacta aaatagtcct gctgaaggat cttgtctttc atgaggatac cggagactct 300
 gataccttgt tagaaaggca ttgtggatgt gcgggtgaga tggagaggga aggcgaggag 360
 aggacagaac agtaaagaca tacctggcgc tgatgatcgt gacgcggaag cgcttggaag 420
 gctgagtttc ggtcatgatc actatctata cttctgatac aatgtaatat acggtagcca 480
 tgggtgggtt cttcttgctt ctgactcaag tgtctattta tctctgtcta tctatctct 540
 catatcaggc attcaatcac tgtgcggaga gtggcccgga tcaactctcg tctccaagtt 600
 cgataagaaa taatagttta atccttggtg gtagttcttt aatggctctc tatacttct 660
 gcttgggtcta ggcagctacc gttattctca tagcttcgac tgctccaaca ccgacagctt 720
 gcggagaggc ggtcctcccc ggctcccatc tccagacata accactgggc cctgggcaga 780
 ttcttctctc ggtgccttca ggcccatctt ctggcgaagt tcgctggatg cgcagttctc 840
 gaagcaatca atgacgtatt ttcccagcac ggggagaaat ttgaatgcac tgttagattt 900
 tagcacctca tctggttagc agtcgttgcg gaatagacgt actgtcctga accgcctgta 960
 gcgacaaaaa gccattcag cgtcggatgc cgatcaatga taaagtcccc atttggcgta 1020
 tcggtgtacc agcacagccg gcgattcaac caaggccgat caccctaaact ggggaaaagg 1080
 tccttcagcc caccgaggag tgcagcgtct gcatcatcag gcacgtagcc ggaagccgag 1140
 ttactagaat ctgctctggg tccagaaatg atgcgtcccg ttgcttcgga ctgaacttca 1200
 gtcgcaagc cgtagccgtg gcgagcgagc ttgaggatgt ttgttcggg agaagaaagg 1260
 gaaagagaag acgcccgtcg tcatattgat caagacaggt gtgg 1304

<210> 2849
 <211> 755
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2849

cctcactacc gatgatcgcc tgtccttgat tctaaagtgc ggccaatata tttgccatca 60

ctatgcattc aaaaacgggtc aaaacgaata cctctagtca agtgtcagac atccttctgt 120
 cgaagggggc tcgagtgtat acgattcggt caagtagcga tcaaggcgtg agtgaagtgg 180
 ctcaaccaat gaatcatggg aatcattagg aagtctgaac tggatatacac agccctatct 240
 gccaatgat ccaatcgatc caattgattt gccaatgat atgggtaagc tgactaactg 300
 atagtaacgt tagttatggc agactgttcg ggaaaccgaa ataattattt tccgccaacg 360
 ccatagatat ggtattgggt atagtatata taactggaat attcaccaga atgataaagt 420
 tgaagaatcg tattactggt aagccgtcct agagtgcagc gcgtgatata taatgtactt 480
 gttatggagg ttgacttctt aagcttgccc aatatgggtg acttctacaa tcccgaattga 540
 cttaccagat ctcaacagcc acgtccaact agtatggaga ctagtcaccg ccgacagaca 600
 gtcgagctca ctggtggaag caggaccatg atatacagcg gagctacttg ccgtcacagg 660
 acgtgaacgc ttctctgaac ggcacttcta tctctgaac gtatccatca ccagtcctag 720
 tcaccatta gccattaga acagcctctg attca 755

<210> 2850
 <211> 4656
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2850
 agttgcggat gatctttgca atcaatttga aatttatggc tactaaattc tgcggatcat 60
 ctgtcgttgc ggggttctctg gggtcagcca gaattttgga tcacctaattc gggctagtgc 120
 tggtaaccca gcatggtacg ggcttgggtg cgctcgtgcc tacagaggtg tacctaaagg 180
 ctttgatcag tagatattat tgccttgagt atccattttg tacctcaacg tactcgaggt 240
 agacaaagca tgggattgtg gaagtccagc tgagaccggt acacatatat atattttgct 300
 cagccatgta cgatgcagta gatctttagc gccctctcca cgaccaacaa ttatatccac 360
 gttcagcacg aaagaggaaa tgggcgagaa tggccctttc actagagttc cagtctgttg 420
 caagccctac tggcaaggat atttcaacaa ggcaagaacg accgaaagag ggttatttta 480
 ggggaagtaa gttgtggtgg aatgcgcggc cgttccttcg tgcgtatata attacagtgc 540
 gccttcccaa tacctagaca atccgtacta tctggcgtca tgggtgcgtgg gatgaataga 600
 tccatgagat cgccgcgcga ctcaaaatta ctactaccgt tatatatccg ccaactctgca 660

tttcatcatc agaacacaaa gctggccgcc aaattttgat ggccaatggt tgctcatgtc 720
 tgctgcggaac tcaaggggtgt cctagattca gagacagcgg agcttgacat gatagcttca 780
 ctgtatcacg gaagctgcgc gactgcgtcg cgaaacagcg agttccaaag ggaaggcgag 840
 caagctgaaa gagcagccga tgggtgtctat gcgagacagc ggctgcggta tccttttgcg 900
 caatcagaga tatctgggtcc gacgtaaggt atgcgacgtc ctataatgtg cacagtcctt 960
 agataatctc cagcgttgcc cattgcccac atcaagtga ttacgctgag ggatgttttt 1020
 tcagcctgtc gcagtcggtc ggtcgtggct gtcttctaag ttgctggcag tcgtatcaga 1080
 gttcgagaac gctgggggaa gtcatatgct gcagttcggc ttaatgacgg tggacaccat 1140
 ctattcgaaa cagcgaagcg aagcgcacga agcacgtcta ctatcattcg ctgcgactgt 1200
 tgagtggatg aaaacgtcat acaacaaggt gtcttggaa gcggaagaa gacattatat 1260
 gtgggtgctat ccacacctag catcgcgctt cggcctcaag cagtcatgaa agcatcggca 1320
 attggctggt ggacatgcgc acagaagcca cctggctcta taataacgga ccatcaacgg 1380
 ctctgtcaag atatgccgtg tgcgtgtata gattattcgc gagagtggta cgtggagatc 1440
 tccgttgtga gtaatggatg gcgctgggtga taatgaccaa gcttgaccag ctgaccogga 1500
 atgggaacac tgatatcgcg gtgaaccaga agaaaggatg cgaggtcgag gtcattctgca 1560
 atctcgctct aacgctggaa aatctcaagc ccgccaacc caggccttct caccgaaccc 1620
 gtgcgcctat tcaagctcct ttgaatcgtc ttggctcttcg tggagtattt cataaatcat 1680
 actcgggtgt atgtagcaac gctgggtttac cgtcattgac gaagccaaaa agctgcggta 1740
 agttccgacg cacaaccagt ggtaggttc ttacagattc cgcattccact taaaaagcat 1800
 gctctggtgg gaatgcgatc gaacaatgtc ccaatgagag tgcaagaccc caggctggaa 1860
 cccaaggata cggacggccc aggcggactg aagccctggg tcgcaaccat ttcgacatct 1920
 ataaacatta gcgaattgat aattggacgg ttgaatttgt cggaaccgg tactaggtag 1980
 ggcagcatct gactgaggc agaagattag caaatggagg agggtttcca actgacgtct 2040
 gatgaatgcc caagccgcca cacgcatgac tgcccaacgc aacgccaag atctcgtcca 2100
 agtacgtcac tggctgcggg aaaatttgcg gccacccaac accaaaaaag cgtcaatctt 2160
 tgtccagtga aagacgagaa acattttaaa tcgcaatata gactatgact ctatacgttt 2220
 aaggaagtct cgaggagcct tgaattcttg agccgtcaag ggacaggtga caaccttcca 2280

aatcacgtaa tccgcagttt agcgaagtac atacagacta cctcagacaa gtagcgatgg 2340
tagacgcaac tgtcccctaa tgcatttttt gtgattccat cgaggccgaa agaagcaaag 2400
acgagctctt gatagggttt gtcctgaac aatcgacgac gcatccccag caccaaactt 2460
tcgccttaat cgaaggctgg gcagctaccg ctgggtgaac aaagcaaacg gaccagaagc 2520
cttgtctgtg gcaccgggtg aggcaaagat agtcatcaaa taggcgaggc ggtctgtctg 2580
ctgtagccg aaaatctcat tgtctctcat gttgttgacc tcgagatacg caaaaagcaa 2640
gctattttct ctttctgcac ccagatcttt cactttccca ccatcttccc atagaatcag 2700
ttccagaccg agtctatcgt ccttttgata gttagtgatt atagtacgct tatttcggag 2760
acatactccg tagcttagat gatattctgc tgatcttcaa ggctgggtct tatccaataa 2820
tgaccagcaa acgggaagag acagcatcgc gactcaagcg ctggagcaag ccgtggacca 2880
ccggcgtcga cggctcttca tggccaagcg cctaagcctt attggtttgg ccatgcatgc 2940
agaatctggc gttgtctttt ggtgcctttg ctgccgttgc ggtgtgatgt ggagtcactt 3000
cctccgtagt cgtggcacca gacaggccag cagcccaaag ccggcccaac agcccaatca 3060
atccctgcag gtggcggaac acaggcgcaa acccacacac gaatgagtct cccacctttt 3120
tctgttcgcc cccctcgcag cctcgtcttt cagcgtctcc ttcttatctc gctgctgctc 3180
gtctcttctt tccaaccttc tcatctcctt tctccctcc ctctcttctt actactcaact 3240
cctatccttg ctctgggtgc tatcaccagc tccagcttg cataatctgt acaaagcact 3300
actggaaacg acaaacggcc ttgaaacctg gaatccccta aaacctctt ttctagtgat 3360
ctccctctca cctcgttatc ctgtttcgtg gcctcttctg tgtcttctcg actctctaca 3420
tcaatatccc ggccgtcttc ctgctggata ctcccaagg atcatcacat atctgcctgc 3480
caccaaccg tggtaagaa ttcaccccc gggatttctt tcttttcgtt gtcgcctgga 3540
aagccattta ccttctctgg atacaccagc ttacctctt atccacttg gaatttatca 3600
aatcaaaagt cagatttgat atatctatca gtcttgagc ttcagcctca taattacctg 3660
ccttgttctt gaagaacagc cggatattga tctcgtctgt caccacattt acctggactt 3720
tccggcttct gttttcttg acttccttg gccgtttgga ttctccagct tgtttaatta 3780
aataccgat actcttcctt ggacaagatg actagccgtc agaatgaata cttcatcccc 3840
ggagatggtt ttagccgaga agtaattcag gccgacatct gccgttacct tggaaatgat 3900

gctttagtaa gacctggaaa ccacaatgtc cgtctccctg atcctttgac tgcgaccgcg 3960
tacaggcgcc agagagattg gcctcgatga atgaaacaag cgagggtctcg ttactgacat 4020
gcgaataggg tcgcgcgggga ttcttcattc gcgcttatcg aaacctcaca tcagtatgct 4080
cctttccaaa ctctatgttt tgggaaggca aactaacatc tgtgtcttca ggaaatgatt 4140
gctgatctca agggcgactc cgcccgctgg gaagcagacg tcagaagtcg tgctgaccaa 4200
ggttatcccc ggggcagcta catccaggac tacagctact ctcaacctag cggggctaca 4260
ccaacctact caacctctat ggggaagtcc atgcaccctg aaatgtccca tgggtcaaggc 4320
ccttctctc ctacaacctc cgctgctccg ccgcagcagt attctgagca gtatcaccaa 4380
tctggctacc cagcaacttc aagtccgtca tactcaaatg ctccgtcata tccttcaaac 4440
cactcgggct ttggatctgg tcagcccca tacccttaac atatccccta cagtgtcca 4500
accagcctc ctgtgacttc tgaggccac cttcatata cttacgccag ctctggctat 4560
ggtttcgaga ttggggcгаа caatgccctc tcggaccctg gtccctggata tgatgcccat 4620
tctgattatt ctctgttac taccggaatg gcttat 4656

<210> 2851
<211> 1188
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 2851

aacagagtga tcgctgtcca gccacaccaa gatcgcccgc agcagaagtc ttgtcttcga 60
aatgcaggac cgtttgaccg tccatttctg atacgcctcc gaccttcttt ccgtaaacga 120
tgttgatgtt gggctggcgt tcgaggactg ccagcatcgc cagagacaga acgatccgca 180
tcaccgcgcg ccccttgtag ccgttcacgc cgttcccatg cccgtcggcg aagtcgactg 240
accgagcga gcgtgctgat cgactggaga agagtccaat ggcatagacc tccgtccac 300
cgactggacc ctggcgatct agttcgtaa ggacgcctag cctaaccaga tgccgatggg 360
ccaccggagt atgagtgaat gctccacca aggggggaag gacttcgtga cgctcgaaga 420
gagtgatctg aagattcggg tcgtgggggc cgagttcctt tgcaagagcg agtgcactag 480
cgacgccggc aatgcccacg ccaacaatga ggactttacg acatcgcggg gaaggatcgg 540

gtactgacag agggaccgac accgtatagc cggaccaggg ctcaccgttt tcttttaggaa 600
tacgcatgat ctctctctac gatcatactg agaacttctg aagacttttc ggccagggcc 660
atcggttgca gaaataaatc gatcactgat taaaagagct aaaaagagct aactgctagc 720
gtcggcagtt gtggagaatt ctcggctgcc aaaagactta gcggccgctc ggctgttcca 780
accttgcaag tttcggcctt tccgttggtt cgtacagagt aaagtaaaga acacatcgcc 840
cgtccaattc atacatcata catcataaag tgcgctcatt acaccaata ccaatacagt 900
caatacacct aataccacga gaacagctag agagctagag cagcgtctcc tgggtgcgca 960
tcacgcgcca ttctccatcc gatccctggc cccaagtcgt tgagcctggt gcgtggtaat 1020
ctggctgtcc ttccctgctg gcatggattc gatacgttat ggtacccgca tgagatcgat 1080
cacaatcacg cgcacgtctt gcangtcgta ctcacgaat tgtggaatcc cttgcgacag 1140
gtctcgccag ggtttcaacc gggggatata cttttgggaa caagagac 1188

<210> 2852
<211> 1100
<212> DNA
<213> *Aspergillus nidulans*

<400> 2852

attctccagg gccctgcac ctactcaatt gctgcgtcaa agagctcaat tctcatgtta 60
gttgccaata cctttctctc ctttcttgta cggtttcacc aacgacctgg cgttcgactg 120
cttgatcgc tcttcgctcg gtctcagaat cagcacttgt ttcttgaag tatcgagaat 180
cttgaaaaac atgtcctcga cgatcgtgga ctgatcaaat ggtggtgccg tgctctcgat 240
ccaattcttc gcgagtacga acctgaatct gcctcccagg agcaagacaa gaaacacgaa 300
gagccatcgc ggagctcagc aacggcatat ctcacgtgc ctggttgcca caggtttgaa 360
actagaggtt tcttccttag tagcgccaaa gcagacgata aagaccggcc ccgatggctg 420
aatgcttata ctttacgtca aatatgcagc aagcctgatg ctccgccgcy ctctctggtt 480
cctcggttcc ctgatgatcc aaagacgcgc tttctcattg acctcgatga tgaacttcca 540
gaggctgcgg gcggagagag ctcgagtggc cactggagga gtgtgaagtc tttggacgag 600
ttctgggaga tgatgtcctt ccgccaggag tgctctgcgg gaagactggt tgggtttctg 660
tggcttggtta tcaaccctcc tggagtgggt aattcgaagc caatgctgag cagcactgcc 720

ggttctgctg aggttagggg caccacctcc gcggccgggg aaggaccggc aacggatagc 780
 caactgctaa cgtctaacgc cccggccaac tcagatcagg cacagtctct ggaggtcccc 840
 aaaagcagcg aagatgcttc aatcactcat tcagtcgatc agacgataaa tcagcaggcg 900
 aacaacggaa gtgcatttta ctggccacaa gcggcgagag gacatgcagt gttgaacgaa 960
 gatgactata agaaagtcac caacttcctt ctcgagcaag acttttataa cgaagaggtc 1020
 tcgtttgccg gcacgaaggc gttcaacgac aaggttgcaa cacttgacga tgagctgtgg 1080
 gttgccagca tggtgtggga 1100

<210> 2853
 <211> 1281
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2853
 agctggactt accccagtcc tgcttcttca gaccggaacc caagttaccc atgcgggtcac 60
 cccggcaccg gcaccggcac caccaccgcc gcgtccgtaa ccgccgccgc cgtaaccacc 120
 accgccgtag ccacctccgt agccactacc accaccacca ccgtaaccgc cgccgcgacc 180
 tccatagccg cctccatggc cattagagta accgtttgag tagccgccgc caccgccgga 240
 gctgaaagaa tgacgttagt gtggatttta aaaaaaaaaa aaaaataaaa gcaatccaat 300
 gtgaaacttg aatgttgatg gctaggatcg tcaaaaccgg tggcttgtga acaaagcttc 360
 ggctcaaaca aggaacagaa gacatagcag tgtgcaactt gcagcagaat cacaatgttg 420
 ctcaaccagt ctctagcctt ttatgtttta tggtgagatg cgacaaagat agtatgtcaa 480
 cgtaccgata ggaatcgcgc tggtagccac cgctgccgcc gtaagaagac atggtgaatg 540
 agagaaagtt gtgttgcggt gttggtaaaa ggaatcctca acttgagaat cagaggcaac 600
 acagatataa gagagagaga aagtgaagaa agaagaaaga ccagggaatg gtgagagaga 660
 gaaagggtgaa aggttttaga taagaaaaag agggagaaga ggaaaattaa gggaaggcgc 720
 tgaggcaacg tttgttcttg tttgggttag tgcaggagaa aattggaaaa tctcgacacc 780
 gctgctgtta tgtaagctgt accagtggcc aatggccaat gatgactagt gcaggtggcc 840
 aatgtggcta ccataaaaaat tcaagaaact aggttccag tgaggtaggt aataggttgt 900
 ttgaactcga tgctatgagt tggctaattg ctccattcgc tggacatcat ctgttcccac 960

cttgggcagt attagttggt ctaccgacat acaacgcgaa cactcccatt atacataagg 1020
gagcctggaa gtatatagaa gggaacttga tctatataca aacattcatg gagacaagct 1080
atatgtacat cagctgtgtc cagcgccaag tcccatgtcc caaaacatga tctacaattc 1140
ggttgccttg atgaagatct tgaccaactc tttcatccgg gaaagcgaga cctatctata 1200
tgagtttcga gtagctctgg aagccctcag tcgcaagctg aacaagtgtt gcgcattcta 1260
tatgaggagc gagtgttctt a 1281

<210> 2854
<211> 1100
<212> DNA
<213> *Aspergillus nidulans*

<400> 2854

gggtatgtcc ttcttgactt tcccctctag cgaaaagcgc cgttggtggt tggcgccatc 60
accgtcaggg taaatgggac catgctaatt gtgatagcgc ccgcggcagc aaagacgccc 120
cagtcctcgc cggccgagta cttagtcgca gccgccagtc cgtacaacgc ggatgtgctt 180
aggcagatga tggggccttt tatgtgcccg ttgaggtaga tccggctcca gtggcggacg 240
agctggtcag gactacttgt tgtttcgaag agggacggga ccgctagagg tagacgctca 300
tcattgcacc tgggtggcatt agttaggcgg ccggcaaggg acgtggcagc attaccggac 360
aggaaagtgc cggtgataac ggctatggct tccactccag cgttactcat ggttttgaag 420
agttccagga gtatgaactt atgcttgggg tatctgccag gtctcttttt ctctgtttat 480
accgacgcct acatgggtct cggcaagcga tcggtgaggg ctccgccatg tgccgaagta 540
ttggtacgtg gtggccggtt tattaacttc gcgagagcct aagctacaga cgagcaccat 600
cagacagacc atcgtaacta tgcccgcctg gtccctctct gtccctctccg ccctcccagt 660
ggtgggtatg ttcgcccgtc aaacgacctt cttctctctca ccatggggaga cccttttttg 720
caccgccgct gagcagcatg aagcagcaat ggacggccgc atccaaggcc gtggcctcct 780
cagctctcac tttggctggt acgggtggcc gggccaaacc ttcgactatg tgattgttgg 840
cggcggcaca gccggcctag caatggccca tcggctgtca gaggacggta gcaactctgt 900
tcggttatt gagggcggag gattctacga aattgaggca gggaatgcc ctgaagtgcc 960
aatgttcctg ttcaactaca ttgatgacaa cggccatgtc aagaaccgcg tgtttgactg 1020

gtttttttat atctaagtc agccagtatg cttaccctac aatcgagata gctcagatgc 1080
 ttacagtttc aggggctggc 1100

<210> 2855
 <211> 1229
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2855

caattgtttg cagatgagct actaaagtc gaaagagctt gaaagcttga aataagtcta 60
 gtctacttca ttcaaattca caacatccaa catccgaact ggacctcacc aagacggcgg 120
 aatccaatac tcccgccaat gtcctccgt atccttagtt gtctagcaag gcccggtagt 180
 aatgcatcat tggattaac ttgctccatt ctgctcagtc cgcagtctta gattgttcct 240
 ttgaaacatg ccaaaaccag atggaagatc attgaagtat gcttaggcca gattacacca 300
 attgtgctgt tttaatgagc acatggaaat aacacctcct acccctagac acgcttcttg 360
 gaagctttta agattcgaat ggggtcggag caagtttgat gagctactgc agcctatagt 420
 ccgactgtgc gatgtttcgc tatgtgtgag gatttgcatt tggtttttcc tttctcgcac 480
 tatccagccg ctggcaacga tgtgacgacg atgttggtga ggtccttagg aaggagtcatt 540
 ttacttcagg atgagggtaa atgtgtcaaa tttggacttt tcgatgtttc aattggtacg 600
 aagcagcggg acacagtatt tataaatacg attgttcgcg catgtcagga taccacgctc 660
 cttgcccac ccataaaaa cgacatattc agtcatatac ctgaacgagg acggatttct 720
 cgcagactat gccgtagaat actctccggt gcctgtgatg aaggcttttt aattgaccgg 780
 aatttgaagt tgcctacac tccaacctcg ccggtttag tgagcccgaa cccttttgaa 840
 aggtacgact gggaatcctg tttagtcaat ctagacaaca gtgacgagca ttttgatcat 900
 gggttgaatt gaaatatact acccggaacg gcttgacgac tataggctgg ataagctaca 960
 tgggtcactc ggggtggagga ccgctaccaa gcacctacta atcggttttc aggaccgtga 1020
 tggaagatta acggtactta agaggaaggt agaagagagc ggccacacta catgggagct 1080
 gtctggactt attgtgcat ctgtcgcttg tcccggcgca atgtgattta cgccatgggt 1140
 acgtaataat tccctgtttt ctcttcgagc gacttcgcca cagtacgact gggcattgat 1200
 tccgaattcg tctggcgaac taacgatcc 1229

<210> 2856
 <211> 1464
 <212> DNA
 <213> Aspergillus nidulans

<223> unsure at all n locations
 <400> 2856

gaaagaagtc ttttcaatcg cattgggtcga cagcagacag tgtcttgggg cgaggctgcg 60
 caatcacgcg ggcgatttgc aatgttaacg tgtctcaaaa aaggcatcaa gcatagcttt 120
 ttgttttcag cagtgtgtca agagcaactg ggtctgtttc gatcctacag tcatttggct 180
 tcttttctact gcagatgccg gctaacagac gtgcagagcc agcacaagac cgtccatgct 240
 cccagaatgg taccatccat aagacatcag acttcagctc taggctgtct ttgaccgtga 300
 ctcaagtggat gggtctacaa ccttttcccc tgacattcgt ttcttggcac aatccgacag 360
 gtctatcctc ttttctgcga tgcgtatttt gctcaggtcg ataaaatgcc cacactgggc 420
 cgtgactcgt aaactcaagg gcgaacgctt cctaggcagg atgaagatag atttcttgga 480
 cgccaaggga caggagggtta tacggaaggt cgctgactag cttgagaagt actggataac 540
 acggccgcgg gatcgagccg ggcgtcgcca cagattacct ggacgatatc atttatcaag 600
 cttgtgtaga gtgtgttgag agagcaactc tgttcaagat gttttccttt ctgacctcgg 660
 cagtcataatt cttcgccctt agaccgacac gtttcccaa tcgctgtgca cttctgcaaa 720
 taaagtggct tgccacggga aaccggaccg gcggagcctt ctcgatggcg atatcatcaa 780
 tctcgaaatt tcgctctacc aaggcggtta ccatgtcaat atcagggtga tcgagctaag 840
 gtagaccccg attcggtcac gtagccggg taacacgcga atgcttgat ttggcagtcg 900
 aaacgtcaag attggcacgc ctatacgggc gttctgtcac attaatatga aactgtaagt 960
 agtcacagct tgagtgtcca tggctttcat tcagaatccc aatcncccc attcataccc 1020
 cattatggca agatcaagca agtggcagtg tgtatggccg gaatgacttt tactattgag 1080
 cctatacttg ctccgggaag tccttgggta actgttgacc ggtgactgg acgaatcact 1140
 gccgatggca tgcgcacggc tcagtttggt gcgtaaggct gcatattagc agtcatcacc 1200
 tgacatacgt ttagaacacc cttgcttgt cacgcagaca ggtgtcgaag tcctgtctgc 1260
 gcgaaacgca gattcacctg gatgccctgc cttgttgccg actaccagtg aggctcgata 1320
 gctaatcgac gaccggacat agccaaagcg taagtccgtg accaaagcca gatgttcttg 1380

tgctgtagtc acaaataaaa acatggaata ttctcgccgc cagatcgaca cgtagtgcaa 1440
 cgtagatggt ggcaaggacg tcgt 1464

<210> 2857
 <211> 1366
 <212> DNA
 <213> Aspergillus nidulans

<400> 2857

acccataact tagcaggac atcaatcaca agaaactcag tgacaaacca agacaccaat 60
 actaacacaa cctcccattg tatctccact gccacctcca gatctttttg tgattccctt 120
 tcgcccactc agcatctgga atttccgaag cgccctttac ccaatacaac acccacgccc 180
 ttctgtacaa gggccataaa ccaacatcgt cgtcattcaa cacttcttat taatctcata 240
 catattgaca aaagcttctc gcaacatctg ctgtcccgcc gacaaggccc gccacgctcg 300
 gcacagtaca cgctcattgg accactatgt ccgctgacca gtgcctggct caaagctcat 360
 gctgtccagg tcgtatgctg ctattgaggc ggatcaggct ttagttagac ggacctttcc 420
 ctgaacatgt aaagcatcca cttgagagac agctgttctt agccatacag agtatctcat 480
 ggaattcaga ggttcggaaa atcgatcaat tggcggtgag cagttctgac tttatcttta 540
 tagaacgaca ttgtcgaatt tacctcccag ccggcatacg tccgttaata ctgtaatatg 600
 aattatattt caagaatata acaaactcgtg acctcgagga acactctttg cttttattag 660
 acagcaagaa gcatgcttga tgggaggaac aaattccggc gcaactttca cgtaggttta 720
 tttatgcacg tttttatgca tagtatagcc attggctgac caatcttggtg taaatcatgt 780
 gattatgaaa cagccacgcg gctgccgctc tcagcccgaa gacatcacgt caatccttag 840
 gtgctcaggc ttgggagcag tggctgttct caccttctac cccatcattc ttttatcggt 900
 acctctata actttttctca gagttaaatt tagcgcagtt gcgcaactcc tggctcgctgt 960
 ggtgcaggac taccactgac taaggcagtc gacttcacca tggctccgaa ggacaccttc 1020
 ttccgctcgt cgcatatgag cttgacgcag ctctatatcg cgaacgagat cggctcgtgag 1080
 gttgttagtg ctcttggtga gctaggccag gtgcagtttc gggatgtaag tgctgttcat 1140
 ggttgataat gctggagagg cgctggcaag tgagtcgtca ctaactggta ctcttttgct 1200
 taacagctca atcccgagac aaacgctttc caaagacgt ttacgaagga gattcggcgg 1260

ttggataatg tggagaggca gcttcgtatg tttaccagct tctgogactt tccagcactt 1320
 tgagtgagtg ggttggtggc taatcgattc ggacgggcag gttact 1366

<210> 2858
 <211> 983
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2858

ccctgtcggc ctatataaag tacgtttaga ggacactcat tcctggctcg ctgcagcta 60
 aaccgttttc tttagtcgct cagtctagtt gtctcatcc tgaaccatct ccaggccttc 120
 tcgtcgtcc tcctgcaatc cacctccact ccaattgaat gggcatagaa acagctccac 180
 ttgatgtcga ggagtcgacg gagcctccta tatgtggtta ctcccacaag caccctttac 240
 aagaccataa tcgttcaaga gatgtaaaag acgcgctcga cagcgagaag gctgcaacaa 300
 ctctctccga cgagcctgaa tctatagcct ataactctga acaagatctt ccagcctctg 360
 cggaccatgc tcacattctc agccctccta gcctctcggc acttcttaaa gtcgaccttc 420
 agtacgttag ctctcgtgtg ccgtttgcaa gtgttgacca tgtagacatg ggctctccaa 480
 cgaggaggcc tcttctcgtc ttgcacgaga tgggccaaat cgtgtcaggg agatggaagg 540
 actatccgta tggaagatcc tcctgaggca gggttccaac agcctaactt tagtatgac 600
 tcaccgaagt caacggttgc gtctcgtggc acagaagcca ttattaacta tgatcagatt 660
 cttgtcatcg tcatgggagt ctcttttggg atcaacgatt atattgaagg cggcgttgtc 720
 accgcggtca ttcttctcaa tattgtcgtg gggtaagcat ccccgatcag gtttcaattt 780
 cctctgactt gtocagtttc gtgcaagact accgtgcgga aaaggacatc ctctcgctac 840
 agcgattatc tgcccctata tgtaaggat tacgtgacgg gcgagttgcc cctataaagg 900
 ctgagtcgct tgtggtcggg gatatcgtgc tacttgcgtg tggggacatt gttccagctg 960
 atttgaggtt attcgatggc atg 983

<210> 2859
 <211> 1080
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2859

gtgatgcatac atggagctga catagtggga taggatcgag gacattggaa gaatcacacg 60
 aggggatgaa cgcgtcggtc tactcataca ttgtactgct tgtgtaggac aggcggaagc 120
 tggaaactgag gagggtagac aaaatcgcaa acagctagct agagccgata acaagtattg 180
 tgccgataat ggatatattg agttcttgaa agatccacgc ttggtcgtta atcgcgacgt 240
 gatgggcttg gcgcgtagta agcggagata tttgcgtgcc tgagtgcctt gaccgggtccg 300
 actcctgtgc ggggccagag aacctgaaac tgatatgggg ctcggaatta ccccttggac 360
 cgtgacgaaa aactaacact ccagcacgaa aattcttata taaagcgttt gggccttcgc 420
 tgctggagga ggatctcaag atttgttaaa attctactaa atgggagtga ttgctgcata 480
 taatgcaagt tatatattat tactctagat tgccaatgtt tagattagca tgcaggacct 540
 agcctgcaga cgagatgctg agctcaaaaa ggctctcgtg ttgaataatc gctcccaagc 600
 aacgccggta catcctccc agtggatatca tgttgaattt atccgcgcaa cctgatccc 660
 cgcagggacc atgcaaagaa atagtcagac agtaggaaag gaaacaaaat gtgctttttg 720
 ttttgacatg tctatgctgc gctttgagtt gttgaaacaa agcaggaatc attacaatcg 780
 taaaaagaga tgaggaagat atgtcatagg ggattcaagc ctaagcgacg agcttagaac 840
 ttaagggcct tgggctgctc ccaggagaac ttctggttgg tgaagtggcc gttctgagca 900
 gtctcaaagt agatgggctt ggccaggatca agctcacgga cgatgacacc ggggcggagg 960
 tcaaagtgtg tgcggatgat ctggacgagc tcctcagagg tcttctcaga ggtgccgtag 1020
 gtgtccacgt aaaaagacag gggcttggcg acaccatagc gtatgagaac tggacgaggg 1080

<210> 2860
 <211> 1303
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2860

ggctaacaag cttcgataga cccggactga gcttaatggg tggtgacttt gcgtgatgag 60
 ccttatatta tgatcagaat ccaggtaggt tcctttgggt gaatgatccc aaaaaatgat 120
 cccactaagt atcccacacc aagagagtaa gccgcggcgt taatcaatcc atccttgatt 180
 ctctcagatt aataggtgat agtgtaatgt gccgattcct ggtacaagtt ccaggaggtt 240
 gcgttgagga tgcggagtcc ttcaggtagt actgacgtca tacaagacct cgacataaac 300

atgatgcaat cctgactcct tcatatttaa tcctttagat ccttcaattc tctcattctc 360
 attccaagaa tcatcgatcc atctatagcc acgatggcag aacaagaagt gtacggcggc 420
 cgcctctcga cgggccccct gcccgctgac aaggccggat cgtacctccc acacaccagc 480
 ggcgccgaac aagatctcta cggctcccgt tttggcacca gcttcgaaaa ggcccgcacag 540
 catatcccg c atgtaggaca gaccaaaggc acagctgcag agcaggacct ctacggctcc 600
 cacttctccg gccacacca gtccctgacc gccgggcac taggcctcct ccaatctgcc 660
 gctctcccat cctttacttt ccacgcagca ttttctacaa tcgcgtacgg tatttccgcg 720
 tacacggatc gcgctgaagg caaagactgg ctttggcctg ccggcatgac cctcaatgca 780
 tggatatagc ctattggcac caaggttctc cagcaggtc tctcttgctc cagggcatgg 840
 tctacactca gctactcaga gaaactgctt ctcggtgggt ttactgcctg ggggtgttcgt 900
 ctgttccacc ggatcgcgac tcgtggtgtt gcacgtggca aggacgacct gcgctacgat 960
 gcgctcaaga aggaccccg attttggaa aagtcgctct tcaccatgtt cttacctgag 1020
 gctgcagtgc agacgctcat ctcggtgccc ttctgtctgc ccttcgcaa gaccgctgag 1080
 agcattgctg cttcgcccgt gaccacggaa cgcggctggt accacgcgct ggccgtcttc 1140
 ctcttctcgg ccggtttcgc gatggaagtc ctcgctgata acgacttgct tcccacaaga 1200
 agaagggcga cattggtgtt tgccgcgacg gagtctggag cgttgttaga cacctaagta 1260
 tgtcccatgc cctagtctgc taaagagctc aagttaacag aga 1303

<210> 2861
 <211> 1052
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2861

aattataggg cacagacgca cggggcctag ggacctggaa ggaagctcct tggaatgtga 60
 atcgacttat gagctctttc gacttagttt ccaggctctc atttgcgcg gcctagaacg 120
 cgacttccat ttctagttag ggccaattgt ttatccgggt cccgcgatat cggaggcgga 180
 gcgggattta tatcgcacag ctctgctaata ggatagataa atagcgccga cagtattgtt 240
 ggggatatat accggcattg ggtatattct attggagggc cactttctaa tctggctgtg 300
 gacatatcgt ccacattgcc ttgaggaatc aagaattgag tcgcagatcg agctccaaaa 360

tttagagtcac cgagagaggt atttatatcc ttcagatctc cgggctttgt tattgagctg 420
 ttttcccttc ctttccctct atttactaaa taccatccca gctgggcagc ccatggctcc 480
 ttccgctcaa cctacagccg caatggctac attcacccgt atgggtgaagg gccaaatgcg 540
 ctgctactcg gcacccgtgg acgccgctat cccagccagc aagcgcaagt acattcccac 600
 ctggggcacg tatecgaagg gattctttgt ctgagggact cacgttggcg tgaaagcatc 660
 caacaccaag tttccagacc ttgcgctcat cacgtctgag acgccctgct ccgcgggccgc 720
 agtgtttacg acaaacaagt tccaggctgc accggtgcaa gttagcaaga agatacttaa 780
 tgcgactcaa ggtcaaggga tccggctctgt tattatcaac tcgggctgcg cgaatgctgt 840
 taccggcaag ggcgggtcttg aagatgcatg gagcatggct acaaagggtg atgagtatac 900
 tgggtgctgcc gagaacggga cgctcggtat gactacaggt gttattgggc agcggtatgt 960
 ttctcatcgt catgacttgc aaatgattgc caacagattc caatttctct agtcttctta 1020
 tctctaagat cctttccaag attcccgaag cc 1052

<210> 2862
 <211> 1580
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2862

tggttagatg cccgctagat gtgttcgaag gatgttctgg tcccagtcgg actgaagaac 60
 tgattcttcc cagtatcatt cagcgggctt actgggcacc ttcccaaagg ggcattgctct 120
 tcattcctgg gaccagcaaa ataaactctt tcgcgtccta agttatctac tgtgcttact 180
 aaatggccac tcgacaagcc tctgatttgc taaccatcc tattcaccag cataagacgg 240
 tcatattgaa ggtttgagaa gcggcctcga actaccaaag gcatttggtc catctatgcc 300
 agagacaaaa caggattatc caattcacgt accaagcccc ttggaagggt gcatgtctt 360
 tcacaaaagc gtaaagctc acagcatgct atgctacgcg gtaatcctct tctctcgata 420
 tgtacgataa cagtcaattc gaacaaggcc gcaacaactc agccaacctt aaaagacgac 480
 cttgacgatg tagtttgcac cgaaaataca agctggccaa atgcaccgtg atctagccga 540
 cgggtctgga tttaaccatg tccattatgg ggcaagccac caaacggtat atagcctagt 600
 gattccagga gcccgatatg agtatgattg agatagccgg ccctttgtcc ttccggcctt 660

ggtaaggggtg acttaacgat cctatagccc ataatgatct cttccaaacc cgcggaaagt 720
 gcgaatgggc acctgtgact ctgttttccg taaaggatgt agtcgcagac tggctcttgg 780
 gtcagatcta aatggacgta atgagggaga tcggaactcg atcaggaact ctcgctagga 840
 tcagggagcc tagagccatg tctgaccgtg gtcccaaate tggaactcgg gcgtgtcagc 900
 ttgagccaag ttcaaaactca ctctgcattt gatctcctgt tagcttagcc gtactgacct 960
 ggcaatatcg ggctccgtcg gaggtccga cggaggctct gctggtatgg aagttccggc 1020
 attgtcgggtg gctggctgcg tctgggcctc tccctactct agataaaggg tctcagtggg 1080
 caagcctctg ccagtttcaa ctaaggcacc caaacttctt taatcatggt accaaggcat 1140
 ctgtgaacct tctcatctta gcaacgattc ggtaaatcaa aaatacgagc aactcactac 1200
 cgcttgatcg acgagacaag gaatgggtac ctagtttata taactagatg ggtttgattt 1260
 tgcgtcgagg gatgtgttgg atcaaaagg atcgtcacag cacctagttt caagcaatga 1320
 ccacaaaaag cggatttcagc tgcaccttgc cttgataacg accaaatatt tgaaggctgc 1380
 aaagatacaa ccttgccgta ttagtttcat cgagattgaa tatgtatggc gaatatgtaa 1440
 agcgagtcag tccatagagct gataacattc tgccttgcgc taccgcttca cttttagttc 1500
 ggctccgcct aaggaccac gacccagat gcttcatttt gagaactcta gacatatcac 1560
 gcatcaatga gatagagaga 1580

<210> 2863
 <211> 1704
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2863

ttttcccat aatatgccgc ccacgcctct tcccttgact cctcggatc tacattaccg 60
 gcatactgcc cgtagtatgc atccgggtgg cccgaagtaa gaacgtcgct caaccgcttc 120
 agaaactgga tcgtcgtatc agtcaaagca ctggcgggtgc ggccaaatga gaatgcgaag 180
 aatagagtat cgcgggtggac gaaggetgtc tccgaggggtg cgacgtcggc gactgcgccg 240
 ccgagcccat taaaggtaac tgcgtacaaa tccgtgccgt ttgtcgtggg gtcgaggtat 300
 tcaaaggcag cttgcgccac ttcgtccgga atcaggtct cctgcttgaa gacaagcgat 360
 ttagcgtaga agtggctcgg ctgggccgtg ccagaagcaa tagtccgcgc gcttgccggc 420

gcacgaactt gtagaagttt gtatatggtg taatctgcgt ggtctggggt gctgtgctga 480
agtgcgagag gaagtcgagg gcctcgaagt ccgcttggtt gccgaagtat gcgccagaga 540
caatgatgct gctcgggtgtc acgacgaggt cgaagccagt gtttcggggc agggagccgc 600
tggcgagcag gccttgccac gagaggaaga cctgtgcgcg agtggccgag tccgtctctg 660
tccagacata cgagtaactg atggtagaag gtggcgcggtt ttcagtgcgg atagcgaagt 720
cggtcacgat gccgacactg gaaccggcgc cgcgaaatggc gaagaagaga tccgtattct 780
gtgtcttcga agcgcgaaca acggacgagt tggctagcac cacttccact tctcgcaggt 840
agtcaaccaa gaggccgagc tgccgtgacg ccgctccagc cctccaacc gtcgcatgcc 900
cgccgagccc gactgtaaag gtggaccggt ggggggtatg ccggcctccg ttgttgtact 960
ggagtccggt caccgcgtcc aggcgggttac caggaccaa ggaggtgatc catgtgtcgg 1020
tatccacgct gaagtgtctg aggttctcca gattgatgga aagtcggtcc gtggcgagc 1080
catagttgcc atagctgtgt ccgccgtct tggcttgaa tttgattcct gcattctacg 1140
cacatttgac agccgctgcc acctgagagg tgcctcggg aaatacaatg gcgacaggag 1200
tcgtaagaag atcaagattg tacggtgcca cgaggtttg gtagttgggt tgctggggaa 1260
aagcaactag actggagtcg cctccgactg atgccaggag acatgttgcg aacgtgctga 1320
gcgcggtcat tgatggacta tggtcgtggt aagtacggt tctgttgatc cgttgcaaca 1380
agaaaattgt ctcggaacat ctgtacttgt atattgtcga aggattgcta tacgaggacg 1440
gactgaagcc tgaactataa ctccgcaact ccgtaactcc gcctctgcaa ttgtcatata 1500
cctttcaaag tgaagttgtc ctcttcactt ttttctctt ttcagctatt tctatacagc 1560
aagcccatgt tcttgctcca agtgctgtca aagaaactgc agcagccatg ttggtgcgtt 1620
taggctatca aaaccctagg tctaactttt cttgcttgat tctcaggctg gtacatcttg 1680
aataacagtg aatggctgta taga 1704

<210> 2864
<211> 1591
<212> DNA
<213> *Aspergillus nidulans*

<400> 2864

tgtttccgca caggttcagg cttatatccg ttctctagga aaagatcacc agggaattgt 60

gttttcaggc aagtgttgaa cctctctccg aagatcgctg gctgcatcat gagttttcgg 120
 ttcattgccat ttctttcaaag ctgagattta tattctcaaa cctgtctcca gaccggaaaa 180
 tcataatcac ttggatagcc ggtattcatg aatgggttgt gaagagaatc ttctgagaac 240
 cagtacagct atacagagta tgtagtatct gtagctccgc cagaagatac atcctaggaa 300
 cgggctcctt gggttttgtga ataactgtaa atccactcga aaggcacacg gggccacgtg 360
 ccattctaca acctacgtcc tctttacttc agtaagataa ctataaggcc agttcaagca 420
 cagaaacatt tggccggggg atcaacaacc atagctggcc atgagaactt tgaatgaagg 480
 gtcggccaaa agttgcgttg cagtcagacg tctctcgggt gagtaattga ataccttctg 540
 cataatagag agcacaagct ctgcctcagc cggaccagcg tcaggccggt agcgtgcaat 600
 ctctgatgag aggtatcttt ttgagcaggc gcttgacttt gatcgtcaac gcttccacca 660
 attgtttcgc agccgacatg cgagtggctc tagaaaatct gccactgta taacgggtcaa 720
 ggtacggccc cattagagga agcacataac cctatggtta caattgtccc cggacagcat 780
 aaaagtgtcc atataagtca ccaggcgga tgatcctcta cctctgaac gatttcatca 840
 tgtatgcgtc gttcgatgct acccgagtcg ccgggtggcca tggctttgac agcaacctct 900
 ttgttttctt gaaggctgag ggcaggccag actgtggaaa acccgccggt gccaatctta 960
 tgctcaacca ggtgtctcgc gttgaggatg tcttcgagac aaattggata gtaaacgttt 1020
 ggcgttgctt tgcgttcata cttatcccag gactcgacaa cttcttcgag ctctatttcc 1080
 tcgccttctg tgcttacaag atctccaaag tctgtcgcgt catcgtcctt gggtgtttgc 1140
 ggcggcggtta ctctatccgt cctatcttat ccacgactat gctgtatcgc ggtccggtct 1200
 tcgtatgtac agtgccgaga cacaacataa gactgtgca gtcactagtg aatggcttcg 1260
 cgagagagtt cttgaatgat gaaagtggct tccgcgccca gcgtgctttc cgtcgcaatt 1320
 gcagtttggg gtggttgtgt gatcaattgg tgatgtacag gttgtatcct tctgagttta 1380
 gggtgccgtt actttgggtc tattttccgt gtttgccctg gcttggccta gcctggccta 1440
 gcctgatctt cgggtctggc agcttagccg ttttatgggc acgccaggcc attccctttg 1500
 acttccttct ctgcgaggtt ggggtttttt tagatgttat tttcttaatg tagttatgct 1560
 tttatagttt ggtgggtttt tagatgaatg t 1591

<210> 2865
 <211> 1065
 <212> DNA
 <213> Aspergillus nidulans

<400> 2865

```

ttttttgatt gcattattgt tcctcttggc ttccagattt cgttggtttt tctttctgtg   60
gctttgcaat tgttttctag aattgcgttc cgcaaggcta tcaaattattg tcttgtctgc  120
ggtttccttc atatttaggc acgagagaat tagatctcga tgagtttccc aggagttcgg  180
aagtattaag gacgaagtgt gttcaagaac cagttttctt atgcagcatg aaagccgctc  240
tgcaagtggc tgaagcagag tgggccgtg gagctcagtt gtctgcgcgc tggtcagtc  300
gaacttatta gtactcttca ccacgatcac tacctacctg atgcagcttc ccagaagca  360
cttcggccaa ccgccgtcca cgttttctgt atcgcaacat actatcccaa tagataccta  420
gcattagaag ccaaacagga accatgttga gtgaagcgcc ctcaaagag gttagaaacc  480
aagcaaagta ctggtcgtga tcaagtagac gctcaaagaa taggcgagct gtcaggctgg  540
ttctgcaaga tgttagaaat gtcttctaca cacatgggag acgtacgcgt aagtcatttt  600
cgatttccag tctgcagatc cgcaggctcc tattactcct tcaaggaact gctgtacgcc  660
gctcgtccag tcgcgaacct attttacctc ggatcctacc accaacgtgc cgccggtacc  720
ctttctcttg caagctcgaa tctcgttggc accgacacat ttaacaagcc atacggctcg  780
gtttaccgga atccatttgc ttaagcactg atcaagaaga ttcttgccac ggataccatg  840
aggaatcgtg cgactcagcc tgcgcaacgg cacagaggga ttggcgaggc cacggagcca  900
agcttctcgt ttgttatccg tcagcgtaac gcgaggcggc ggcttaaagt tcgacgggac  960
attaattgta ttgtgattct gtcgcttctc cagggcagcc atgaaaacag acgagagcat 1020
ttgtaagccg gacgggtgct tcaattgcgc atagagtgat gggcgc                      1065

```

<210> 2866
 <211> 2058
 <212> DNA
 <213> Aspergillus nidulans

<400> 2866

```

atccacgaga aggactttat ccaagggttg gagacctgtg gacgtgctgc cttactcttc   60
ggcgactgga agattgtgta cattcccaag ccaaagggtc cggagcggtg gcagctttac  120

```

aacctcgttg aagaccctgg tgaattaat gatttagcgg agaaatatcc agaacggctg 180
cagaaattgc tcaagctctg ggaccagtac gtcctggaga ccgggggtcat ccctctcaac 240
ccggatctag gtgactttttt ggaagccacc gaggcgcaga tgacggagaa tgcctggatg 300
gagtatgact attggaaggc ggtgcgagg gacgaccag gacgggagaa gttcatgcgg 360
aagccgccga ggtttcagag gttgtaaaa cagttctaata taagatccaa gtcattagca 420
tcataggtat atacagatta tgaatgacaa actgatatgg tatatagatg aaaaagttaa 480
tatcataaca aagaaatccg taaaagctc cctccgcaca cacttcgagt ccgccaagt 540
tctcgacgca tcctggcgtc tcatcatctc ttaagaagt agaagggcct tgcctgcatt 600
tggatgagct gggggggcta atgatgccat acgctggatc tcgttcgcaa tccaactgcg 660
ctgctcgaat gaaccttcaa ggcccgcat gaagagcggc cagaggaagc ttatggggat 720
tggttctgtg ccggaattctg agggaggttc atggctattg gagttgctat ttgtagaact 780
ggaggtaaag gaagaactct cctccttcgc cagcctaata atctgggtcta cggctgcata 840
taccctatcc gtgcgtggat atatggcgaa cgccacgcgg tgaaggata taaacaatgc 900
caggaaattc ggcacatagg agcgaaacgt gctgacgatt ctactgcga gtggtggtgc 960
caatacttcg agcagcgacg ctttcccgtc cttgctggga gatgtcaatt gtgacgagga 1020
gagctcgtag aggtccagta ttcttggcct ttgtttccag agactctcga ggtctgcgga 1080
aatagcatgt gcgatctgta gcacttcgaa ttcgtcggat accgttcctc ggctgcgggtg 1140
gtggaggtct atcataatga tgcgccgggt gacttgctgt gttgcgagaa aaaaggtgaa 1200
ggctggcgag gtgatggtgc gggttactat gtatgctggg ggtggagttg ttgcaaaaag 1260
atcatcctcg gctgagtctg ggggggaggt agtagggta gagatggtac ttgcttcgga 1320
ggtgtggtct cctactacag agcggggctc gacggctggg ccggcgagca gtgctttgac 1380
gtctaggaga gaaacacatg acgcgatgaa atgcgcgaga cctgtccagg attcaatctg 1440
cggttggaag cgtcggagga gaagtaaga ggtgtgtagg taagggaccg ctgggcgcca 1500
ggtttcgggg gatatgagct gctttctgtc aatataggcg catatgtcct gctttgttct 1560
cttgagtaa ggtgtagaaa aggacgggca tacctcagcc aacatcagca gcagcact 1620
cataagcacc ctcttcagca atacttcatt tggatcccc agcagaaaag cctgaatctc 1680
ggaactcgct tgagcatggt aggttgacc cattttcggt tgtttgcggc ctaccacgc 1740

caaatgcatg tctgagtagc agtatacagc caacagaatc gcatgacaac cgggtgcgct 1800
 ccgattcgac tcagcgaaaa tagtatctct cacatatctc cactccaagt cgactggtgc 1860
 gaatattgta ggtggtgctt cgttctcgcg gaaatgctgc agcagttggt cctcccagac 1920
 tcctattccg atagtcccct gaggcgaggt tgggtcgggt acgaccccaa tcccaggact 1980
 acccatttcc acctccccag aatcccaagc aacaaggcgt tggtcgaaaa ggtgaccgcc 2040
 gtctatctct tgcatagc 2058

<210> 2867
 <211> 2151
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2867

gggagcggat cctttacaag ctggtcttca actttcgcga tcaactttgt tttccaatcc 60
 aggcgttgaa cctgccatgt cccgagggcg aaggaaataa ttgggattaa agctgtctac 120
 aaagttagca ctcatcttga tgggccaccg ggcgaaagca actacgaaag gcataccgag 180
 aatgatcaat cctggcccgt gtttgcggcc agttcgcacg atttgtgcgg ggtggtcgac 240
 gacagataac cagcggggat catcacccat ctgcccgttg aagaagcgga cttggaattg 300
 ttggcgacgg catctggcgc agattgaatc gaacttgaat aatgtgcgcg gaattcgagt 360
 ggatgagatc ggatgttgcc atactcgagg gacggcccgt tcagcgaccg agaagatcgg 420
 tcgcattatt tatcgtgtta tttattgttt ctatttcgct ttgtatgtcc tgttgtcaac 480
 tgagaggcct cctaacgttg ttgatgagct agaagaagta gaagcaaaaa gtaggtcgat 540
 ggaggagatt caaaccgacc cggcgtgct gcggaacccc aaatgatcgg caccggctga 600
 tgcgcgagca actactgctg accttcgaat ccataacatc ctcaaatacag aacagcatac 660
 cacagtcaat atgttcttta ccgggacctt acaagaagga attactctgg cagttcaaga 720
 gtcaaaagcc gttgtttgct ttgtgccagg tctgtcctcg agaattgacg cgtacgtgat 780
 ataccgctg ctaattattg ctttcgcaga taacggcgag acaagctcaa catggcagga 840
 ggaatacttt caaggcgacg aggtacaacc tcaagtgttt aactgaaatc tttgcttgcg 900
 catgttaatc cgatccgttg tataggagtt tacacgactt cttggatcgc aatctgtcct 960

attacgcac gctaaagaca gccaaagaagc tgggtttcta gctccgtct gtcccatctc 1020
 aaagtatcca acggtcgtta ttattaggta cggatttctg tcccagctgg gaggtggaac 1080
 catctgcgca gggcgtctgt tgaccggatc gcaggaatgg aatgctgcgg gagtatatag 1140
 tgccggacat ctcaaaagag ggctttcgca atcgggttat ggccgctata gctgatagca 1200
 aaccgcagag tcagacgatt tcttcttcgg tgcccaaca gtccgctcag caagctcaag 1260
 aattgagctc cccggccgca cggtcgccac aaactgttac cacagctccc accgcagcag 1320
 tcgatacgac acgggcctcg ataactcagg gacaatcaag tcaaaacgta tccacgagga 1380
 gctcaggcgg cagggcaa at gatataacgt attcttcagg gtcaagaatg tactctgcaa 1440
 cagtaccccg aaagcaagag agggagtagc atacgccgca atcttctaac aaagctaagg 1500
 agacgaccga gcaaaagaat gatgatatga aagggaaggc acctatacgg acaaacatgg 1560
 acgaaaaatc aaagaaccaa aaatccgtg ctgcgtctcc agccctcac tcaacgtcag 1620
 tgccagtgcc tccatcgcaa taccgtctcc aggtccggt ctttagtgga ggtttctgtc 1680
 cgctcaacgt tttcacctt acataccatn cgcagtgcg tccgttctg gctagataac 1740
 caattggagg aaaagcgacc ctatacctca aactcatcat gacgcccttg ccgtacaaaa 1800
 cacttacaat cgccgaagag gaccagacc ttagtgaact cataagcggc tccacggcga 1860
 cctttgcatg gtgccatcaa gcatatacag aagctactng gactggatcc taccctttcg 1920
 ccaggcttaa gaattattgg ttggtccttg ngggtggagg gcggggatta tgtccttatg 1980
 gtattcccaa aggtttatat aagccccccc ccaaccgggt ttcggttctg atctcaatgg 2040
 ccggtgtggg caatttgtct tgcataagtg caatgngtta tgtgccttca gtctttcttt 2100
 tcttcaagtt attctgctt cctcttgat ttcattctct ggtggttttt a 2151

<210> 2868
 <211> 1878
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2868

ttggttggga ttgcacgatg cattgctttg gtatgtatca gtgaggtctt cacgaactcg 60
 ggttgacgaa aataggctct agtctggaca ggattggcag gcggtgacag cgactactgc 120
 gcgattctag tggcaatcaa ctgattctg cagatggctc tattcgcgcc cctggccatc 180

ttcttcatca acgtgatcag tgggtcgaat gagggcgtca caatcgatta ttccctggcc 240
 gcaaagagcg taggggtatt tctcggtatc ccgctaggcg cagccatcct caccgccttt 300
 gccctgcgac tcttgataag cgaggagtgg tatgatcggc agttcctaaa atggctgagc 360
 ccctgggtctc tgatcggact tttgtttacg attctgggtcc tgttcgcatc gcagggcaag 420
 caggtggtgc attcgattgt atccgtgggtg agggtcgctg cgccgctgat cgtctacttt 480
 gccgtgatct tcttggtgac gcttgccgta acacggcggg ttggctttgg atataagctg 540
 tcttgacgc agagcttcac agccgcaagc aacaactttg agctggcgat tgcggtagcg 600
 attgcccct ttggtgtaga tagcgaccag gctctggccg cgacggtcgg cccgctcatc 660
 gaggtccccg tgctgctggg gctggtgtat gtggtcaagt gggtagccag aagacaaaaa 720
 tgggcgtgat ttctcctgta aatagtcgta tgcttcattg accactaatt tcatccaaga 780
 cttgaaatag aacctgattc tgctctctgc aggcttcttc ggagttgctg cggatgaacc 840
 cctttcgtag cttttgctgg atttctgaga cgtccagtc cgcgagcgttg tactggttca 900
 cgagcttctc ggcgatggcg cagaatgtcg tattgaggac gtgctcacta atgggcagag 960
 agtccaagcc ttcgtcggga gagcaggcgc aaagtggagg aagctctgtt gctctagctt 1020
 tctcactg ggattcgttc ttgttcgcgc tcggcttgca tgcaccgatt acaggttctt 1080
 ggctcgggac tgattcgtg cgaggactct gctcagtcga gcaagacggc tcagatttca 1140
 cctccgccac tcgcgaccga gcctcagacg gatctcgtcg aattgccgga atagcaactt 1200
 tctgagctgc aactggattg tcgaccatcc gcagatactc ctctagtga ttaggcggta 1260
 cgccgaggaa gaaatgcaga tctctcagcc tcttgttctc agcctctaatt ctctgggccg 1320
 ccagcctgtg ctgcagctcc ctgcgacga gctcttgctg gagactgagc actttgcgct 1380
 cgaggtcctg aagatgatcc tgtctccgtg ctctgctctt acgctgggtc tccctcacac 1440
 gggcgagttt atctaatcgc tacgtatagg taagaaagtg atatcagaaa gctcgggaga 1500
 acatgttacc ttcttctcca aagctgaggt catcttgctc ttgcgcttg tggtatggaa 1560
 agggctctgc agctggactg gagaaaactt ccagtccgca gaagcaaat gcgagccaga 1620
 acctggtcat gtgactttgt ttctttggat ttcagtttca gctgcagaag caattatcac 1680
 tagtaatctg cagaccggtg tacaactgcg gcttgatcaa taaccgggt tcatatatca 1740
 cagtaatctc atgaatgagc atggtctata tggagcgtgg acctggcact ggtccgagcc 1800

tccgtctgcg tcacagtcac accagttagc tgggtgcggtg caaagtcggc gctcaccaga 1860
tcgctgagct aattgaca 1878

<210> 2869
<211> 1437
<212> DNA
<213> *Aspergillus nidulans*

<400> 2869

agacaagcct gtcagactct acgtttggtg cggcacctcc ctgcagttct ccaatcgtga 60
gtgcggtgtt gttttttagt agaccagagg ctgaaaacct ttttcagtaa tgagaaaaat 120
cgatccaata cttcgtagta ggactcggca taattccctt actctgagta tattcaatac 180
ctttgctgtc tgtagcagat aagggctctgt aatttacgac cggatgcgtt gataagccca 240
ctcctggtga ctctccaaga tcggcggtct ttaatagtcg gccctctccc ttccaccccg 300
tcctttcccc ctgatccgg tcgtttcttc tttcgttcac ataatctgtt tcaatcgaga 360
ttcaatcgct accgggacag agctttattg cctctcttcc caacctggcc ctctctcagc 420
ggtgatttag gtctctatt tcccgcagtc cttcgttgat tgggtgcgctc ctcgatcata 480
ctactatact ccacgcctt gtataaatca ctctatactc tcccaatctg aaacgcaatt 540
tccgcatgct tcttggtgta tggccctct cactccagtt catcgtcac tgcaatcaat 600
ccacacccta tgtcttggtg tcataattcg tgcacgccc gcatttccaa taccaagcct 660
tgggtgttcc cctgagtggg tcgcagacaa agactttgat caaggccac tgttatacca 720
ctctttctgg gtgtccctg cgctgaattg atttttaaac tgatctttta tccgtcttct 780
ccagaccctg ttctctgtat atgattctcg gcctatctg acccatcac gtcgtcgcca 840
tgctgcgctt tcaaactgct ctgttcttcg cctacctggc ggccaggtcc ctgcccgcag 900
acgactttac gccgcccagc tgcagtctcg atgaacactg tcccaaggaa tacccttgct 960
gctccggtag gtcggatccg ccacatatac actgcgcccg ctcatgttgc actagtatac 1020
ggacaatgtg gtaccggcgc ttactgcctc ggcggttgcg atcccctgat gtcgtactcg 1080
cttgattcct gcgccccgat gccgctctgt gagagcaaga gctacaagtg ggagaacctg 1140
gacagcgccg cctcgaacaa tgagtacctc ggaaacgcca cagaatccga ctgggtgtac 1200
agcggaaagc ttaaagtcga agacggaaac cttgtgctca ccatgcccaa ggagagcacg 1260

ggctcgctga tcgcgaacaa ccactacatc tggtacggca agattggtgc aaagatcaag 1320
 agcagtcgcg gtgccggtgt tgttactgcc ttcatcttc tctctgacac caaggacgaa 1380
 atcgactacg aatgcgtcgg ctccgatcta aaagagggtc aaaccaccta ttacttc 1437

<210> 2870
 <211> 1692
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2870

acgtgtaggt agtcgacgtt gtatactcac tcgtgtacgg ccgctcgcta cagtatggat 60
 acgcgggaca gtgcgggtac ttaggcgggt ggacttcata ctccgctggc gaaggatagc 120
 caccagacga gtagtagtag tacgcgtaat agcagtcggt tgcgtacacg ttgtagcact 180
 ggcagtaatt cggagcgcac ttgtagtaat catacttgtt gtagcggcag aagcaagcgc 240
 agagcccggc gctgtatttg tcgcagtaat agacttgtct ctccgagagg tcatctacaa 300
 tcccagatta gtcggttatt gcagagcaga acaaggtagg gcagagtcag catacgggtg 360
 tcagcatggg cctgacctc actcttgggg ggaagcgaag tgcccaaggc gagaatggat 420
 gtgaatgtgc tgaggacgat gactggttct attgtgacgt tgccagtgtg tctccagcta 480
 cggttttcct ccagttgaaa ttgatagaac ggatccaatg ccagttgcaa ctggcgcagc 540
 atcgaggacc atcttatact gcggaaactc actacgtata ctttgtccgg cagtggcgcc 600
 acccagtata cctgctgtga cgactcgtgc ctgtgaagca actttcatcc tctatgatgc 660
 ttgtccgggt cgaagcctgg ccaggctgct cggcatccac ttctgtcta ccggcctgat 720
 ggagctgata atctttagat ctccgatgac gtttagattc cattcaagac agtcgttgat 780
 accggcgtac cgggattgcc ttaaagagct cactcaggtt cgtctcatga tactataaac 840
 ggacgtaatc accatggatt cccttcagat gctccatact gtcgggttat gacaagggct 900
 accgcgagtg agactgccga caattcattc aatcgatggc tgggcctcgt caggccacca 960
 gcagaaccca tgggcgcaga cccgggagag agacgggaaa accagacttt gctaagtcag 1020
 tcgcctggta taaatccata tctagacacc tgaaaatggg ctgatcacta ccgatcgttg 1080
 cgtatgtcat ttactgccgg atgatggtgc ttttatgcag cttgagaaaag gtcctagaat 1140
 atccaatgat gtgtacagtc gctgtgagcc tatcactatc gcatgaggcc gggccgtgaa 1200

cgaagacaat attgattcgg cttcaacaaa ctgagaacat atctctagat agatagctat 1260
 agctatacgc ggcagataac cagacaaggg gaaagacaag acattaggac attatgacaa 1320
 gataaacagg tctatatcta tcgttaagca gaaccagtcc atccaaacgc ctgcgccaaga 1380
 aaaacaaaa taggcgtcta tatgtgagtg agtggagtg taatataacc ataacaaata 1440
 aaccaagca tacaggaaac tgaaaacaga atgagaacag aatagaagaa gatgtgaaac 1500
 cgggttctca agcctgggtcc aatcccttca accaccccca ttaactttcc ggcgccatcc 1560
 tgacatttga ccaacactcc ccctattccg gtatcgcccg gtacaatttt tttcccatag 1620
 ccggccaaaa aaaatctgtg gccacaataa aatccttttc cttggaatcc cctccccgaa 1680
 ctttcttttc ct 1692

<210> 2871
 <211> 949
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2871

gcctagactg tattaccggc atcaaccggc aatagcataa acgaagggt gactttttaa 60
 gtctaactgt atatggtcaa ccaatacac aaagattaag agaagcatag cctgatacag 120
 cactcgaggg acataaattt tgaactgtag aactaacaga attttcttgc agaaacctcg 180
 gcgacaaatg ccatagatga ctagtagcca catacagttg acatattcag atcagccttc 240
 gcttaccaca tattccccta acgagagcat agatcgggtt tctgacttgg ggtctgtgag 300
 aatgctcaag cactggcatt atcaatatc tgccgatgca atgtacagcc cttttgtgct 360
 cacatgccaa aatatatatc gcacagcagc acactttcca ctgccttacc ccagctattg 420
 agttagccaa tgaaagaatt tgtactagct atcggcgaca acaataccaa ttaatactcc 480
 tctctttgga aaattgatgg tttgtgctgt tctcgtcata atgtcttacc tagagcacca 540
 tccaggcaga cccgaggatg gccgcaacca ggacatacct gctacaatac gactgaaatc 600
 agtcccaaac gtcccgtata cagtttagac cctggctacg gcgaagtatg cacagcacia 660
 tttgtgggga atgccttgcc tcggcacgta gacggatgct ggggtggagtt ctacaaatag 720
 tcggtgtggg tcaatactga taggaaagtt gagtgattgc aagcccaata atctgctggt 780
 taactgggag atgaatccat ttggaaggga gagctataca atccgatggc cgcccatgat 840

caatactcaa tatccagccc atcggaata tcgatctcgc cagcattgag gtacacggat 900
cagagcgccc taggagtagt ttgtgactgg cataaatgat agcaaatgc 949

<210> 2872
<211> 766
<212> DNA
<213> *Aspergillus nidulans*
<400> 2872

caaggcatcg accactacct cggcatgtga gatgggtaag aacatcctta tcatgcgctt 60
tggcaacgag ttcttcaatg ccacctggaa ccgccatcac atcgacaacg ttcaggtagg 120
accaactccc aaactctcgc gtcatagcgc atcgctaaga cagtttattg gtatagatca 180
cgttcaagga accattcggg acggagggcc gtggagggtta ctttgatgaa ttcggcatca 240
tccgtgacgt tatgcagaac cgtatgcttg ccgtgtcctc tgggccgacg acatgctgac 300
atgaattttt tagaccttct gcaagtcttc acactgcttg ctatggagcg acccatctct 360
ttctccgccg aagacatccg tgacgagaag gtaaagtaac tcgcaagagg ttactctaata 420
gatgctaata aattgtacag gttcgcgtct tgcgcgccat ggacccatt caacccaagg 480
atgtcatcat cggccagtac ggcagatcac tagatggtag caaacccgca tataaggagg 540
atgatacagt gccacaggac tctcgtgcc ccaccttctg tgcgctgggc gctcacatca 600
agaacgagag atgggatggg gttcctttca tcatgaaggc gggtaaagg atgcagacct 660
gatacatgcc tgatgtacca tgcactcacc atctctagcc ctcaacgaac agaagaccga 720
aatccgtatt cagttcaagg acgtcacttc ggcattctca aggatc 766

<210> 2873
<211> 1179
<212> DNA
<213> *Aspergillus nidulans*
<400> 2873

gaacttccat ggtagggccc ggcaggattg aagtctagta gagggagcta gcagcggcga 60
ctcgaagagt ttgccccaca gccaatcaga ggccacggaa ccggctatca ccgtggggcc 120
tcccgaactc ttcattcaac ggtatctcga cccaactct accaggactc tagcaagtac 180
agtagctcag cactagccga gccgggcca agcctacctc tagacagtac tgcagacagg 240

tcattctgaac gggtcctgag acggtcagcg tataaccagcc gctgtacctg taacaactga 300
 caccgaagag gtcaaagagc actaaataga gagggggagt tccgtcacgg cgcctttacc 360
 cgtccggcgt cccttttcag cttcagctga tcaactgattg tctgcttagc gcgcctcgt 420
 ccatgtctat gggactgcmc atgggggcgt tgcgggtcca cccgtacgg catcagtcac 480
 ttacgaccg caacgttcgg ttagttaggg acagaccaca ggcgcataat gcttcgatca 540
 atccaggacg ggatgcacgc tggaggactc tgcacaaagc ttggttgcc aactcactaa 600
 ttcgaagggtg cttccgttgc ggtgaatcat gctaacgaag cacggctccc ttttgagaaa 660
 tcaagactta ggataggccc gctcgcgcac cgattaatct attgatgata tatggtatcc 720
 agcgcgccag tcgacccaaa gaatgccttt gcatgcgagt cttcccgtc tccttgccctc 780
 ccgagcggac cggcgagtcg gcaccagatt gacaagtttc ttactgtgaa cttcttttta 840
 ttatattatt attgttaggg cttctgtctt atcttttccc cgaaactact tcttcgagac 900
 ttttctatcc acaccagtct caccagtcta accagtctac accagcactg ccttgagccg 960
 cctgcgcact cagtcacagag tcgctttgca ctattagcct tccggcgtag tgtcctttct 1020
 cgcttaccgg taagaatcca tttattgtgg ttgatttttc tgctattttg tcttcacgtc 1080
 ataatcagaa tctgaagcc attttctttt gcagtgtcac ttctccttat tcttctctgc 1140
 ttttccctct cttgattttt tccatctccg cctttcctt 1179

<210> 2874
 <211> 508
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2874

cgaagaatct cgaggcggag caaatggtga cgaggacgcg agtcaacctg ttcttacaat 60
 gggcaagatc cagctcctta agcgtgggga tatagaatcg cagcagtgag aatacagata 120
 taatactata catcgtataa tgtagattga ggtgtggtat cgcttcgcaa cgggtgtacga 180
 agatatatat aaccgagctt cagctattag ttttaaccggc ctccatatca cttaacagaa 240
 accggaagca tattgagttc ctatgctaga tgcgctctgc atcactatat ttgtaaatac 300
 tttattcagg ttctgtccg ctccacttgg cctcaaggc accgacatca accccgcaat 360
 cctccgcctt tctaacaatc gctttcgctt tctccgcaac cggcacatca atcatcttcc 420

catcaagcgt ccaggcaccc tgccctgcct cgcagccttc tcatccgcaa ccacaaccct 480
aatcgcccag ttaacttcct cctcatca 508

<210> 2875
<211> 2883
<212> DNA
<213> Aspergillus nidulans
<400> 2875

cgtcatgaac tgcgtgggtca aggcttccat caagcttcta gcccagccaa gagtctgttt 60
atcagctgtc tcccagctta gtcgaaacta tcgcgaaata cttacataga tcatatcata 120
cacctaaata atcccttttc ctaattctca tcaattaggc ccgctcattc tcgttaccag 180
ctacatgcaa gcttttggag attgacatcg agatagatat ataggcggta agctagttag 240
aacatcaaac gactcctcgg gggcttataa tcagaatcct aagcatagac cagagaacta 300
agtgtgtcac tgttttagtgc atgcaaataa ttccaacaag aagtattgtc tgcttgagtt 360
tggttgccagg atgaattgtc tttcaactta tcatattatc atacattacc aagtctaaaa 420
taccctgagc tattactgcg acgatttaaa tctaagtgat attgggaagg ttaactataa 480
gcctagcttg gcagggggat catgaatcgt catttaacta gagtatgaaa cccctttggc 540
aaagcaggta gagttacatg gtgtatgggc ggaagggttc acgcatgtac ataatttccg 600
agtcctaaaac ttattattag ctgcctatga cttagctttt ggtgcatctg tagcttcctc 660
cgcttagggg aatggaatga tcaggcatag atatagtgtt ttgagcttca agagtataaa 720
ccctcctacg acgaaagatg aacaaacaac taaacatatt gagtctcata gggcacagag 780
cccaatttgt cactaatat cttctcagtc aacttccaca gattctcctg gagctgggtg 840
ttctgggctt cactagacgg actagtagga ctacgatctg gcacaatctg taattttcaa 900
tcagcacacg gatgtagtag agggcagaag ttggaaactt acgtattgtc cctgaatggc 960
gtccttacga tgtcctcccc tgtagcggca aaaagcgcgg gtctgcagcc ttgatcgaca 1020
ggatcttcaa aaacggcctg acaatcgcg caccaacctt tccaagaacg ccgtatgcgt 1080
cctccgctg tttctgctgg tcagtactga cagcaccagg gtgagttgag ttcattccagg 1140
gtccagtatc cgtctttgga tcgaatcaa gctggccctt tcccttgccg tcagccagcg 1200
ctcggatata taagaccatc gcgagtttgg tgcggttgta cagcttgggt ggtccaatat 1260

ccgtattgag ctcttcgaga gattcaaact tcacgtcgct gattgcacga tgcaggtcag 1320
 acgattgcag caccaggcga gagttcgacg tcttctggag cagcgggaagc aggatgcggg 1380
 ataagtggaa ctgagagatg tggttgactt gcatgtggct atcaatgccg tcattgggtca 1440
 ggttgaagac tccagaaccc aggcccgctg tgcagatgag gccgtcgagt cggtcgagct 1500
 tcgaagccag ctctttggcg acctgatcgg tctgctttag gtcttcgagc tcgatctgca 1560
 cggagtggac tttggaggta tcgccatact tcttgagacc ctcaagtggct tcctggatgt 1620
 gctctcctt cttaccgagg agataaagag cggcaggatt gtgctggagg aggtggggcg 1680
 agataccgaa gccgatgccg gcgctccctc ctgtgacaac gtacaccttt ccagaaagat 1740
 ccggaatgtc agtgttgggg ttgaatgtgt tgctgcttct aaacatgac ccttataact 1800
 cgagttagct cacttcgaaa tgcataagag attcgagcag gtgattttgt aggccagtgc 1860
 cgctgcggtc gtgggatcat ggtgacgtca aggcctaggt catcatggct gtttgcaggg 1920
 ctgaatcagc atattcggga aattcaggag gctttctggt taatggcaaa ttagggaaca 1980
 gctgggaact ctataagata tagaaggag atttgtggaa aagcacggtt tgagtggaa 2040
 cgggcttgaa ggtggaccct gttgcaacta tgtggggccg ctgcgggcaa ctatcaagat 2100
 cttacgactg aagatcttag ggttcaacga gtcataaaga attatatctg ccgaacagac 2160
 gaaattatth aaggattcaa gggcaaaaga tcgatcatct atatgaagat ggcttctttg 2220
 ttgcactata cgatgaggca aagcctaaca atatggtgga taagaacttt aacatagaat 2280
 gttgcagaca agagtagttt gtgatatcaa agaggcaaca tcaagcaagg gagtaaagt 2340
 ctagatgtga cgaataactc agaagtataa gcctaggagc cttttctata cattgttctc 2400
 gaatctgctt ccgtgagtta ctccgctctg ccaccagat tgcaataaca gctaaggat 2460
 tctagagtc aatagcgctt gttggctctt gcttgctatc tccttctata taaagtagta 2520
 gaaatggaac agtaaaagaa aagcaatttg agttaggtgg tctggcaaat cagttttctg 2580
 ttttctaaga acagttgcta gctgggtaag gtttgtaatt tgtatagacc tgtagtttag 2640
 ggctggactt cacgaaattc tgtttaatac attaggtcat ttgttgaagc tttcttcata 2700
 gacaagtgt ctgaatgtaa taattttgct aactagagt tctttgtcct aatcgtcgaa 2760
 atactcttta aactaatata acgaggtttt gttgggttgcg aatagcttca agttcgctaa 2820
 gtacttagca aatcacccaa ggtgggcgga atggggccga atcacgttga aagcatcttt 2880

<210> 2876
 <211> 2395
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2876

```

taggcgccat gaatgccaga accattaatc agcaattgct tgtcccgata ataatgcacg   60
cgtccgatta atgtccatat tggggaccac tgcccgaag ctattgcacg cgaggccctt  120
ttctcttttt ttctgggtcat cacataccct gtctaaaggg caatatttgc tcaagtaacg  180
gacaccaaat attggctcag aaaagctggc cgcgtacatc atgcatgggt tegtacttgc  240
gtgggcgggt agagtcaccg ctttatatgt ctctaagcaa ttagtctgac aacattgcat  300
taggggtatac atggccctca ataatgcacg cacaatgata gcataatcgc cattcacgtt  360
tcccattcat gattagcgtc tttaatcgtt tgtaggaacg gtaggtacat acaaccttga  420
gtgtatcaaa ttacaacaaa caagggagca gtatcagagc ataattcaaa ctcaagctga  480
gtcttaaaga gottgccgac ctagcatggc gccaaactcc gatctgagat atgtaccttt  540
taccgggta tatcttctgg actgaaattc ggccagaagt ttatccaggg cgagcgtggc  600
attgcaatat tcgagggttc gtctcaatgc ctccctaaga agtgaggcta gcatcgctgc  660
gtcctccacg gaagtatttg cgccctgtcc attgttcggg gtcacttatt gatgaaatca  720
agtacagagc gtctgccatg ttgaggcgag gcttactttg tgaacactgt ctcccaaaag  780
aacaagcga ctgaaatgcc acgtttgcag taggccttcc tctaacgcgc tcatggatgc  840
aaacgttctg gttgcccata gatcacctac acagacgtgt tcggtgactc ggacaggcga  900
aaatttgcgg cagaacttcg ctgcatcgtc tgctgagaac cgaggagtgt tgggattttc  960
tgacttttgc ggaagtttca cgagaatgaa ccagaagaca cggctctctc ttccatggaa 1020
ggttatcacg cacagccctc tcgagtatga gttgatgtgc tccccgatct tgagtcacgc 1080
tagctgttca gaaatcccaa agatgcacgc gtattcgact gtgaaagtta ttgttctttt 1140
gcattagcct ctgcagggtg aacactgcaa atatgccata cacaccattt ctttccaggg 1200
tagtggcaat gctgactgc gttgcctctg ctaatcgcca cgtctcggac cgaacccgac 1260
tatggattcc atcagcaccg actacacggt ctccgtttta taaaaatccg ctttctacca 1320

```

cgactgatac tccagctgca taaatcggat tccagtcacc ttcttattga caaggatatg 1380
 ggacatgatt ggataccggt catggagaat ttctaaaacc ctctgtcgat ctaccgatat 1440
 gataaggat ccaaagccgt gcgatatagc ccattcagta catctacttt tatacaaaag 1500
 aaccgggcta cacacacctt tcataaatgt cccatggtag taggctgttg aatacaaaact 1560
 catctggaaa acggacatgc attttatgaa taggcgcagt agcgctcttg agtcatcat 1620
 agagtccaag ctggtcgagg attcggcctc cgttgagcca aataccaata aaggcacctt 1680
 cctgaggact aatttcagct cgcttttcca atactatgtg gtcgatgtcc gctctagcca 1740
 ggcagtgtgc caaagtcaac ccagcaactg agcctccaac tataatgact cgaaattttg 1800
 atttccgcgc ctcttcttcg tccattttaa tttctgagac atcaagtggg gagcttaatt 1860
 gagcttaact ggcaagggtta gaagaaacca ccaacacact ttgtttgaat gacatttgga 1920
 tacataaaat tatacgtact tgacgggcaa gatgtccaag tctaaacctt aaaaggctat 1980
 ttgaaacatg tagcaacaat ttttatccct tgtttgagct ccatgcttga aaatgctaca 2040
 tagggaatac atgttctgct caatccttgc atatacaact ctgcacctaa ttgaatcctc 2100
 gtgcaattta tgacctggga gagaaaggga gcactcatac aagacccta ctgccctgat 2160
 gcatgtaagc cttgcatgaa acaggatcta ttattgggtgc aaaagcggcg gcattcagat 2220
 gccagtgtca aattatccct agagaagggg gtatgtcccg caacagagcc agcgatgatc 2280
 tgggtatttc ggacataaaa atttatcccc agtgctaata gttcggctag gattagattt 2340
 aactggtgcg aatgtctgct ggtgtaatat atatggtatg cgcggcgctt tcttt 2395

<210> 2877
 <211> 437
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2877

tatccgacgc aatgggatgc gagctgtatt accaaagcac aagcaaaaga ggcaaaggga 60
 gatatggatt gacatcacia tgtttgggag cgttggggaa ttccagaacg tcgttttggg 120
 acagtcccat acaactcttg actgtccggg actgtgtcga ggtcgtggaa ggactgcctc 180
 tcggcgaaat ccaggttacc ggcgcgtcgt cttgaaaccg agtgtctgtt tattccaagc 240
 gcctagtga aacgagaatg gtaggggtgt ttcagatgtc aaaataagca ggcgccgacg 300

cgagaagtgc aggcgcgacc aagccgcgta aacttcgagt caagacacac tgatactgcg 360
ggactgggac aatctcgaat gcgcaagaca ggccgacgat gcaatggacg ctggttgag 420
tcgaatgcag gagaagc 437

<210> 2878
<211> 1666
<212> DNA
<213> Aspergillus nidulans

<400> 2878

gtcccaactc agtctccttg tcctcggggc tgtttacatc aacatcgggc accttcgcgt 60
tcttatcctt cttatccttc ttatccttct tctcttctt tccttccttc ttagactcac 120
gctttgcctt cttgcctctg ggttcggtag cagcgacatc ctccggggga ttctcgagct 180
tacgcttctt ctgggccatt ttgtaacgta ggattaagcg attttctgaa aagtttggtg 240
cgtcgtattc gtcgggtgctc ttgtatatat ctttttacct ccgtgaggaa gtcaactcaa 300
cacttcaaat aatgaaacc taatccgatg actcaggatt gtttaacgtt tgacgaagaa 360
agatctccat cgacaagccg caaaaaaaaa atatactata ttattctgcc gggcggtccg 420
agtaaatgac tgagcgggtga atctccgat ccgcgcctga aatataaggt gtctagggct 480
gcgattccca tcaaccttct ggtgtatcgg tcgggtgccg gccttcattc ttggatataa 540
atatcttgtc aatcgacggt aatatgcttg gtcgtctact catcgttgat atgggtaaag 600
agaacctcag caaggcatgc agttctaagt agacactaag accgctgatt ttatgctatc 660
tgccaggatt gaggcagaaa tctcagggtg ttgctcaagt ccctgaagga gtgcggttca 720
tatcaacgta atctcgctc aactggcata cttattactt ttgcagtcct ggtcctgaag 780
gaggagtact tatttctctt tcatgtagtt gagaatccaa acgtaagatt ggcgggaccg 840
atctattcat atatactaca tatatactac aaatagagat agtctatgcg atatcatcag 900
taagacgcaa actaatacac aggattgggtg agcacagacg gcgtgtataa ggtaggatta 960
gaacgagaag acgcggtatta gcgcaaaccg cagtaagaag ctcaaaaaaa aaaagaggag 1020
cagggaatgt tgtaaggatg gaatggtgtt ttgagggccc ggaaagatgg tcgaaagctt 1080
ttctcatgc cgtcccagcc atcttcttgc ccttgggcac acgagcgagc caatagataa 1140
acacagcgcc gacgatattg aacaaaatat aagcccat gagaccaag ttctccaag 1200

cctcatcaaa cgtactgcca actgacaaga gaaatgtgtc cgtcttgtcc atggagcaaa 1260
 acgagcactg gtcagttgcg ctccgatcca ggagatagcc gctttgaact tcatcaatgt 1320
 aggcccgcat atagtctcca caagtctggt tgttcggtgg agcaaagggt agatactcga 1380
 caggttcaca ctcaacatcc gttcctgaca ggctgttga aagcattgcc gaaactaggt 1440
 atgtgaaggg tgataaacia aacatgaaaa tccaaaaccc aggcatggca tggggagtag 1500
 agagcacgcc gcagaagatt agacacaggg agaataacia ttgggagaca ttgccaacgg 1560
 tctctgcaag ctccgatgct gcaatgatca tgtgcacaga atgtggatgt aaagagcaag 1620
 aatgtccaga taagcaagag catgtagacc gccgcgatat gttctg 1666

<210> 2879
 <211> 1405
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2879

tctgcgcaac gtcattgtca tgaatactgt ccaattgtct cggcagagtt tgataatcag 60
 ctccggcaac ccgcgcttgt cattgtcata cctcaaaaaa gaggcgcggg acgaattgca 120
 ccttttgaac agcttttagcc agtgataaaa taccaggcag tattaataac ggagtataat 180
 taacaaatgc atatcgacct gtacgtcata tagccacat ggatcccat cgcgtcacca 240
 cgcaccggaa tagcaccag ctgcggatga tctgcgggc cttctgccat ctaccgccc 300
 aagtaagtac gagattactc aagggtactgg cggctcattt tegtctgtt gcgttatata 360
 atttctcatt gatgactggc attcgacgag atgttaaggc tactgttttag cttgcgatca 420
 aggttggtgc tgcattctac tagattgoga tttcgttcca gcgaatctag cggttcattg 480
 taaacagcgc gaagcgacag cgttgggata tggctgaagt actagccgga caaatcagat 540
 tttgagctgg gttatccctt tctggcaca agccggagct tccctgcacc ctaccagct 600
 attgtctctt ccaacacagc aatagtgggt ccccgattgg accaggctgt caacatctat 660
 acaagtccca ccgggccttt ctgcgtgtac attctccgga aagagatctt ctagtatctt 720
 agaaccaagc gttggggaga cccacgtcgg aattaggggt tgttgaccgc cgtatatggc 780
 ggcaattccg cactcataga ttccaagcag ctaaccttct ctataggaag caaattccac 840
 aagcctgaag acttacagac ggaaaaaaaa atgggtccacg caccagctct aacaccagct 900

gaaactactg aaacagcaaa cgcacaaggt acttaaacca tcttgaggga tgggtcaaaa 960
 acccggtctt ggtccaggta catacagacg actgtaccgc ttgtgttttc gtggacagag 1020
 cgtcatgggtt tgtcgtggcg ccatgcaaata gaaatcaggc agataaaggt agtgtcgatg 1080
 actctgggtcc tgagatggag ttcagccatt gtaggagcgg cctggattat accctctgtt 1140
 tcggtcgttc cgggcaaaaag aaaaacataa gaaggaacca ggagatagac agctgaagac 1200
 aaagggatgat ggaaataaat actatgttga gattgctgca gggaggagat acggtacgct 1260
 cgacgagcga gccggaacat ctgaagtac cacacttggg tatcgagcgg ccacctaccg 1320
 cctatgaagg actggacctg atattcagat catatatcat tgtgggtcaaa ttctccccgg 1380
 cattaccttc atctccttc ttcag 1405

<210> 2880
 <211> 1666
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2880

tggcagcctc tggatcgcag tcgtcatttg ccagcggta cgccatgggtg ctgaagagc 60
 ttcgtaaaga ggcgcaaaaag tgcatacagc aaaaacagca actggcgact ggatatcacc 120
 attcagatca agtcaccgac agcgccagtg cggatatgag cgctcaggag ccaaactgtt 180
 caaggcagag cttcagctat gagcctgcag tgtttcctca gtctacattc gcgcatacag 240
 agcaagctat caccacagc ccacctctgg agctttcgaa catgcatccg gagcagcaaa 300
 cctggataga aaacctgatt caagacagca gccctagaac ctacattccc agttttaccg 360
 gctggggaga atttgactcg ctggctctca caggcctggg agagttagggt cacatattct 420
 catccaatga tctaccgat ttccgggggtt aaaaccctgg gcctgggcaa cttccccctg 480
 ttcagctatg ctgggataga gaatggcaaa aatataaact cgacaagaca agagggtctg 540
 acaaccctcg ccgcagctct aatttgtctc caatagctgg caatcccagt ccgactttaa 600
 atgagatata cccaaactcc tggggagtat gctatttgcg cttctgacat aaagacctct 660
 cagagacggc ttctgtaaga cttagatagc tccgtttcta gcataacgag caccaaccgg 720
 ggtaacacct gcacttccaa gggteccatg cacgtccaca gcccttatcc ataagcctgt 780
 accagtattg agcgacatgg aagcacagca ttgaaacaca tctgccttat cccggggctt 840

tgcataatttg cagagccgcc atgctctttg atatgtcttc tcatattata ttcccagcga 900
 acaagcttca gagaaggacg tccacagaga ttgtgtctga ctttgagccc agtaggcagc 960
 tacggtgaac ataatgcagc taccataatt atgggtgaggg atatatctgc cgttatctca 1020
 ctgtaactca gtccagattc ataaataata ggcagttgct tatcgtctct gatgtgggtg 1080
 gggactgtat gatcacaacc tgcataactt tgtagatgac taatgcatac agtaaggctc 1140
 agaacagAAC tcaaacagac catcaggaac tgtgccttct gcgagttctt ccatgattct 1200
 ctcatacacc taatactcat gcctatatcc ccgtgtatga taagcaggat tcagggcact 1260
 ctgccggtat tgtctatgga ggtcagcctg gcgcctaccg ttgtactgca aacaacatcc 1320
 cattatgaac gctctgaacc ccggtggat agttcagttc gtgtggataa gctatctcaa 1380
 acccgaacac ctctggctta gcatacttcg ggcattaccc gctacgagac acttcgggtc 1440
 gaagacaaag taagccgccc ctggcccgcg agtctagtca aaacacaatc agggcgaggt 1500
 accattgctg cgcaagacaa atcggatagc caaggtagt agttatccga accccgcttt 1560
 gcttttccga gcaactgcct aacaagctac ggatagctga tgagacagcc cttctcggac 1620
 catatgagaa tagtgccgca tagacaaata ttagccgcgg caatct 1666

<210> 2881
 <211> 3641
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2881

gagggaaactg gcaccaagcc cgcctctcgt acgtcgtatc cagtttcctc atattcttcc 60
 cggatcgcgc agtcaagatc tttttcgtcc ttgttgattt tccccgagg gaaactccag 120
 ttagcgcctt tcttccagcc cttgactaaa acaacctgat ccatttcttg gttcaacatg 180
 attgtccac gaacaggaac gcgagtttta taggcaagga actcagaaaa ggcagtcata 240
 tgatgatatc gagaccagtt ggccataagc ggacaatgct ggaaaatccg caaggcgaaa 300
 gccttcagtg aaagcgaagg gagggctggg tctaacggcc ggatgaaatc ttcgtaaaac 360
 cattgtgctt cttcgacttg gaaacatatt cgctcaaccg attccagttc ctcacggggc 420
 aggtttataa tgaagcggac gcacaagtca tctagccctg tttttgatcg ttgttagcgc 480
 actggtgccg tgtcgggaga gcagggaggg gtattccaca aagaacatga catacagtcc 540

tccagttgca tctttgtttc tgtcatagtg aagggcgtgc tttggcattt caagacggcc 600
tgttatggcc gagtgatact ccgaggtcag tggtaaaaag tacgtcgtca acagacgcag 660
ttggtgaaca accgtgcagc ttcaaggaga ggtgcttgca aagcgccaac cctgaagcgg 720
acagtcacta atcgggtgca cagcgcaagc aatgaaaggc agcagtttgt ccgtcaccga 780
caaacgcggt taagcgaata gacaaagata gatgcgtcag tagttggccg tagcctgtca 840
gtgtgccgga ggtcgagctc tggtgactta tcaagtgcgt ggcggtgctg tggcatgttc 900
gtcacgtgat taacatgaaa gctgagcaga acaggtatga tgacgtctgc tgtctgcca 960
agggcgcttg ttgaggtata tttaacgtag aagtcaaadc tagctcaact ctctcctaaa 1020
gggacttgca taatagccta cagagcaadc taagacatat tttcttgtat aataattgct 1080
atattgtgag ctcccttgcaa gccatgtcat ttcttttcag ctctgttggg aagaagattc 1140
tcgctgagtc tgcgagaaac ctttttggac aagaggtgag tccaaggctg ctatgatcca 1200
ttcgtactgt gtctaacaga agccaacacc ataggatccc tactttgaag aagtccctgc 1260
atcgcgactt ggccgcgctt ttggcaagaa gacacagaaa agacgcaaag ccatcccacc 1320
tggcctctct gaaaatgata gtaaagtcct cacacgcgtt aaacgacgag cctacaggct 1380
ggaccttgct ctatttagtc tttgtgggtt aaagtttggg tggggcagcg ttattggctt 1440
gatccctttg taagtcaaga ttccacgagt cacgacggct tcttcctgac tagcttctag 1500
cattggagac gcagccgacg cggcgttggc aatgatgggt ctgaagacct gcgaaggcat 1560
cgacggaggg cttccgactt ggcttcggac gcggatgacg ataaacataa taattgactt 1620
tcttatcggg ttggtcccggt ttgtgggaga catagcggac gccgcgtaca aatgcaatac 1680
gcgtaatgcc attgctcttg agaagtatct acgggaaaaa ggagcccgca atatctcaag 1740
gcaagaaaga aaagatgttg atccgagctc tgccagcggg gttcgatcgg tacgatagag 1800
aggcccatat tgaacatgcc accgagccgc gaagatcgaa atctcgaaaa ggtcatcctc 1860
gtaagtcaac gcgcggagaa gaagatttag aaagtggaat cgttgaggac cgctcaggca 1920
ggagataaag ctgaagggtt gtttgtttcg cgagcggtag tgttgctgcc aacttgacat 1980
tatgaatcat agtctctttt agttgtttca cccaagttat ggtgtcacct ttcagcttag 2040
cccagggcgg gatcgttcac aggcgtagca gaaatggttc gttgggcggt cctcaagatc 2100
catggctctg cgaccttcag gattgcagat gaaagtgtca caaagagcac atctcaatcc 2160

gtccgtaatc attcgggatg attcaagttt attcacggtc cttgtcacat tagacatgac 2220
 accaggggat ttcgctccct gagatgaaac gtaacgcac atcaattggt cgatggatag 2280
 gttcttggtc aggatattgt cggagagagg gccatctggg attatgatgt tgagaagttc 2340
 ggggaagaaa ttagcgtaac tctgcaattc cgcagtaaac agatctcgga gcggaaaact 2400
 gaattctaag ccaaattggag atgttccgtc agacacctgc caagtcaacg aagagccgcg 2460
 ccccttgga acattcgcca atgtctttgc agcaagccgg tcgtcagagt ctccccatat 2520
 tattccaagg caaccaaggc tcctagcgaa agcgatgata agcctgttca gcaggacaga 2580
 gtcaacatca gcagcggagg tggctgacgt gatagaagca cggaaagcat caaggcgctc 2640
 tttggaaggc agtgaagtat catccacaaa cgctgggcca acatattcgg caagaatgtc 2700
 gttcaaaccc gaaacataat cgaaaacgct gtgtagaggc agctgggtga acgaggcgtg 2760
 agggaattgc tgctgaagca actggaaaagc cccgcgatgt gacggattcg acggagagat 2820
 acttgatggt tctactataa ggacatgaag ctcgaaacct ggtggtgggt gtggcttcgt 2880
 gagcagctc tcaacttgct catgaacct gtgcaaaagg accgatgagg acaggccgta 2940
 agacaaagga aggagaaccg gacacggccc gtccttggt agatctctcc ggagacgata 3000
 cttttccatg cgcttgaaga ctttataccc aacgaatttt atatagcagt ctctatgttg 3060
 ggtacaagag ttagaaaggc agcagtcaag acttagaaag tatactact tgcacagaga 3120
 acggccccgg atcgtcagaa cagagtccgc atttcgacag tccacacagg aattggacaa 3180
 ttgtttcccc ggcatctttg ggcttttttc ttttcgctga acgtgggctt gtagcaaaaa 3240
 atatgagagg ggtggcagcg gccatgaaaa agtgcccaga aagggtgggat tttcacgtga 3300
 tctcattcaa tacttgagag tcgggggctg tcctggccgg tgatcattgg cgtaaataat 3360
 aaagctaccg tggacgaagt actgtactgc caccattcca ttctaccgc agacggctgc 3420
 tggcttatct cagaagcctt acatgtagcc tgaaacgctc atctttacca ttcgatttat 3480
 tttcatatth gtgtatgacc aatacctccg acctagttcc tttctgctca accagggagc 3540
 cgcgccttag ctccaagtta agtcacaatg agaagctgga ttcggacact tggtttgtct 3600
 gccatgttgg caggacagc tgcgcaaat gaagcagaat t 3641

<210> 2882
 <211> 561

<212> DNA
 <213> Aspergillus nidulans
 <400> 2882

aaatatTTTT agtagagctt ttaatcgatc agggagaaac atgtgaagtt ctgaatgacc 60
 gagacaccgt agcattgtta gtcggataga ttcgaagagc tgtgttgaac aaggagcacg 120
 tgacgcgcta ccttggggag aatcagcttc acgccttagc agttcgacct ctctccattt 180
 gatcaagccc tgcttccctca aggccagctt acaatgccta cttgatcagt tacgagatta 240
 caatacgtaa tcgacgacca catggcattt aagagcctct tgctccgagc tcaaggtcgg 300
 ctccgagtcc agcctcgtct aacacagcca cgcttgcatt gcaccgtcta agaccgtccc 360
 gttcagccta tcaaagaaaa ccgggggaaat gtgcatcgtg ttgccgctct tgagaacttt 420
 catacctaga agtgctccca ttggccgttg ggtgacgcgc tcgtgttcaa attagtttgg 480
 ctgctatgca ggtgaaattg cccccgcggt cctagagggt gccagttatg tcgatggcgg 540
 aagggactga ccccttatct c 561

<210> 2883
 <211> 2735
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2883

actttaagcg aatagggtca atgttttctt gtagcgagcg tggctgcctc agctgggggtc 60
 tttccgagaa cttcgctaac tgcttccctg tttgaattgc gcatcgccga tttttgaggg 120
 gtaggcacgt caaaaggagc cgcgggagag gacgaaccga ccgctatatt ccatgctcaa 180
 gtacgaattt cgcgagtcgt cgagtcgtcg cggagggtta gtcggagctc gccctacctc 240
 aaggagata tcacgtcaa tctcgtggtc ttcttcttct tcggatgtcc ctatcggcga 300
 gatgttgggg aggtattgtt caaatgtgga agtggtgaaa acgtaatctg gctcttcttc 360
 ttcgtcaacc tgtgacagct tgctaaacgc gcctttcatc tttggaagtc gtgggctctc 420
 atcaatctct ctggttgatg caatggcttc atgttctgga tcaaagtcgg acccgaaaga 480
 cggaagctg ttcgcctgtt tatcgcgcca catggctgac gcgacgtttt cgaggaagaa 540
 tactcgagag gacgaagctg agggttggaa gtcctccgct cctaattctg aggggttaag 600
 atgtatctgc ctctatgata tgggatgtgt gtgaaacaaa acagcgcgtc gagggggttc 660

cgcttgaggt aatggtaa at ggggaggctg ggtttgttta cgggtaaccc gtgctaaatc 720
 actcaccgct ttctgcatac acaagattca ggaacgtgcc aagcaaagtc atcagacttg 780
 cgtcttttaa ccatgggttac tgcaaggctc agggcatagt attaattcaa gatgaaaatt 840
 gtactattat acgcatgata aattatatgt gcagccaaac ccactaaatg ctcttttccc 900
 acttaacgat gcctcccaaa cgcttgcta ggtccataca agaaattcca aaaccatgga 960
 cagaaaatcg tagagaatct tataatcgta gcaggtcata tccataatag ggtgcacaag 1020
 cgctagctca ccctcggggc ggatttgac tattatcgcc ttcagagcct gattctgtcg 1080
 ttctatttgc cgaagtgctt ctgatgcgc tatcatgatt aaaagtacca gccgttgccg 1140
 gcgcacttcc ttcttcgctg tgtgttatag gcgtgggagg gtcattactg attgggctcg 1200
 ccacttcaat ttggatcgta ggtaaggag ttaactcacg cagccgaggc gaattgtcgg 1260
 ggtgtaactc tgaaggggga ggttcataag aggagcctct cccaatcca gattgtcgta 1320
 gtccgaaggc ggaatatttc gtgtcaaac gtcccatct tcaggctgtt cattttgatt 1380
 gtgagcagag tgcagagaag tggatatagga ttgttagga gttagaccct ccccgctcga 1440
 tagcgccgaa gaataagatt cgccacggga atgcacgctg ataaatccag atgagcgatc 1500
 agggccctcg ctcatcgcg cagcgctggt caaaagaggc cgagaatctg aatcgcgta 1560
 actggctcga acgctgaac cgctgtgcg aacatagcct acatcagcat aagtgaact 1620
 tgagatccgc ctatcgcg cgcgactctg agcttccgct agagccgtag ccgcccacac 1680
 cgaagtactc ccgttgacag attctcgact attggcacgt gcccgggcggc tttccgccc 1740
 aagctgttca agacggacaa tgtctccacg ttcgcggtt tcacggcgct cgcgtcgctg 1800
 tgcttcgcg tcggcgattt cctgacgccc ctgcagtcga atttggtaca gcgattccat 1860
 catttctcc cgccgctctt ctctctctc cgctgtttcc ggaaattcaa ccaccacgtc 1920
 catttctct cgttctccct cccttgcgat cacttgcctt gtgggttttg gcgtcgatga 1980
 gtaggcaggc aggggtatta tagaacgaat cgaggatcgc cgacgaattc cggcgtcaga 2040
 ttcggtctgc ggaccgccc cgcggtttg agcggtcgt gtctccccg ctcgattggg 2100
 cgacgagcgc ccggaacctg gccgtacgag gcgccaacat tccaccgatt ccatctatcc 2160
 ttgagatatt ttcttggtat gtatttaggg cgacagttca attttcggag agcacgtagg 2220
 acaaagtaga cgatcactag aaatgccacg acgaacacta cgatggcggc aatctaccac 2280

aagtcagtag tgaacaggca atttacctgg atgaatgaag acccacgata atgaccacgt 2340
tattattttcc gctccccgaa ccattctttg taggggttgg ttgcccttct gttccattgt 2400
ttgagtgttc attagtcgga ggatccgagc tttgacgagg ctcgagctgc cgcaacggga 2460
ttggaatcag catgctgtgg aaagggacaa agaaaagcga aatcccaata gaagctcagt 2520
ccgacgcata tagagccttg gggaagtcga aaaatgtcga aaaaaatcag caatcaaggc 2580
ccagtctttg cttgtcgacc gaaccaggca gagacgaata aaacggcctc gagcggaaac 2640
agcagagtcg gcgaatgcgt tgacagcttg ggtgtcaatg tgggtcggtc tgccgttgaa 2700
atcaatagaa acgagatgaa acagacgcaa tgtct 2735

<210> 2884
<211> 1427
<212> DNA
<213> *Aspergillus nidulans*

<400> 2884
ctctcttctc tacgacatcg acatgatgtc cctatttggg ggtaaagaga gatctctggc 60
ggaatggaag tatctgatcg cctccgccga agagagcttg catattgtca acgtgatttt 120
cagcacggag tccgaggcag ccattcttga tgtccgaatc aagtgatgta cttgaggact 180
tatcgcaggt tccccagatt gttcccttta ggcataacaa cgcgagact taggtactgt 240
gtgttgcaat ggaacgtgta aaaaccagtc atcttttgca tgcttttagt agtctagctc 300
tggcgtgccg agatcccagc cttcaagatc tttatcttgg ttatagaatg gaaagttgtg 360
ttattcccag cagtgattcg aagcagcttt gaagctattc ttggggcaca aactgtcccg 420
atggaacttc aaactgggtg aattcatcta ttggaggtag cgttctgatc atcggtggtg 480
agtaacttat atttgcacat actggaggga cccaccttgc tgccaaagag gatgagaaaa 540
aaagtgaag cgagcgcacg agtgacacaa aaataatatc tacttcatcc gcaccaatca 600
gaattgaaac agccctgagt ctggcgagac agcaaggtgc tcttcatatg gggagtatgg 660
gttcgattac ccacacgcct ggatcttttg ctgcgtcttc agcattgagc ataggtgctt 720
catcagcatt aaaccctaaa ctaaacagcg actcttttac atgaaatcca caattttaaa 780
accttttcca ctacctgggc ttaaacgccg ttacttttat tctacttgcg cttagaaggg 840
ggaaaataca taaccacaaa caagcattcc accacatacc atcccacccg ttaacgctcc 900

gcgacgaatt ctgtctcgcg cggtagacgt atctcgctag aaagagggaa aaaaaggtaa 960
 tggattttgt tctttctctt gccgtagata tttgtgcaga atattcgtaa tttcatgctg 1020
 attatagata atcctacaca gtaccgacgg atctacactc tcctcttacg agatgaatct 1080
 ttacgagatg aagctttttc taccttccaa gaatggctag agcgctcaa taactaagag 1140
 tctaatacgg aaatatcatg ttattttcat tgtctaagac tgtgcagacc aggcacagtc 1200
 ttagtcaatc tcattagtat tcagcctagc ttctttgtgc atccgcactc ctgaatacca 1260
 gactccttca tacttccaca tcgtgtacac atgggtgtgt cgctgataag gactcctcaa 1320
 ttatgccggc gcattgtgcc cgttgaacat aacatccatc aatagggttcg aaaacgtgtt 1380
 cctacaccac cctcctccc caccattttc caggccatca tcgggcg 1427

<210> 2885
 <211> 730
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2885
 tgcgctgggt ccaactatta acgtggggac ccgttgacca caccgcagga tcacggcatc 60
 gcatecttcc gtttagcact ccggcctcgc tcggtagcaa gccagccgct atctgcatgg 120
 gtaccagacg tggctaccac ccacctaacc aagtatagat ggaagggtc ctatctctcg 180
 ggcactgccg gtatacctca taaattcatc gcgccatatt attgtaccga gcgttgacgg 240
 tgtcccttta attaaagaaa atatagctta ccgaagacca gagccatctc cctctataac 300
 tagcacattc cagccctttt tagtctcttc tccttgatcc agattgtcca acccatctt 360
 gaccctcatt ttttttgttc tctccctccc atcttatcta cctgtctata cgactgggc 420
 cactgtatag cacagaaatg aaccctcccc aaggcgtaac aaaaaccatt ctgcgccctg 480
 gaaacggccg cgatagcccc cacaccggtg acaccgtgat cattgactac acaggatatc 540
 tttatgatga tacacgtggg gagaacgagt actttatggg gacacagtgc gtacccgcca 600
 acgcaaacaa ctgcctatc taccttccac tactagtctt agcgtgtatt ctcaggattc 660
 cacgcttggg gggctcggca aaacagctaa ctaatttgta atgctgtaga ttcgatacct 720
 cgcaaggtcg 730

<210> 2886
 <211> 1630
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2886

```
ttaatgttta tagtgataag aaaataaata gtgaaagaaa aaagttagaa gggagtgggtg   60
aggggagaga ataatgaata ataaaaaaga aataaagata tagaataacg accgcgcaga  120
attaagaaaa gaaaataacca agaaaaatgg ggaattataa caccacagaa aataattgac  180
tgtggggggc aaaaaaatta aaaatggccc cctacaaagt tcgcagtact taaaattttt  240
ttcccaatth gataagggtt gttcgatgtt cgatattcat ttattcgtag cgggttatgg  300
atcagagtaa tggcttgtct tgaccaaatt atacagctgt gctcgcagtc aggtacttac  360
ctatcagtaa ccctcctttc agcctcaatt cgctccagcg tacgcttatt gaaggaagac  420
ccactcacgc tcacgtttgc tctaagtgcc gatttccctg ttcccgctct ggctgggttat  480
acaatagtag ataagaatta agatctacag ggacggccga gagaacgccg gtggtgtgcc  540
ctgcgatcat ccttgccctc gtagtagaag gatcgatctc tgggctaaag ttcctacaaa  600
ccatacacca ctgtatcgta tatcgcaaga tatgacctgg gaaatctatc caaacatgac  660
tgggcctcgg atccctgtct aggactatga tcagagcgag gatgacgcca tttacctgcc  720
gtctacatgt atcgggtctgt tttccaccgc taacgagtga tcgcttgccc ttcagcgcag  780
tttctttcac tgtatagggtg aagtatttct caatctattg aatcccgcag gcgtcaggaa  840
atagcagccc cgcagaagcc acaatatacg gtataaccgg tgcaaatctg tgcagacatt  900
acggctgtgg cttgaattag cccggccacc aacaagtagc agcctctgag ctggaccctg  960
gcttggcttg ggccctcgc gctcgtggca gccaaaggcag gaaatacatg atctacctac 1020
tgtagtacgg tgtacgatag cttcaagata gacggtgacc agcaaaagcc gaactcccga 1080
agcacacaag ttatctgtta ttgggtatac aagcacggcc gcataatgca gatgcatgat 1140
gctccgcagg gccttcacga ctcgagacaa tatatactag tagatctttc ggcacagcgt 1200
agcttggcta gatacctaatt tttgtatgtg tgctttgctc ttcaccaaca ttttactaa 1260
gagtctgacc acctacttcc caatcccgtc ggccggcagac tggagactcg cttaacctcg 1320
aagttgggta cctactcatg cacaatgata tcagattgga tcctctatca cggctctcctg 1380
gcagtagtag tctggactgc agaagtctag tgtctgcccc tacgtcttag gtaggcgtct 1440
```

atcactgagc cgtacatata gcgtgctctg catcaccgat gtgcccagcg tgcggccaca 1500
gctagcatatc ttgctatgtc gccacttgtt gctaattgtc cgacacatgtc cgagacatga 1560
tggattgcaa caggcgaccg tactcaccgt caatgaatcg gatcctaagc ctgggtcacc 1620
taagtagtgt 1630

<210> 2887
<211> 895
<212> DNA
<213> *Aspergillus nidulans*

<400> 2887

tgaacgtgca gaacatcaat atatgtcttg aagagtgtct tctgggttcg ctggcgaggg 60
ttgactcgca cagggttcga tcggaagatt ccggttacct caacgcggtc acctgctttg 120
cacacatcta ctaactcgtc gtaaacacac agggaaactg agtgagggtg ctggccgtca 180
gggatgctat caggagtctc ctgcaacttg ataactgtct tatcggcaaa gacacagcgg 240
ttgtgcacga tttccatcga gtttctctcc tggcatgcct gacgcggaca aatggtgggt 300
tcggcaatct tgccgcggtc gatatccact tggactgaat ggttgcaagc ttgacagcgg 360
aaaaacgctt gatgaagggt tagcatggcc ctctctgagt ttggagaaat gcactaacct 420
tctttcatat cggaatgat gggcgtagct cggatcacta gacccttaat gtcaccaac 480
ttgtccatat ctagtagccg tcagcgattt gggtttccgg gaaataaaaa cttaatctta 540
ccagccgggt caaggtctct catattgact gtggcatcaa ggccgaacgg aagaacttta 600
tatggcttgg tctcggcctc tgccaccaag tctggaattt cagcctgtgg catcctaccc 660
gtctcactca tagcatcaga gctgggaacg accggagctg aactcagatc tctgtgattg 720
cttcgggtcc gctgaatccg tgatcgagc cgatccatgt cttttgcagc taattcgacc 780
ctgacatccc gtacgctttg aaccataagc ggaatggatt tctgaggag gcctggaccg 840
atgctggcag tgtcccgcgc cgggtgctcc cagacacttt ggattggacc ttaac 895

<210> 2888
<211> 1083
<212> DNA
<213> *Aspergillus nidulans*

<400> 2888

ttcctttgac acgacgcatg gcttccctct aggattagag tatgtgaagg gatcagctgc 60
 gccataaagc acagccaatt ggacgcacac caccgccaat tgccagtcag tcgcgctcta 120
 ccataagtgc actcttggtc tgacgtgta gcacaagata ggcggatatg aagcgcaatg 180
 caggtgtctt ggacaaggct tccaggaacc ttcgcaatcg gctctgctcc ggtatgatcg 240
 gtcacactta gaagacatcg attgccttga tgtgggttga caagggccgg ttaggagaga 300
 taagttgctt gcgtcgtcga ggcctagata cagtagtact ttttgaagtt cgagaccgaa 360
 agccgttcat tggccttgac caatattccc tgttggcttg tataaaatgg ttgtaacata 420
 ctagagcagc ctatttagta aactagtctg gaccaggatg ttgtatgatt cttacctttc 480
 gtttgtacct ggtcgtcacg ctggtagcta ggacaccatt ctttatgctg cttgtagcaa 540
 ggtgggttag tacagtatga ttagggttat tgagaagact gctatcatcc ttcacggcg 600
 tagtgccgtt gaggatagac tttccaagga aaagcggaag gctcgggtgtt gttggcgct 660
 caccgatgat attgactgct tgetgatagc acgggctctc ctctcttcta tcaaggtcga 720
 gcagaaactg agggacgact ccacggaagt caccgatagg aatttcctcc ggctcctctt 780
 ctttttcttg cttctcgtca tcaacagcag tttcgacctt cccatccgca acttcttcgg 840
 gaagtacctg cggaggggtg acccctgagg gtgcggattt gtcactctct ctcttgaac 900
 gatttacatc gtcggcacta agttcgatat aattgacgag atggttcgta aagtcaaccg 960
 cggttggtag attgtccgaa gcgcgcatct caccatcaac aataaacttc aagtgatgtg 1020
 ttccggggcg gaggtttagt ttcgtggaca ggacatcggg attattctca ctgttcgaaa 1080
 cga 1083

<210> 2889
 <211> 1642
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2889

acaatagtag aatgagattc aatcagccaa agtcaacaga gcactgatga aaagcaagca 60
 tatccaagtc cgttttcatg aggttcaaga tggggctgac gatatgaagg atgttgtttg 120
 gcggacctgg gccgaactgg aggcgggggg caggtctggg gaagaaatta tataaagaaa 180

cagacccagt ccgaagcact ctgtacggag taaaaaaaaag atcgggtccga ccaggggaat 240
cttgccaagt tcaagccctc aagagataaa ctccactata acccccaatt agcaacaggt 300
tgcgctgcg aacctcctga agagggtaaa aaaccccgcg cctgagtcac ctgactggtc 360
ccgtgccaac gctcttacat atactacaaa ggggtgtctt ttgtttcgag taatccaacc 420
attgctttga gtccattggt taagcccata gtttagagcc caaggcaatc tcgtcagcag 480
actgcattgg aagtaagcgg acagctgctg aacaccaatc gttcaagtg caaaaataag 540
cgggtacagt tactcttcaa atcccgccac caaatcgag accccggcta tactgaaaac 600
aatccaaaaa aaagaaaaaa aaaaaaaaaa aaaaaaagga aagaaaagaa aagaaaaaga 660
aaagataaag aaaaagaaac aggttcacat cttaatgggt tgatccggct caacatgctc 720
gacatgagga tggtcctcga caaaggacat ggacgtgact tggtctggca tggcgaccct 780
aaacagcgcc tcggctagta tactccaagc attgggtagg gaggcaagac aggtcgatgg 840
gtagcactca cgcaaatccc ttgatcagct tgtactcgtg agttatgggt cctccgttgg 900
agacagcgct gtccttcacc ctatacgggtg taaacattaa atattctagg ctctgcgaga 960
gtctggaatc catacgcttg gatatacctct gctgttgctg taggcttgag tttgatctat 1020
tcaacagtc ataagtttcc aattacacag ttgagggctg aagacgtacc atataggtcg 1080
gcatcgtgct tgaacaatac gcctgtgttg gtatgtagat atggactgta gaaaatgcgg 1140
gcttgaaggg agttgaatgt agacaagagg cttgggtctca cgtttacaaa gaacagttgt 1200
tttctcgtg gactcaagtt acggcgatct agcttggtta agtactggga atgactagta 1260
cgtcattgtg catgcacaag atagcctttc gtcaattgca gtaggctgat cttgcacct 1320
gtcaataaaa cctaggtgga gctatatggg atttgaagct agccggttta cagngacgta 1380
agcccaggta aagcaaatag taccttatgn ggtgtgaaaa ttccttctat cattgccgaa 1440
gtaaaacaggt acatgccgag tcacctagga agggattaca gcgcggttgc catgagccgc 1500
taccagatga tacacaagct ttacaggta ttagntata taatcatata tgcgcaaata 1560
gcctgaatta ccagttgctg gtgcgcttag agcctcggtc tgaatacctc gaccagttcc 1620
gtctggtcga gaggaacgcg ag 1642

<210> 2890
<211> 1695
<212> DNA

<213> Aspergillus nidulans

<400> 2890

acccttagcg gtgtggactc gccgtctaaa ctgtgcgggt cagctcgacg gcgaagtgca 60
cactcgagca gtttatcccc gtaagagaag ttgagagaag ttgagacgtt ggcaatctag 120
acaagaccgg ggttcgcgta cttggtagcg ccggggtagg atttgtatgc ctctgcgtca 180
atggggcata agaaatcagg gcagccaaga atgagttttg aatgggcgtc gattggggct 240
gaattaggta agaaaagata aatatatata gtggtgaaat aatgatgagt gtgcgtctgt 300
tggcaccttg tctggctggg gatcccgaaat tggatagcta ggtaggaagg tgacgggttt 360
aaagccttag agaagggtag gatcaccagt gagggcacag tcattttattc atgtatgtca 420
tgtgtccctt gctatctgtt caaaatcgta agtatggacg atttatatgc aatatgcca 480
gagtgagcgg ccactcacgg tcaccacatg cctccaaaca ctgctcttgg ccaactaccc 540
cgacttctct ggcaaattccc tatacggatt cttgggatcg ttcaactcct cctccgcaact 600
ttgaatggtc tttatggcct tacaagggct acccactgca accgaaaacg gcgggatatc 660
cttcgtaacc aactccccg cccaattgt gcacccttct ccaatcctca cgccaggcag 720
aataatcaca tttccccaa tccagcaatc atctccaata aacacggggg gaccaaactc 780
gacgaacttg cgtcgggata ggatggatgt gtcgtggcct gccgtgtaaa tggatacgtt 840
aggaccaagc tgcacgcggg cgccaatgac gattaggctc gtgtccaggg ccgtaaagct 900
agccattaca gttagctcga ctagatatag ctaggaggcg aagacaatag ggaagagaca 960
tacttgaaat tcacaaagca ttccttccca attacaatat tgcacccata gtctggccaa 1020
aatggaggct cgacaaaggt gccttctcca acccgcccaa caacattctt taacaactcg 1080
aaccggcgtt cccaatctt ctcccaggag acggcctttg tgtcgagatt gttgtaatca 1140
cttgtcactc cccggttaga atgtctcttt atttcttgag ctgtatgcat gtaatttctt 1200
tttctctcc ttattttact tttcatatct atttctctcc tctttctatt atttcatact 1260
tcttaccatt atatatactc tctcttttac tccttattaa ttttattatc tattttaact 1320
ttttcttttt atttatttat tatcaaatta ttattttttt cttcttttaa atttcttatt 1380
tcttactatt tacttcttta taaatacttt atttacttaa caaacacttt attacactta 1440
tcctttctta attttattct attttctact cacacttcat tccatttctt attatattat 1500

taactttctc tctctatcat tattcttctc ttactctttc atttttaact ttatattatt 1560
tatttcctct aatgtaattc atactcttat ttctttatta cctctctttt cattttatac 1620
atatctctag tactttttctt caacctcaca tactttctac tatcaaaatt actctactta 1680
ttttcctcta caatt 1695

<210> 2891
<211> 1206
<212> DNA
<213> *Aspergillus nidulans*

<400> 2891

gtagaataac cctcacaaag ggatctttct tttctagcac gtgaaggaca tggacgatac 60
gcgaacatga aacaacgcga ctccaaatga aaaacaagca gtagacctta acgcatgata 120
tccatatgca gttagaaaat aagaaaccga gatagatgag atgacggaga tgggagagac 180
gaaaataaaa ctgggggtat agattgggtc gtagaggaga ggacgacgaa gtagcatgat 240
aggtagatag atggacagtg gtataagtag tggatggtaa cacaagactc gcgatgaaat 300
tcaaaaaacg atgtgaaaat agaagctcaa cgcctaacca gtaaattctt aaaccagg 360
ccatgatctc gttccgaacc aacgctctat gtactgtagt gtagtgtatg attcagatga 420
agtagtcaga cagacagaca gacggacgga caaatgaaat aaggaaataa aaataaatca 480
ttcacaaaag aaagtctgtg attacaattc gttatggtca gggatgcggc tgcggtgtc 540
actgccaggt gcaatgccgg gcgtttgcag catctttctt ttttccgacc tcgtggtcac 600
cgcacggatt ttgagttcgg gtcgctgtgc gacaaggctg cagcttgtgt aacgcaggat 660
gactcgagaa ctgagcgctg ggattggcgg atttccaacg atttcttttt atagaaaggt 720
cgttattggt cggcgggtgga tgtatgtttg tagatcttgg atttgcaata ccatcgacgt 780
gcatgagggc gtaaattgtg agtaagatat tgaggctgtg gaaagaaaat cacagagccc 840
acggggcttt gcagttgctg cttgctgttg tttcgtacgg tagagatact ggtacagatt 900
ggatgatgtt ctggttatag ttgatatgct gcggcatggg ccatgattgc gattgggtatt 960
gtagagccta agacaagttt agtttgatgc ttaaagaaat caggagccgt gccgcttacg 1020
ggatgaatca gactgtccgg aatagtagag atgggaacca tgctcgcagt tgcagggggc 1080
ccagtgtcag cgcgctccca ttggcagccg tcaagcgtcg catgcacggt gcccggcgaa 1140

gacgtcagct ccgagacgat gattgggtct ggatacgagt cgaccaaacc ggccggtgtc 1200
 gatgaa 1206

<210> 2892
 <211> 1457
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2892

aggtctttgt ctctcttgtc gagagcgccg agatcgccat cacgccgtcg cagctttctc 60
 ttgatttgta gatcttcag aagcgcgctg agatcgccg cgttctccct aggtaaggag 120
 aacgtatgat gaccgtcaag ttctctacc tggccttcgt ggcgagcacc taatcgtgcg 180
 gcaatatccg acggggacgt cgaggcgctc aggtggaggg cgaaataatc acgagtctcg 240
 taggaacggc gaggatgaag agatcgcggtc gctgcacaga agaggcccaa ggccgctgct 300
 gcaccctgga gacgcattat ggaaggcgag gacggaagga gaagataaaa atccttctca 360
 aacggacgag ttaaggacag ctaacagcct gacatcgag gacagcgcaa gcagagactg 420
 gagagcaatg atgacaatac gccacaagaa ttgattgagg atagaaacaa cgtctattc 480
 atccacagat acaaatgaga gtggaaaaaa ataaaccaa agcgaaaaaa aaagtcccct 540
 aatcagggga gtcgtgaacg atttgtgttg aatcagcgga gcctagaggt gttctctagg 600
 ctgagacccc gatctctggc tttattatta gtgtaatacc gtcctgtact gatcgctcc 660
 tgaacaaaaa ttctgaatt gtaaggctgc gatgccaagc tgaggcgggg acggaccgca 720
 gagttatgcc gccagcaatg aacacaacat aagacatttg tgcaaaatac tctgttcgcc 780
 tcgattattg tgcaattata gacgggaaac actctatatg ccaccatata attgtctcta 840
 ccctcgaaag tcgcttcac cagcaccacc aagctaagat tatgacgcta ttacagggta 900
 gatgtattca gggtagagta tggctctact acacaatgtg ctgacaatac accctgccgg 960
 aatccacaaa cccacattgt tcctttgcga cgcaatatga gctttgcctt tttatattgg 1020
 acataagtca gatcaagtgg aaatcggacc ggacgcaatt tagatcggtg gtgcctgggtc 1080
 tattgtgcag ccccgcatc tgcacagaa gaggaggctg ggcccagcca cctgggctct 1140
 ctcaaatgc atacgcacg tcacctaga taaaatctca tcgcgacaat ctcatcatt 1200
 ctttttttat tgcttcgctg cttcattacg atcgactcg attgctgcct aattgtgggtc 1260

aatttcttgc cgctgactct tgtacatacg gctgaggagc tggagccact cgcataagta 1320
 taccacttgc gcgagcatgt gtacaagcac tcggctattg tggactctgg ttcagcatct 1380
 acacaaggca acattctatg cgcttcatcc gtgaaatggc gatctaggcg atctggtaca 1440
 ttgaattctc gatagag 1457

<210> 2893
 <211> 2093
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2893

agctatagcc ttctttcgaa tgtcccatc gtgaattgcg tttttaatgc ctccactgaa 60
 tacctcattt cgagcttcag attgtgccac cgcggtaata ggaagctccg tttccaggta 120
 atcgattgcc tctttctgtc gaggggccca tatccccatc gtaccatcgt cactagcgct 180
 gaccagcatt tcttggcctc ttttgctaatt ttcgacactg tttatgacct cttcatgacc 240
 aatgtagcgc cggatcctct ggccagactc tatatcccag cttgcaagag tcatgtcagc 300
 cgatgctggag aatatggttt tggagtctcg tgaccattgc aggtcaagaa tagcgccttt 360
 gtgaccagat agaatgccgt aattttcgca ttgcccatag gtgttccaga gtactttgta 420
 aatgcaagtt agtcattatt cgagttcatg tcttagtctt gacttacata tagatcgatc 480
 catggaaccg gatgcgatgt gctgagccgt tgggtcaaact cgtacggcga aaacctcacc 540
 agaatgacct gaagtcttgt attagcatag ttattccagg tagatcgcat tcagcctcac 600
 ctgtgagctc catgatcggc gcgttgagac cactggtacg ggggacctgc aattaccgtc 660
 aatgacgata tttcatcggg atttgtgcgt cgatagagct ctccataccg cttgtacgag 720
 ggttccatct tgtcctgagc tcttgacaac agctgcacta ttatcgagtc caccatcaga 780
 tttctttcgt ttcacaacca attgacttga cgagccaaag gccgtttgtt ccggttggtt 840
 ctcgccggac attctgcaag aaaatgggca atttccaaag actgaaatgg gagagaatgt 900
 gatatgagaa gtctgggggc ggtaaacagc cagccgtagt aactaagcag gtatcgcaat 960
 caagaaaaac ggggccggta gacctcgggc ggtgaccaa tcagcgagac gctagccgcg 1020
 gcaggcgctg gccacgtatc taagcgcgta aagctccgca ctcccagcc taagcggggg 1080
 ctcatcctc ggcgattgaa tccgtgtagt attgcggaga tcgattaact ccgtgtcccc 1140

tccctgaact tagtcaactga acatcctgaa cagagtctgt gaccatgtcc tcaacgaaag 1200
 tgtcgagaat tggagaagag taagtaattc tgatattgga ttaaccagcc tgctaacacg 1260
 ttgatctttc agactctgga agtcagtaag ccgcccgcct ctccctcactc tagcagcctt 1320
 gggatagcta ccgaacaaat gcaactgatac gatcggttgct tgcagaaaca agatcgataa 1380
 agttaatgcy gaattgggtga cgctgactta cgggacaatt gttgcacaac tatgtcagga 1440
 ctacgtcgya aactaccccg aagtgaacaa gcagttggag aaaatgggtt ataataattgg 1500
 aatgcygcctc attgaagact ttctggcaaa gtccaatgct caacgatgtg ccaacttccg 1560
 tgagacggcg gacatgatct caaaggtacg atagccgttg gtaaaactacg acgatcagct 1620
 ggatctaccc agtgaagcta atacggatca ggtgggattt aagatatttc tgaatatcac 1680
 cccgacggtg acgaattggg ccagcgacaa caaccaattt tccttgatct ttgatgagaa 1740
 cccgctagcy gattttgtcg agttgccaga cgatggacga gcgcaggatg aattgtgggtt 1800
 ctcaaatata ttgtgcygca ttcttcgggg cgcgttagaa atggtaagtc taaaagactc 1860
 ctctccaatt gaccgcacg ctagcgctaa ctaagaatta atataagggg caaatgcagg 1920
 attgaagctc gttttgttag cggcattctg cgggggggatg tgcgaactga aatgcgggat 1980
 tcgcttgtga ggtatgttg ggggggaggg cctccgtagt caaattgcc cgggtgcggt 2040
 tgttgtgggt cagtgggtca gatgttcggg gctttcagat taggataact atg 2093

<210> 2894
 <211> 3785
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2894

ctattattga gattgggtgag cgattcctaa tggttaaggga cgtattttaga tggatcttcc 60
 tatctagacg tgccgtacgt acaagaagga atcgctaaag aagaaatgag aaagaaggat 120
 tgttgttgca aggaagtctt gtaggtggct caccgccttc aggacagcgc aggccttggc 180
 anagtcacta aggtctaagg tccttgata ggcaaaggac ccataacaca tggcaaaagt 240
 aggtactac ttgataagta cttcttaaat acttactaac tatttatattt agttattata 300
 cttttctgta tctttaccag ccaagaaaca acagaagact actatctttt atttaagagg 360
 gtttttactc ttatccagaa gattactgga tagcctatgc agtttaattt aatttactct 420

agtaggattt atgggattat catggacata gataccaaac agtatattgg taagcaacta 480
 cttattaagt actatacaac tacttacgaa ctagctagga cttgggcaat accttcaaga 540
 agttgatccc ctttattgac cagtactgtg gcagctgaag ggattaatta tattttatta 600
 agtccccctt ttttagccaa tcctgaagt agttgggtgc tataccccaa gtccatttga 660
 atgcacctga atgctggtct aattgattgt aaatctgaag aggattatga tcagttatgt 720
 gatttattaa ttggtaagta cttggttact ggttacaggg gtggctgcta actgctctag 780
 ccaacaaaga gccaaaggta caagcctggg cagagtacaa aaagcaacct gttatcaagg 840
 ctggacttaa taaacactgt tcaaatttc cagtatttat ctataattct atccagaatt 900
 atataaactt agctgaatag tcttattaca aagcaaatac aggtagcaag cagttaatat 960
 taactgcagc aatccaaaag taagtagtta ccaagcagtt cctaactagt tacggagtat 1020
 gtactcacag attctacaac tagttctgcc aagctagata aacaagatat cctgcaatat 1080
 ataaaccaca ccaactttaa tattcactat ttataccaaa tattaatat agagacaaac 1140
 tatttgccgc atattgcgtg tgaaggtaaa tatatatcca cccaacaaca tacatagcaa 1200
 ctatttacta agtacttaat cctgcctaga atcaaggaaa catcgctgtt cagcatctac 1260
 atatctatct tctacttcca agcctgaatt agtgccgagt aggtcttaat cacggctccg 1320
 agttccgagt gccacctggt tagctattgt taattgcttt gcaactagtt ggcaactaat 1380
 taagaactag ttcttcgtcc acttcatctc gcaatcttcg tcgaacttcc tcacagaata 1440
 taatgacctt tgagcaggaa agacaagcat tagagcttcg cgaattagag cttcgggttaa 1500
 aggaaaagga ggaggctgta cgagaaaagc aacttcagaa tgaggaaaa gagttggagc 1560
 taatggaaca acgcgcgagg cttcgagata tgaataatta aaaatacaag cagtctgtaa 1620
 gcggtttcca agtgattagg aactggttgc ggactaatat taccttataa ttatggactt 1680
 gggtcgaata tcacgtcga catcactggc gtgcctgcct tgatcgcgga gggcgtgaaa 1740
 tgacggcatt caatccaagt tggctgtgta agccactgaa aacttcagac gctccgtaat 1800
 taatacgagt tgcggtatcg ggcatgtgcc ccgctagccg catcacatga ctggtttcgg 1860
 ggcgcccagc cgttcggagc aggccacctc acctgtaacc tgaaggattt acaaggagtg 1920
 cagggtggaga tgggtgaagc catcagccgc agcaatgccc catctcgaca gctggagacc 1980
 aaaggaattg tgagctgaaa ctcttggtc tggtagctgg cataatctct ctaaaccgcc 2040

ggtttgaaat caccctcgct ttcaagtatt ccttagcgct ttccttcaag tctgcaggtg 2100
 agtgaccccc gtcatagaat tgtgggcttt aacaggatag atccatgaag tggtgaaaat 2160
 gaggcaggca ttgcgccatc atttacttct cagaaaagct atccttgcat gcttcctggc 2220
 ctcttcagct ctacacagaat ctagctcacg ataaaggctc ccaaatcata tttttataat 2280
 tttttatagt atgactcacc cccaacaagt gatcgatctc gcgctttaa tactcggcta 2340
 ccatacgagg cgaggccgt aatttgccag gccacccggg tataattccc attcttaaag 2400
 aggatgtggt tatgctgctg atataccgct ttctatagtc aacttctagc gttagatgac 2460
 gaaccgtgct tcggcgctac gttctgaggg tcagcgatc tacagtaaca tggcggttg 2520
 tgagtattag attctcgag gccctgaaag actgtttccc cgatttggct ttaacgtttc 2580
 cgtctcgct tcagtttggt attggtcagt acaccagaaa ctgctccagc agcgctaga 2640
 gattccaacg gaagtctagg tccggcgctc ctagtgtgat gtaccgatg gttccgag 2700
 atgatttggc ctaaagcca gttcgtatgg caccacctt gccaatcga acagataagt 2760
 atgaagagta gggtaagtct taggaggtca cgctcactat aacatccaag ccgctgccac 2820
 acaagtagta agccaggccc acaaaggagc ccagagcca caggacatcg tctctgataa 2880
 tgagagatgc tactgagcct aactggctac gttatgatta ttctgacgaa gggcagagtc 2940
 catatgatgt ctgacttcgc ccaacctgac agaagctgat gagacgggccc actgaagcca 3000
 tctggccttg tacatctgac tatcgtccga catcctattg tttctgatca atacttttag 3060
 cataaggggtc ctgatataat acagaagcgt cttggatata gatgcacatg gcttcctaag 3120
 tctccacatt tgttaccag ctgctgatga cgcacaagtc attcatttgc atactgctcc 3180
 cctgctgaa cgggccgtga tccaatttg acaattgttt attacggaat cttcgacaga 3240
 tgcaaagttt gtctcttgaa ctcggaacg aactcattcc cctccaagcg cgtgctgcct 3300
 gcacgcgcta gagtgtctg agggaatggc caaacgtct ggctcggta atcgaggca 3360
 aattgccaca tagccactta acggcatttg atgaccatag gagccagggt tatagataag 3420
 agccagttct gtaccgcttc tgggccattt tcgctcttgt cgtgtttctg ggcgatatat 3480
 cttcacatat catgctgtaa agaatcggtt ggctcgagag acgctttccc ttatgtccta 3540
 cctgcgttca ttggaaagaa aagatattat tttccacgct gaagctactg aagctacccc 3600
 acggggcgct tttagtcgca cagggtgttg gctccatgag gaacattata tggaacaaca 3660

gttaacacca cccaacccgt cgtacagctt ctctgtcgct tcaggtcgtc acggcattga 3720
aactgcgggc ttacaccatt gacccttatg ctatactgcg cacaacgcgc gtgaatgtct 3780
ctttg 3785

<210> 2895
<211> 748
<212> DNA
<213> *Aspergillus nidulans*

<400> 2895
gtccccgtccc gtctcaccgc cgcgcgcgag catctctcct agcctcgttc cccaaccaac 60
cgatccagct cattcaactg cgcaattgca ttctctcag ctaaaatctc ctcaaattcg 120
gccttggcgc tctcctctaa cttcgcattc agctggcgcc acacattctc cagactagcc 180
gggacatgtt tcgcgggtgt gggaaaacag gcagcaaaat tagagtacga gtttgcgcgg 240
agtgtacgcg cgagtgcctt tgcgtagatc tcttgcaggc gggtaacgcg ggggcccggga 300
gtttgggcaa tgggcggtt aggggggtgga gagggcgatt cgtcgtcccc taagggattg 360
ttgggttctg gggccatttt aatttttatt tttctgttcg gattgaatat gttgatcgaa 420
ttggtggagg aagcaagagg tgtaatagac tcttagtgat gtcgagttgg tgtgttatgt 480
caaatcgcg cgcgtagagc aaactggtaa acgcgatgat cacgtgctct atatagacat 540
cggcgaagcc tgttacagt acattcaaaa acttgaaaaa aaaaacaatt tgcttttgaa 600
ccattaaaaa tattatttct cataactcta catggcccaa tcctagtctg ttaacggcga 660
gtgctgtcat gcccccaaga cccccgcgg tgacctgcac cgaagtatgt atacaaaaac 720
aggcgattat gtaggtcaga aagagccg 748

<210> 2896
<211> 1186
<212> DNA
<213> *Aspergillus nidulans*

<400> 2896
cttactgcat ttctttgcgg atgaagtga caccgattg ttctggagcg cctgcgctcc 60
ctctgccgct ttcagcgct ctagccgaac ccacgaatc caacctagct tttcattctt 120
tgcaacaata gaagaattgg tcctacgtgg ccctgttgcc cttcttaaga gagagcggct 180

gtccctgttat tgccttttcag gcgacgtatc agcaaagata tacgggaatg agcttgtgct 240
 acctaccggc cccagcgcta cccgcaaact tgccattagt gcacccgacg gcctcatcct 300
 cgctgcgagc attcagatta taacgaaggc ttttgtctct gtgttcttct tccttctgaa 360
 caatcctttg attatgcgca gactccgaca ggagatcgag agtattcccc ggttccgtaa 420
 tcgaactaaa ctgcccctct cgagggacct tgggtggccta tactatcttg atgctgtttt 480
 caaggaaaca atgagacttg tcatacttca gagccagctc aatggaggtc cgagtcacat 540
 ttgaatctct atacatatca tccaagcatg tcccgcgtgg gacagtgtt tcatggcatc 600
 ctcacgttgt actaacaac gagccatat atgagaaca cttttatgtg ttccggccag 660
 aacgatggct tactccgaac cgacagcggc agaccttgat ggaggcctct ctcttaccat 720
 ttatggtttg tcgaattcat tacccaaagc tggaagctgc ttggctgttg ttgaaaaaga 780
 cggtcgtggg gctactgagg gaattctgtg atgtaagttt gtcttggttg ctctgcagca 840
 gtctgtcaat atcgttgagg tcacggcacg attcgtttgg gggcttgcta accagcagct 900
 tccttttagat caatctaacc cagactgagg gtcagactgt tgcggatggg atggagcttc 960
 cccctgggc tatggtagtg gattttatac cgaggcctgc aacagcggag gaatatgttg 1020
 ggcaacttct ttagagggtg caaatgctt ggactctctc ggtgccta atacataatcgt 1080
 caattcaaca cttgcatctt cctccctcat agattctcta tgaccgcact aggctgcca 1140
 tggtatttct agatggcca gccagccggg gtacagcaga tgcac 1186

<210> 2897
 <211> 4224
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2897
 gaagatcgat ccgttttcgga gcttggtcgg gacaattata ggacagcaag tttcgggcgc 60
 ggcggcgagg tcaatttttag agaagttcgt agcgttgctg tggggcttga atcactactta 120
 tgaaaatggg gatgaggtgc aaagagatcg tgaagacgag aatgaagggt acttccctac 180
 accagaggag atagtccgtg ttgatattcc tacgttacga acagcagggt tatcacagcg 240
 caaggcggag tatatccacg gcctcgcgga gaaatttgcg agcggggagt tgagtgcgac 300
 gatgttggtg aacgctagtg atgaggagtt gctggagaag ttgactgctg tgcgaggact 360

ggggagatgg tgggtcgaga tgtttgcgtg cttcacgctc aagcggacgg atgtgttttc 420
 gacaggggat ttaggtgttc agtgagttaa ctaaattcct taacgccttg tttttgggct 480
 tggatttaca tctgcttcgc atccaacgag gcagaatgaa ttgaagctga actggactga 540
 ctgcagcgta ggagaggatg tgccgctttc atgggaaagg acgtaagtaa actcaaggca 600
 aagggtggta agttcaagta catgtcggag aaagagatgc tagatttggc cgccaagttc 660
 gcgccgtata ggtatgttct gtttcaagct ccgaagtttg caatatgtgc tgcattactc 720
 acatctctca ggagcctctt catgtggtac atgtggcgtg tagaagaagt cgatgtcact 780
 gtgctgagcg gctagagcga gtagctcata cacctgttgt ggtctctgtt tgcaagcaag 840
 gcagggacca cgcttatatc atctcaggat ttttagaaac aggcatagat atcttaagtg 900
 tatataaccc gacacctagt gagctgggct ctaggtcacc aatactcgca gcgcataaat 960
 actacctga tatcaagcag taacaaaata gattttttaca gtatcagtac acgtgggtttg 1020
 cacgacataa ctccaaaggc tcaagcaaata ggcagatgct ccaatcgacg gagcataagc 1080
 ccgaaagaac aggtcttgta tegtcttatt ccacacgtct atatccttgg ggagggtttg 1140
 tagctttgta atttacaaaa agctatttat ttctttcggg tgacgacaag gttgtcaagg 1200
 tcggcacgct cggcgttctc cttctcgatc tcgcggatga tggggctgag gtactcgaca 1260
 tcctagcgcc gcaatcagta tgtcatcttt aacaaaccgc tctttagaag gctctatcgt 1320
 tcagtagacg gcatatccgg ggtatcgatt tgttgacaaa tccggcgtag gggattggtc 1380
 aaaaggatgc ggagactgag aaagcgcttg cgactgaaag aagctcaaat tgactcacct 1440
 cgttgggctt gatgtgctcc tctggaggaa gaagagtgtg agagacagag cactattaac 1500
 agccattcgg ttcagcaaata atccctttca tgcttatcat acaatcaaac cgacctggaa 1560
 ggccctgcgg atacggaaga tgcggtcgta agcttccttg ggaggaagac gcttgagagc 1620
 ggtttggacg gtatcgcttt cctcaggaat caagtcacg gccctgtttc catgttaacc 1680
 tgatgctgga ttgacttaat gagagctttg gtggcccaa acaagaggcg atgacgctat 1740
 cgagcaaac ccagcaaat agctgagcag tgcaaattat gctcccat caattgtcac 1800
 cagcgcttgt cctgggttac cagaaaagga gtgcgtactt tagaccgagc ttctgtagc 1860
 ccgcggcatc ggtgtaccaa ttggcaattg gcatcatcca gcgcttcagc caggggcgct 1920
 tgacgatgta actggtgaga gaaggggccc acattttgat tgaacaacaa agagcgctgt 1980

actgttccaa ctgacacaag gaaaagcgga ggtgtcggag agttaagctg aacgaaagat 2040
 ggccccgacgt tgggtgtgcaa aacgggggagg ttcaaagcgg gtgaaccttt ccaaaaacat 2100
 ccgatatata cctgaggcat aatatagaa tgcacgtgct cccgcatac tgtagcttc 2160
 atgcctcagg cgggaaagtc cggaccttct ccggcgagaa acaagttcca ggaggaagaa 2220
 cctttgcgta tgtaaggctt gaatagggcc ttctccaact ttcattagac tactgtaccc 2280
 taatcttacg ctgtacgcta attaggaacc attcctgagc tttttccata ccgccgactt 2340
 ctccgagtcg agtgacccga ctgacaccat ctacaatact tcattcttca cctctcgtca 2400
 ttcgacacct gagggcacta ttttccagat cactaaaccc acgatatccg tcttccgagg 2460
 tgggattggg gttctacaat cgttatatct ccatccactt tctcttctt tttcgatctt 2520
 tctcgtcgcc atagtgaact gacagacccc gcgcccctgt ctgtgcatag atagggcaac 2580
 tttaaatcta ggcggtcgg cagcatcggc tcgcttgata aatccgattc ctggaacctc 2640
 tgcagcggtc gtcttctttc acgacattta cccccccca cccgcgatac tcccaatata 2700
 cctattttac tttcaaaccg cgggtcttcaa cgtcctttgg gttccggagc gggcaccgac 2760
 atgctcgggt ccgggatccc ttatcggtaa agcatcaaaa cggacagctg tggaaactgct 2820
 tgagcgctgg ctgcaaggat gttttcagag gagcagaaga catcatcggc ttccagcgac 2880
 tcgaataagc agcaaagtgc aaattccgac agccctgcgt ccccgaccgt tcatatgcc 2940
 ccagcgggta cgtccagtcg gagctccgcc tttgtcactc gcatcgagct cttcgtcgcc 3000
 ggtgtgccgg attggtatgt cgctccaatt tgcggggcta gcgcaggtgt agcttcgggg 3060
 attgtgacat gtccgcttga tgtgatcaaa acgaaacttc agggccaggg gggcttcgtg 3120
 cggcgaggga aaatggtgga ggcaaaaact atatacaggg gaatgttggg aactggcaaa 3180
 gtaatctgga gggaagacgg tattcgaggt ctttatcaag gcctaggccc aatgcttcta 3240
 ggatatctcc ctacgtgggc ggtatatcta gctgtttacg accggtcacg cgaatactat 3300
 tatgagacta ctggtgggtg ctacttattt ttttttggct agcctcggac tttcactgaa 3360
 ttcattatag gcagttggtg gctatcaaga ggatacgctt ctgtaacggc gggcgcttgc 3420
 tctactattg tactaaccc catttgggtg ataaaaacgc gactgatgtc ccagagtcta 3480
 aggtccacga cagaaggatt ccgagctcct tggcaatata ggggcacttg ggatgctgcc 3540
 cgaaagatgt acaagaatga gggcatcctc tcattctatt ctggcctaac gccagcattg 3600

ctgggactgg cgcacgtggc tattcaattt cctctttatg aatacctgaa aatggctttt 3660
accggttaca gcatcggaga acatcctgat actggaagtt ccactgggt tgggataagt 3720
tgcgcaacat ttctgagtaa gatctgtgcc agcactgtga cgtatcctca tgaggtttta 3780
cggacaaggc tccagacaca gcaaagaact ccgccatcac cttcaccaga ggagattgca 3840
ttccggggtg gactgggtgg catggatcgt ggacgtgggt caggtgcac ttcattctgac 3900
ggtatgccta acaggcctcg ctattccggg attatccga catgtcagac gattctacac 3960
gaggagggct ggcgggcggt ctactctggg attggaacga acctatttcg agcgtcccc 4020
gctgccatga ccaccatgct cacatatgag tatctccga aactcattgg gcatatgaaa 4080
catgagggag agatgaagct caggcttgag gaggaaaaga actccacagg ggcaatataa 4140
ctgattgagc tatgatgtgc atactaatca ctgactcatg gatttccacg acgtgttcaa 4200
aggcttgacg cctgcgttat cccc 4224

<210> 2898
<211> 989
<212> DNA
<213> Aspergillus nidulans
<400> 2898

actgaacgaa agcctgcttc aactggttct tggagtgtc atcgacgtac ttctggtagt 60
aggcgacaag ggacttggtg atggcctggc ggatggcgta gacctgagag gtgtgaccac 120
caccggtgac acggacgcgg atgtcaacgc cggcgaattt gtcggcaccg acgatgagga 180
cgggctcgta ggcctattcc atgtgatgtt agagagattt gtcttcaggt gaagccgggt 240
ttggttggtg gtgggtgtac cttgaagcgg aggatctcag gctggacgag ctggagaggc 300
tggccgttga ccttgataag acccttgccct tgctatgtga ctattagctt cgttgtgttc 360
cacatgtcca agtgtagtgt tcgcgattca aaacaagtca ggttctggcc aggttcgaat 420
atcgggttca gagtcttttt ggcgtgcgat cggggtgtcg ggtaagataa tgcccgtctc 480
ttgattttct tgatcccttc cttcgctaga ccatatttat ttgccccaa gtcaaatctc 540
acatatccaa ttgcagtagt caaacgcgtg tctaccgcac ccgaatcccg cagcacata 600
accagaccat gtttcagaac ccaaactcgt gcggacgcga tggcgatata tagttgtgta 660
ggtgtataaa aacgaaaaca atatctcata ccttgacgtg ggcgacagcg gtagctaaag 720

aaattcaatg cgattagcct caactcgtct tcttttttca agccatgcgg gacgtcgaaa 780
acctacccgt cttcttcttg ccgaagcatt gcacactcgg gacggaagcc atggtgagta 840
tatggccctt gtcggtgtcg aaaggggagt gtgctgggtg gatttggtgg gatgaagttg 900
tcgtcgacgt cttgcacact tctttcgact tgggattgat ggggacacaa taatccgtgc 960
gggtgacctt cgcttagtct cgcgctagg 989

<210> 2899
<211> 5025
<212> DNA
<213> Aspergillus nidulans

<400> 2899

agcatccatt tatatctttt ttcccggcaa gatcctatcc tacgtcacg atcaaaggca 60
atggcgtgct cgcgaaaaaa gaagcaaaga cttggggcggg attcttggcc atgctgccaa 120
gcagggatgc catggcggat tgacgagatt cgtggataag gactgtggct tgcccgggga 180
gtctggggcac ccagtccgct attcgaccaa gcttcgccat agagccgttg gatggcatca 240
tcacgggttc cacgagatat tgggaaagat tagcagaggg tggatataga gagatttgta 300
tgcttcaagg cgtggggggc tgctcgaac agcaaagaag cgaaacgaca aagtttcact 360
gggctgttaa gtgggaagat cctagagatt ccagagctt ctagcgaagt acgaatgccg 420
gattatgctg gttgttcgcg tggaatattc cttcgcaact tctggtcctc gagcttggga 480
cacggccatc caggcgccta taatgacatt tggctataga gcaccaagaa ccgccttgga 540
gatggcaagt agaacctaga aaaggggcat cagtagcgac actctcatgt tggctttgcc 600
cagctttttg tccacctaga cgctggtgat gtctttaatt ccatggcttt cacatacagt 660
ttcttcgaga cgggaattga gtcgcccctg cagggtttcg acagtgatag aacattcacg 720
tcgggtgagg ccgtgactgg atcattattg ctgaaactcg atcggcccac cattattcca 780
aatatcacia tcttctctca cgtctggacc gtgcggtctg gtttattata tctagtgtct 840
accgtcttgc caggctcaat aaggacctct ctgatcggta aaggctcccc gtccattctt 900
gggaatgatc tgccaaccgt agcacaagaa aatcagcaag tatgtataga aagttggtat 960
atttgccctt ggagatctga cggactgtcc tagcttttca ggttggtcaa tcgtcttttc 1020
cctccaggag acgtacctca gcttgccaaa tggtatacac agtcaaacag ggaatatagc 1080

ttccccgtttg aaattttcttt cccgcaggcg ctcaatacct cggacgcgca gcttccctcc 1140
 tcgttcatgg atcaatcggg aacgcacggc gcagaggcac gtattgagta ttccctgaga 1200
 atagatctca aacgccctga ccgttttcga caacgaatca caattgaacg gcacatcaac 1260
 ttcataccat cagatgcagc tcccattcag tcggcttatt attggacctc tggattcaac 1320
 ataagacggg gcgcacttta taatcattcc caacgtatac tcaagcagga tctgggggttc 1380
 cagtgttgat actggacacg atcctgccgt atccattcgt cctgtaccca gggggcaacc 1440
 taccaatgca acgacgttga cgacgtttcc caccaaagct gggctgcatg ccaatcaagt 1500
 tgaagtacat ggccatctct gtgcggagta cgtttactgt ctctgctggg ttataaccgta 1560
 cgtcctggca ttgcctcaa gctctcgtca cgctaagtga gttggacaat ctcatctctt 1620
 gtgggggtga agagggcctt acggacctag acagcagtag tttgaagggc attgtcaatt 1680
 cccgccttg agcattgaca tcagcacctt gatcaagaag tatctgcacc accatctcaa 1740
 aaccttcagc tgatgcagcc tggagtgcac tgctatatct tccacctga gcattaatgt 1800
 cagcacctg gtgcagcaat atctgcacta attcctcatg cccttgggac gatgcagcct 1860
 gcagagcgtt gccatacaat cctccttgag catttacatt agcccatag tcaagcagta 1920
 tatgaactgt cctctcatag ccttcagccg atgcagcctg cagagcgttg ccatatcgtc 1980
 cactctgagc attgatatca gcccatagt caagtagtat ctgcaccacc atctcatggc 2040
 ctttggacga cgcaacctgc agagcgttgc cataccattc aacttgagta ttagcatcgg 2100
 ccccctgctc aagcaaaaac tgcactatct tctcatggcc ttcaactgat gcagctagta 2160
 gggcgttccc gtactctccg ccttgagcgt tgacgtcagc tctcttgta agcaggatct 2220
 gcacaatctt ctcatatcct ctagctgatg cagcccgag tgcattggca taaattccgt 2280
 cttgagtatt aacattagcc acctgctgaa gtaggacctg cactatcttc tcgtggcctt 2340
 ggaccaatgc agcctggaaa gcgctgccat aatatccatt ttgagcgttg atatcagccc 2400
 cctggttaag caggatatgg actatcttcc catggccttc aactgatgca gctagtagag 2460
 cgttcctgta ctttcgcct tgagcattga cgtcagcccc atgatcaagt agaatttgca 2520
 ctatcttctc atgacctcta gctgatgcag cctggagcgg atttccatag tatectcccc 2580
 gagcattcag agtgcccatg acggtagttg catcagccac ggaggctatg agcgcgtcca 2640
 gggttgattg cagccccaaa agagctgtat aatatacagg cgttggtata tcttcaacag 2700

cgcgggttcaa gtccacggtt ttttccggtt gtctatccaa gtcattggaga cgcacccatg 2760
 tcaggaaaga ctttgccta ccacaaaaa gtctcagaat caggccctca gctgccgact 2820
 ccatccccga gccttctctg aaatgatcgt accaatgcaa cgcagcataa tgagctaagg 2880
 gaaattcact gagccttttc tcatctagt gactctcagc gagctctggc tctagaagat 2940
 atgcaagaca aatccgagcc atttcagaat tggctcgttt tttctgaatg gcaaagtctt 3000
 ttgcctgttg ttgcagcaca cgctctgact gaaggctact ttgtacagag aagtgtgcta 3060
 tgcgagcaac agaggctctt tctccattgt tttcactgat caccacaact tctaccaggc 3120
 caccgacaaat gtcaataagg tcttctgac catatgatcg accttcacgc tcaagggtggg 3180
 gaggtgtgt aagggtcaatt gcatgagcat cgaccaactc ttgtactttt agcggccgtt 3240
 tagacacaca gagaactgtc aatatccgtt gaacatctgt agcataatct tcatcaatgc 3300
 tacacaggat tcgctcatat gtttcatcca ggtcacgcgg caaggaaagt agacacttct 3360
 caagctgggt ttggttccga gcacgtttaa gatcaatcaa gtgacattga acatatcgga 3420
 acctgtaaat agcttagcca aattattcca ttacttggat tcggttgctg atacactccc 3480
 tgtgcttttt ttggtcaaact gtctgaatc tcgctgtggc gtgatctcca tttttggaac 3540
 tttgggtcat ggccgagctg gtaagaaaca aagtgtgcta tatccctatc agcctcatta 3600
 tttctcatca tgaggctctg gtgatgagct ggctctagt actgacggat atcgagctcg 3660
 tcacggcttg taactaaaag gtgaaagcca ggtaagtgcc actgccgat tgtctctatt 3720
 acttttagaa caacgtctct tcatgatct cgagggtttt cgtctagtgc atcaagcaaa 3780
 atataagtat cgtggaatct gctgatggtt ttctgaagg agttgagaag ggcttccatt 3840
 ggtggagttc ctggcatgta tgttgcatgc agttgctgca ggtctttttc tctatctttg 3900
 agctgtgcta aaagctgtag taatagcgt ctaatcatgc caggagctgt gatctttgac 3960
 tcatcacgaa aggtaaagta gaagaatccg atgccacat tatggcgacg ttgagcctcg 4020
 tggaaagtag attgaatagc cgtcgagcac aggactgact tgccgcatcc ggcaaaccgc 4080
 tttatccaaa ggaaagaatt gctctccatc aaccagtttt tgaaataatg gctttcgata 4140
 aaccagatcc ccgtgctgt atgatgtttc tcacatgcag cattatgggc actcgtcgca 4200
 tctggagcca taagccaacc acgtattgca gacgagatat gagtcgcgt tatatgttcg 4260
 attagcagcc tgagttccga caattcctct tgaattgtat tgttgccctt gagctgcagt 4320

gcatcaagtg ctagagacag attttcccgat atctcactga tatectcttc gagcttcttg 4380
 agagtatttt tcgaaagggg taagcgaccc gacgcccggc aaactgaatt agacctttga 4440
 atcctgtaga tgatgtctct tgtaatttaa ggcattcggc ttccaactcc tgaataattt 4500
 ccttacattc ccatattgat ctgtgaatac tctcaaccaa ttctcgatca atccgcgga 4560
 agcgattctg taatgcacca tcgatcgacg tgaaaataac taaaagattt ccaagatttt 4620
 gcgtgatctg gttcaaactg gaatcctgat ccttatatgc ggaatagaag ctgataagag 4680
 attgggtgac ctggatacca agggataaca agccagcaac accagatgca atcgatagt 4740
 gctcaccat gtcgagctaa ttcttcgtga gcaatcccta acgacgaagt gtatgagtcg 4800
 gatgttatgg cgaaatctat cgagatattg agatgggtatt tttctgttca aaaatgtggg 4860
 ggatatctgg gtcagatgtg ggcttgctg aacacaggcg ccctattaaa atgacagttg 4920
 gtatattacc ctggctgtca taaagcgttg ccagaatac acggaaaccg ccagtaggag 4980
 tatcaggctc aagttgtggt acatgattga gccaatgact tcagg 5025

<210> 2900
 <211> 2088
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2900

gctttgttag ataaccata acgttgctga ccgtcttgga caatttacca cagagacata 60
 gagctgacga cactgcagta caagctactc ggagcagcac aatggggagg ttatgaggtt 120
 tggagcttct caccgagcc tcataccaac aaaggaggcc tgcctgtgca aaacaataga 180
 cagacaagac attgatagag tctcagctct taatgtccca gctctgaaga agaccccgaa 240
 cagcgtaaatt catctgtgaa agggctcgag gatttgggct ccgttgctga gaccaagctt 300
 tgttcgaaga gcgagacaat gtgacatatt ctgactccat gcaaacggag atgctggtac 360
 cttgctcagc tagccttggt actggctgcg gaaaaggtat ataacttgat tatgtcttcc 420
 gcttctctcg tcaacgcgca gtattggctg gtccgcatag gccatatcca tgtcaacaga 480
 tcgaatcaaa caaggtaagt ccaattagct ctcaccagat ctgcgagcct tctatatctt 540
 ctgcagtact gattcttcac aagaattgcc ttaacacca ccggttgctca agatataccg 600
 gtgcgtcgta taccgatagc acaggaattc caacggccac gccaatgca aaacgccagg 660

tacctgtaag tcggactgtc cgtgccttca ctgtatggcc tgcgtcatga atcaaatgta 720
 tgggaatggt attatccacg aacgggcttc aacgagtcca tccgcaaggc agccacttac 780
 gccgcgtccg ataatggagg cgccgggtcc tcgcattcta ttttgttata ttaaagtgat 840
 actaacggag gtgtcgccac agttgacaca gccctgtcga ttccactata cccatggata 900
 ctgtaggggt ggatacgccg cgtaaagacg gtgtggctag ggggtcgtgc ggatggaggc 960
 caacgctcgg gtccggagtc agtggcagaa ctcggtttcg tcggcttttg tatgcgctct 1020
 gaaccattct ttgacaagct cttataatct tgattatgcc agaaaagaga agatccctgg 1080
 tgagacattt caggcatttt cggagacacc gttgtgcaaa ggagtagaag aagcgggtca 1140
 agtgacatcc gaataatcat caacagggtc ggtattggtc gtcgtaggtc aatgatacct 1200
 cacacagatg ctgtaacaag tcatgttcga cgtaaactgt cctgaacag gccctcacgg 1260
 aacttgcttg agtgatggat ggagtgtacc gtgactgaca ataccatcgc agttgtttgt 1320
 gcttgcttcc taagatcaag gtggatattt atccctgggc cctgtgaag tgttcctatc 1380
 atctttctat aggatgtgct tgggtttcgg aatgattgga gttccacag gaggactgcc 1440
 tttctcggcc acctcggggg cattcctcat acaggggtgt cttagtgtt gaccctttcc 1500
 ctgacgacgt tattcttaga gacccttctt gtttgtgctc ggcgaagtca gagataaatg 1560
 cttggtttgt cgacaaaaac ggttgatcgt ctagacgaac gttcagccta caaacgggtg 1620
 attataaatc agaaagtcgc tgtagtaaga ttagacatag actcctgggt gacaaatc 1680
 caatggtaac aggcathtag tgaagggtgc aagtataaaa gagcaacctgt tcgtcgcagg 1740
 taatgccgat cagccagcac gaacactgat cgacagaacc cggacaatga agaatgccgt 1800
 tctgtccaca ctctttgcat ttctcctctg ctcagccagc gtgcaaactg tgggtacgcc 1860
 ctctggcttc gcagctggga ccacgggagg aggtaatgcg acgcctcaga ctccctccag 1920
 cctagacgag tatgtcccgt gcgccagtaa tcacactaac gttgtagact ggttgaatga 1980
 atcacagacg aactccccg tgtcactccc accgaccgtg aatggagctt tgttgggtact 2040
 gaggacacaa catccacgca gtgatgcagc acccgacaa ctacctga 2088

<210> 2901
 <211> 1479
 <212> DNA
 <213> Aspergillus nidulans

<400> 2901

gtgcacctgg tttgtgcgcg gccgccggcg gaaagctcgg atgggggttac atgggttcaat 60
cttcccccca gctgacctaa gccctgaat gctgccagcc agcgggcgga tctcttgccg 120
tcgaccaaac gtggtgctgt taccctttga ctgcgagacg ctgctttcat ctcatccgta 180
gagatcgagc cgttttctgct agggccaggg tatTTgaaag tggagatgga ccagcaatta 240
atgcgtttcc tggttgctgc taacaagcca tcagagcaac aaagtttttag gcgtcctcat 300
cggtttaaca tgtgcttgaa gatattcgga caataactaa caactgctgc tggcctccaa 360
agtcagggtt taaaggacaa gtgtcgcaaa ccggtcgtgt cctccaattt agagactatt 420
cgctgatcaa ttgggtttgc tgcggatcga tcgacagctg tggactgatc gacgaagctc 480
gacactctcg ccatcagcac catcgtaaa ttaaagcctc caccgcctca cgtacctcag 540
gacctcttac tgtatacgca aagtagaggc cggcaaatca gttcatgtat aactcatctt 600
ttttgggcaa tttgcaaaat aggagtcgca gtcgagcttt cgtgctgatt ctcgatcttc 660
tgctttcacg catagatgcg gcaattcccc aggaaagttc aataatttgg gggtctgcgt 720
tccatggaag cgaatgttac tggaaggatg acatcgggtc tgcgattgaa gtgtcgacag 780
tcaccacgcc gagtttatgg ttgatgagca acggcgcata ttctctgaca accagagagc 840
atccacataa ccttgctgaa tctggaactg cgttgtgagt aactcgggtc ttccgatcat 900
ggcgtgtcgt agcgagccaa gtacgaagta cggagtaact cggcgaaact tagagcagcg 960
gtagatgaaa cttgggtcaaa gtcaatctta caaaagtaaa aacctatagt cacgatgtcc 1020
caaatgtcat cttctgagta agtctcttga gttcaaagga agtgatgcgt gtgactccat 1080
atatactcag cgtactggac ctccaaccga agtaatcttt gagacttgaa acttcgacag 1140
aaagagcaac gcaagaggct cgtgcagcac ctcatgtctg gtctgggaaa ggatatgcgg 1200
taatgtaaag cgatgatcga ggtgaagatg cggaagatgt tgatcagatg gaggacaga 1260
ggagtcgacc agagcgcgaa tggaagcgtg agcggccggc cccctgagtg atctgcggaa 1320
ggatacacgg ctactgaat cgcaactcag gggctagtgg ctgccttagc ctgtctagcc 1380
cgttcaggag gatcacaacc tgactccatc cggatatctg cacataaacg gttcactagt 1440
ggggaggaca tgggggtgga acgggaaaag gggtaagtc 1479

<210> 2902
 <211> 1795
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2902

```

agcacgtgac tcgggactct ggagaaggca tgatgagtaa tcgagaagat gatgatgatt   60
tgtcaaccct aggctagccc taacattcac aaaccggga agcgaaatca gccatctccc  120
gcggaggaaa agatgtcttg tctatcgcgt cagtctcttc ttcgacctca acatcgggac  180
aagcgccaga cgattgatat atacaaatcg ccgtactttg cactatcaat cgaccatcat  240
ggcccccttc caacttcttg ccatattcaa cccactcct caggacattg agatgctcct  300
cgcagctcaa tgccacttgg gatccaagaa cctccagggt cacatggaac cctacctggg  360
gaagactcgc cctgacggtg tcaacgttat caacgatggc aagacctgat acgttatttg  420
gaggaattga gggttttata ttcgcgaagt gtgcgggttc taactcgtgc acgaaaacag  480
ggagaagatc ctcttgcccg cccgtatcat cgccggcatc gacaaccctg ccgacatctg  540
tgtcatctct gctcgtcctt acggtcagcg tgctgttctg aagtttgcct cccacaccgg  600
agccaccgcc attgctggtc gtatcacccc cggtgacttc accaactaca tcaccgcgtc  660
ttttaaggag ccccgctca tcgtcgtcac cgaccgcgc accgatgccc aagccatcaa  720
ggaggccagc tatgtcaaca ttcccgatc tgctctctgc gacctgact cccccaaccg  780
cttcgatgat gttgctattc ctaccaaaaa caaggctcgc acgccatcgt ctgatctgtg  840
gctacttgcc cgtgagggtc tccgtctccg tgtaccctcg ccaaccgtga ggttgactgg  900
gacgtcgttg ttgaccttta cttctaccgc gaccctgagg ctgaggagaa caaggagggt  960
gctgaggaga aggttgccag cgctgaggat gtcggtgccg gtgccatcga gtctgcgttc 1020
gctgctgaga gctgggatgc tcagggtgct gctgcccctg ctgctttcgc ggctgccggg 1080
gctaccagct gggaggctga cgggtgtgac tgggctgccg gctctgtccc gccctgggtg 1140
gtgagaactg ggctgaggct cagcctgccg aggggtgcaa gtggtaaaaa gctgcttttc 1200
aaccgggcta tatcgggaca gttgttgga gagtgtgaag agaaggaaaa tcaaataat 1260
tcccctggca tgtcaatcct agcctctgtt ccgcaaatac taaaaagga aaaagaaaa 1320
acggcaaaag aattacaccc gaaaccaacg tctttttctt ccaccaatg gtatgctgtc 1380
acgaatcatc ctctcagagt tcagtcgct ttacgtcttg tttcatgggg aggaattgct 1440

```

tgttcaatga ttgactcggg acttgatgag ggaaagatac ccagttgttc tcatatcagt 1500
 gagcttctgg gggaaagccc tgtgccgtca atccacaagg tggacttgat cgttaccttg 1560
 gtttctccct gtatgttata cgtaaatgaa agtgatgaaa gctaccattc gtatattcta 1620
 aaactgcata gcaaaccgta agagtagtaa gagcacacgg gcgtaggcgc ttcatatatg 1680
 tatacaagca gtccaatggg tatcaatgat caaaattctt gcatacacct tatccactca 1740
 cataacgagg cacctccctc cgtttgcgg cagcagcagt agtagtctgg taggc 1795

<210> 2903
 <211> 2100
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2903

gaatgatgcc tactcatatc aactcccggg tgccgttcgc cagtgcctc aaggatgatg 60
 gcgaggacct cccgggaggt catgaaaagg gcttctcggc tgggtgttgt tcgcttgacg 120
 accattctct gaaccaagaa tagagtatac agataatcga ggtagatgtg gcgtctcgcg 180
 aaggtgatat taggcgattc tccattcggg atgtactggt catgtcgtag gtaaacagga 240
 catgactgcc attggttctg ggcggtttgg ataagctcac tacagagagt cagtcggtac 300
 cacagcgggg ttggagctag agcctactca cttatacttg ctcaaaatcg tcttgtcatc 360
 ataattcccc agcgcaatct caagcgctg ctctctcagc actgccaaat ggaaccgtaa 420
 acgcaacagg cttccccgca gcgtgttgcc tttcgtattc caccctgagg agtcgagatt 480
 agccattgcc cgctgagct gctcctcgcc agcaatcagg tcttcacctc taatgtccag 540
 cggcggtgaa atagagcagt accgataatt aataaatggc ggcctcccaa cgaacgtaga 600
 aagagacttg tctgcgtaga atgcagcagc gaacgacatt ttccgccact gatgcaggaa 660
 tggaggacag ttttgtgcgc gtgtgcttct ctgatgcaga ccggtgcat atatggtcgc 720
 tgtgagattg ccaagtttgc gccaggcggc gtagcatata ctgtcgttag tggcaatggt 780
 tgtgtcatga gagcagggcg tactcgtatc ccataatac tgcgtacgca atagcatatc 840
 gttgtactga tagaagccca gaagttcatt aaccgacgcc gctgttgcaac agaacaaaag 900
 acacgtcctg cttgcctcga ccaagcgtga acggagcatc tccgcgccct gtgcgtcagg 960
 cgccaccgcg agaacatcgg ggtcgtcatc tgaggtggac atcattgcga tcccggccgt 1020

cgcaaaaaca agaccaacta cctcccagcg caggttctcg tctgtaaacg aggcaaaata 1080
 ctcttcgacc gtcattggacg catgcgaggt cagtggatga gccgaggact ggaatatgcg 1140
 ctgcaccaga tcgcggaagt gcttttcgac gtctttctca cggatcaatgg cgtcgaagat 1200
 ccgtcgaagg gatattgataa tcgctcttat gatgaggttt gagacaacgg ccatcaagt 1260
 gccagcgtag aacttgcgaa tcaggatctc ccatatgttg ttccggtaga gaaacttgat 1320
 gacttcgagg ccggactcaa gacggtaacc gtccgttaat ttggatagta ccccgctctg 1380
 ggcatgggta cctcctcaa aggatattgt tgccgggtgt tcgctgaaga cggcggaaaa 1440
 gctgggtcgag cctagatacc caggtgttgt ggaggggccc tggctcgcg ctgcaaggcg 1500
 aagtcgtac tgcaccgtag atgcagatgc agatgcagat gcagtaccg acgcagatgt 1560
 tgggttcaggg cttggcgtag tatttaaata agttcttttg ccttctgctt cctccactaa 1620
 gctgggtgaac gtacagtga gattccgtcc ttggcctctt gccaggacga taagatggag 1680
 gctgcgatgc atccttggtc ataggcgag gatgataaaa gcattctctgc gtaatgtttt 1740
 tcgcaatata tcgtccacaa actggccgct catgggtcaca ttaagcttt gatttgcgac 1800
 aaggctcgca agattggagc aggcattgc gacggattgc cgggtgtgag tcagtcattc 1860
 tcaaacgcgg gatattacca cgggggctat aaagtggacg attcgatcac atataaaacc 1920
 atctcgtctt catattccat actgaacctt aagggcgctt agtttgcagg cgaaggcggc 1980
 aagaggggcc ccagtgggaa acgcaggtgt cgaccagaga agacatctc atactaatca 2040
 atatccagca cctcgtcgt ccaatcatc gaggcgatca cgccgcctag cggaattgca 2100

<210> 2904
 <211> 3532
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2904

agggctgaat taatctacc tatcactatc taattatgta ccagactcat gtttgtacag 60
 tccaccaggg cgcaccaagc attgctaga ttccatcaat gtccttgccc tggaggtaag 120
 caagttgaga tggatgaaac aaatccatgc atacaaaaca ccagacgccg ataccaatca 180
 ttaacaatga aggaaaatat ttagggaatt gggtatctcg tagaattctt gcccgtaaac 240
 ggtggcatat gtccgcctcc tccgatggcg gccgaagggt caaagtcggg attattctcg 300

agtaggacgt cgcgcttctg ttgaacagct tgtgccggca tagggggcgg acgccaccta 360
 ggggttgatt ggccgctccg atattgacgt gaaatggctt acttcgctag cagcaggtga 420
 gcccggaagt tccgccccat tttccttcaa tttttgtca ccagaattgc ctggcgctcaa 480
 gacagagggg actcctgagt taccaactgc cgactcgttc cgactcgtgt acaccgggtc 540
 ctcatcttcg taatacatac tacctgactg ggaacgggca tgccgtgggt gattaggttg 600
 atatggcaag tttggctcgc tcgattggtg tgcttgcggt cccaatttc tacggggggg 660
 cacatatgac ctgggtgaag cgattagtta gctatttttt gagaaacaga gaggttgaac 720
 agccatactg tgtgccggcta taaaggctcg tggggctaac aggctcgtgc tgattatcaa 780
 tggaaatggc atggagttgt tgctgctcag gtacttcac ctagcatcc ggctcatgtc 840
 gcggctgcgg catcatttca atagcttggc cagctgggcc cggagctgct ggcgccgcca 900
 ttggccccgg agtacgctgg cgtgacgaag gtccacgata tccgtactca tcttcaccca 960
 ttgcgcgtgc gttaccatat ccgcccgtg ccggttgccg ccggtatcct ccacgtgcc 1020
 tcggtcctgc aggtccgccg cgcattgggc ccatataacc accccgcccg gtgagaggag 1080
 cacgagaatt gggcccgta ggcgtccgta aggtccgcc caccatata ctcgcgagg 1140
 tggatacccg ccacggccac gtggagcaaa tctgtaggg ggcctcttc gcgggtccga 1200
 atattggtcg cgcactctgg agtcaggagg tgggggtcca ggaggtccag gcgtacgcat 1260
 tctaggagcg gagttgtagg ctctggtgg taacgggttc ccgaaatcat ctcgaggggc 1320
 gttataagga actggatctc caggaatccg cgactgatac ccagcgtctt gggcgctcgg 1380
 atcgtgtgg ttatttagag gtgtacgac gtcgtcactt gaacgcgtgt ttgtgcgaaa 1440
 ggtggcgaa gtagggcccg actctgagct ttgagttgca gcgacgaagg tttctttggc 1500
 ttcaggcgcg attggcttgc tctcattcaa tgcagccgca gcggcgttct gacgattata 1560
 gtagttctgc cactcattt cggcattttc cgcgatgcgc ctcttgcgag ccttgcgact 1620
 gaccagagtc cggcgcatgg cacaagtgc aacaccgcaa gtgaccagga taatagtcgc 1680
 ggcgagaact atccagccac cccatgacaa atgcggcaca aagagcagta tatcgaccag 1740
 gaaagcaagc aacgagacga gaagagtcgg aaggagcaag atcaacaagg ccagtaagta 1800
 gcgaggcgaa tgcgacggag cgtgcagatg agccgcagca gcgagacaaa ggcagatcaa 1860
 agtgagaaaa gcagcgatcg ggtggacgat aaggatagaa gaaagtgatc tccgcgcgtc 1920

ggacgggagg ttaaagtcgc tgtccgtact tccagtgttt tcgatttcct ctgcgctaag 1980
 attagcgacc tcagacctga ggggtaaacg caacaaacct gtggtatagc cgatgtggat 2040
 cgcggtgcaa gtgccagctt tgcaataacc gaagacccca tattcgacat tgtcaaaaagt 2100
 tgccaacgga atactcttaa caataggagt cgatatcacg gagagaagaa ggaggacaaa 2160
 ggcgatcagg agaaggatgg tcaatggggt tgccggtttg agcaacattg cgaccacaag 2220
 acaaccgccc gtcggacaga gtgtagggaa acgaacgtca ggtactgccc ccagacagca 2280
 gctcgcccaa gcggaataat aaactctaaa agtatagcat tgagcgtagc attgattgca 2340
 gcagcgcttc tcctggaaga aactgtgggt gaaaggaggt aagagggcga aagagagcca 2400
 ggagggaggg cggcagtacg gagtagcggc aataaggcag aagcgaagag ctcttgtcca 2460
 gacaagagaa gataagaaaa gagaaaaaag agcctgaaat gaatggagag aatagtgtac 2520
 taaggtagta gtaactggct agcgacgatg gtaaatgggt gaataaggta taagcatgac 2580
 ggcggcttga ttgattgctt aaggatggcg tcggcaagtt ggaggaaaga ctgaatagtt 2640
 aagaggcggg tcttagtcat cgactgtctc aatttccatg atatgccac ttcctttctt 2700
 ctactattgt gggatctaca gccaaaattc acttgacaac aagaacatct tcagaatggt 2760
 tggtagaccg tgacctgcgt ctacataaag acgctagaat tcttcctcga gtaggcgtcg 2820
 cttcctcctg tgggtggctga gccagatta gaacaagcga taccttttta atgcatccac 2880
 tactcacaga cttcaccatg attcgctgtc cgctaaggag gagagcacga gtttaccagg 2940
 tcgagttcca ccaactgctt cggagactgt cgctgtgcgt accagctcgc tgcagaagaa 3000
 aacatcacga aaggtagagc cttgctgcat ccagactcag tcagctgatt cacatgctgt 3060
 gacacagtga atgttccctt ggatatcgtg tcggccagcg cgctaagagg tggctgcttt 3120
 tgccggcaaag acgcttgacc caagaccata cccgagtaag atcagctata cgataattac 3180
 gatcgggtct ttaaccggtc ctgtggaaat taatgacgcg acgcttttct ccacgacgga 3240
 aaccggccag cttcctgca atcaatcttg agagactgaa acaaatcaaa tggatggact 3300
 tcgtcgtgat acgcgaagat acccttgggt ttgctccttt tcctactat taaacaagt 3360
 ctgatttgag aaaatggaac gtggagctca cactttaatg ccctatcctg tttcactacc 3420
 ttctcttttg ccctaccccc tttctaaaag gttctgaact tcaacttgct cctcccttat 3480
 atcttttatt gcattttatc cctgtgctta ttttcagtta tacgcttttc ct 3532

<210> 2905
 <211> 1356
 <212> DNA
 <213> Aspergillus nidulans

<400> 2905

```
tgtgtgattc aggcaactag ttgcgaatca atgcgcctat ccatgggtct tgctgtagta 60
tggtgcgggg catagagctt cgtcatccga ttccagagct ttgtacgcaa tataagaata 120
tcttggttct gtcaacatgc atcggtcgct cgatacagaa taatcaaag accgcataaa 180
tgtcatgcaa gcgtagtgcg tcatacatct aatattttga tgtaggttgt gagactgatt 240
aatatcacga tttcatcata atgcgccggg gtcattgaag atccatgcta cagcaaccac 300
ttcagaatcc aggaattggg ttatgagaag tgtgtagaat tctctaacgc aacggcccat 360
gctggagaaa gaggtaaacc agtatgcgaa gaatgcata caaacaagag taaagtgggt 420
gaagcctgca actgcctcaa ggtccgatgg gttccaccgg agataccgca ccggaaggat 480
agggcatctt acgaccatga acatggggcc tggaaatctc aggggcaagg atggattttt 540
gaatgcagga tcgatccgtc cccaatggga gtcaaataa ccctagctgc aactgggtgt 600
cgcgcgctctg actcactcat gtcgatcaaa gaaagatata gtgactattc aagcccttct 660
acttcatcat cgttgccggac cgaacagggtg aactttgcct ctcaagaaga ggggtctcgta 720
tagaatcgat ttttaagcgt ggactttgag attatcgtec cctcttcctc attggagact 780
ttcacgcagc gtctcttcag cctctcttca ttcgatacac ccgacattat gatcattttg 840
acaaggttct cgactaccga aagttgttac ccagttcca tgcgctgtag ggatcatttg 900
gtacgagatt gaaaagcact tggcatttag attagcacat ttaccagaca aaatgagcag 960
cacacgaatc cagaagccga aggatatatt ctactttct ccaaaagcac ctagtgtttc 1020
atccatatag gagtcgatct gatgatagca gctattgtcg ggtataccaa gccctgggtt 1080
gaggttgcct cttcatgca tgggctcgat atagaggta cccgcgggca cggccgcat 1140
cggaaatgaa acgtcaactg ccggttggtc ctgagttggg ttggctggtg gcggattgaa 1200
gtgacccttg aatgttgaag aactgcatgg ctctgtcggc ggcagccgcg gtgaatgaga 1260
aggcgaggcg tgttgcgacg gtccctgttc ctgctctctg gggtttgtgt cgctaccaga 1320
ttcattacta tttagagcat tttccaactc ctgatg 1356
```

<210> 2906
 <211> 882
 <212> DNA
 <213> Aspergillus nidulans

<400> 2906

```
gcagttcaaa tgttccgtct gcatgtgtac aagactcgct actatgtcgg caccggactg   60
gtttcgggtgg taggaacttc gttcgcaacg attacagttg caaccgggac gtttaatcag  120
atgtactcaa ctggatactg tccagtcgat ggctcaggaa acaggctgcc ctgtccgaaa  180
ggttatgggg cactcctagc cacctcctgc ctttgctcgc ttctcgaaat cgggctttcc  240
ttcatgagca gcaggctgct caaagctctc ttcccgccaa tcgtcactgg cccaactgtc  300
ttcctgattg gtgcgagtct aatcggcaac gcaatgaaag actgggccgg cggttctgga  360
acctgcagca gcaatccggg caatggcgct ctttgcccca gcgccgatgc accacacccc  420
ctgccttggg gcagcgccga gttcatcggc cttggcttcc tcgttttcgc caccatcatc  480
ctctgcgagc gcttcgggtc cccaatcatg aaatcctgcg ctgtcattgt cggcctgctg  540
gtcgggtgca tcgtcgccgc ggctgtggc tacttcgacc gtcgccgatc tgacgcgcc  600
cccgtcgcat cttcatctg ggtgaaaacg tttccgttaa caatctacgc cccactcatt  660
ctccccctcc tcgcggtgta tatggtcac atgatggaat ccatcggcga catcacggcc  720
acctgcgatg tttcccgctc ccaagtagag ggtgctactt ttgactctcg cattcagggt  780
ggcgtcctgg gaaacggcat aacatgtctt ctgcgcggtc tctgcaccat taccocgatg  840
tcagtatttg ctcagaacaa cggcgttatc gcctcaccgc ct                               882
```

<210> 2907
 <211> 1251
 <212> DNA
 <213> Aspergillus nidulans

<400> 2907

```
cttatatata caccactctg cggtacagta tgtgtatcca tatccttgtc cattcatctt   60
ttttctgagg aatttgtaga ctcggtacaa aggttcttgc tgcatttcac caatggctgt  120
tagatcgctg ggcacctgtt ctgcgtgagg ttcatcatcg tcgaaaaagt cattattgtc  180
catgggttca tcatcatcat aatcaactgg ctcaacatca tcattgggac catcttcac  240
```

tatgaagtca ttgtcatcat cacgtttttac aaagctgaac gcacgacggt ggatagctgg 300
 agggatcact ggggggactc tccgatggga tatctggctc tcggtaggca acgcagacac 360
 tgcgactggt gggaccttga cgcagtcaag cgtcgaaaga gtcattccacc ctccatgtcc 420
 ataagaacat gcacttccac aagtgcctgg catacacagt tcaagcgaag tcggcggtgt 480
 ggtgacagtg gttgtagtcg cagtaaccga gcatccactg gtcgtaatgg tggtcgttgg 540
 atagcaggcc gttgttgagg ttgttgagtc accaaaagtg accgggggtcg gctcacagag 600
 gacagtgaca tgggtatacgg ttcccttcaga agtacaagat gtcgtcgtgg tgggtctgca 660
 ggttgacgtg cttagagttc cattatcttc gtcactctca tcatcagtggt catcgctatc 720
 atcctcgga ttgttcccat tgtctttatc accaaagtgc tcattagaat ggtgttcgtt 780
 gcgacctca ttgtggttat catcgctcatt gttatcaggg ccgggagggt tgctagttgg 840
 atcaaggaca ggagtatctg ctatatcttc gggtgcaatc aaatcgtgca tcatcttctt 900
 gacaccgtcg atatcttgtc tctcaattgc atccttgagg tggcttgta tctttccgat 960
 acagcccaat tgcctcaaaa gtttgccagc gacgtcgcca gcagcaccgc caatgtcctt 1020
 ggctatatat agcgtccgt caataagacc tcgttttctt agtgagtcgc agctgggagg 1080
 cagctcccca cctaggactt tgatgaagtg ctcaatatca tcttctacac catcgattcc 1140
 cttgacggcc tgggtttgga gagaaggact cggcttttcg acccaggcgt cgatgatcgg 1200
 taagacggac gcaaagtcac cggtatgcc agacatgctg gaagcgagta c 1251

<210> 2908
 <211> 1458
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2908

cgacctagaa gaatgtatat gtccgccacc atcctggcgg ccatactat gattatgccg 60
 atgtacaaca gcaatatgga gggataacg atccatatgg cgccaacca gtgattcggg 120
 atgttcaagc tcgccgaac acacagattc aaaatccatc tgtatttccc cgacaaggaa 180
 acgctgggat cgcgcaaaat ttctaggaga aaatggattg accatttttt ctttcttata 240
 tatacttact cttactaaag gatcatatat caactcttgt tcgcccagca cggttgccac 300
 taatggagtt gtgagggggg tttagcgcag cactgagccc taagccttca tattactgtt 360

atcaacaggc cagagtcgat tattcattca tctacacgga actcgccgag ttcttttttt 420
 tttttttttt tttcgctttc ttttttgtga taccaatttc actgccatct tcgccgatta 480
 tctttccctt atttgttccc tcgctatctt ggtcttctct tcttttttgg tgtacattta 540
 cgactgctcc ttatcatgtg agggacctct ttagttctgg tttgtcttca atatctcttc 600
 tatacctgaa cagacattct acttcaccta ctctccatct ttctttgtct ggatgtcctg 660
 cttttttttt tttcttgggtg ggcatttgct cctctcagag aaggcaagga gtgtgtaaag 720
 ctctatactt agctagggat ccataatgat aaactcaaac tcatagcgaa accaagaagc 780
 agacttcgta gcattcgata ggtttaatga tacggcgtct ctgtaatcac attgctgcct 840
 gtggagtcac gtaaggagcg cgaagaccgg acagcctatc agtggtcggg cttctagatg 900
 aggctacaag aagatcaggg cttgtaaccg ttagcatcaa tctcaggcga ccttaaccac 960
 ctttcgaaga tcttgccggag ctaataaata ctgctcttgt gtagggatcc cggccagtga 1020
 catcatccga attgagtcga atcgcacctg tgtagtacca agtgcctgct taacctgaga 1080
 aagatgataa gccaaagcatt cagtaatacg ttaggcttgt tcgagcagtg cacgttgtga 1140
 ttgacgcggc tttggttggg ttgttctcca gggcttgag ctttagcgtg accgtggggc 1200
 aggaaacgtg ggtttgtttg cagcgttgat tgggcgggaa ccagctcccc cagagctctc 1260
 caccttcagc tcgccccttc atcttttgac atgaacacat tactctcagc gactgtgtct 1320
 aacctctct acgctcgtgt caaatctact tgctgttgat ctctagtcg ctttccatat 1380
 aggtatgtcg ttgaggggtg tgatccatgg ctcccgccgt gagccggcct ttgtcgacta 1440
 tgaaatgtcc gctgacgc 1458

<210> 2909
 <211> 1648
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2909

gagcgacgaa atcgatcttc aatgacgagt tcaggacctg cacacgctgg gtgctcggca 60
 gtgaattctc tggtaaagag gaagtaaagt tccactcgtc atcgctcgtt gtcttaggct 120
 tctgctcggc agctccagcg agatcaagga gggaagacga tcggggaggc cgagggcttg 180
 cagagctgga agggagcggg ctgttggttc gagggctagc ggatactaaa gacgcaaagt 240

ggtccactgc agggggtggg gttgcagtaa ctggaggttg atgaaatgca ggagcgggtg 300
 tcgacgagaa cgacgcaggt tggctagaat ttaacgaacc gaggatatca taatttgctt 360
 ggaatgcgct aggattctgg ggtatttggg gcgccggaga gctcgcttca cgaatgtag 420
 taaacaactt gtgcaaagga cagaaaaaca tactctggcc taacgagatt ccaccggacg 480
 gaacaggctc gtcgattgat agtccaagca agtcattctc gatagagcta gaccctgtg 540
 ccggctgtcc tgcgccgttg gaactaggct ctgggtcgaa atcgatcaga gacagctcgt 600
 tgttggcatt cttagaaacc cctgtagtag tgcccaacgt gcccttggga atcctcgctg 660
 cagcgtcgaa atcaccactc ttcacgagct tataccgctg gattgtgcgg tgtatgctgt 720
 cattgatctc caacagtttg cgcacagctt ctgggtcatc cgactcctct tcacacatct 780
 tctggatctt gggatgcgca ctctgaaggg cattcgcaag ttctgcggc tttgttagaa 840
 gactttctca ttacggtgga ttcttcatcc taccttaaac acatcgccct ccgcgatccg 900
 atcacccggc gcttggctct gcagcatttc ttccaaaatc ttggctttct cctgaacttt 960
 ggccacctcc tctgccgct tagcccggta gtcggtctta tgccgggtgt cgtatcccg 1020
 cataaccttc atcaaccggt ttgttctctg tagatctgcc ggcgttctc tccgaatcag 1080
 ctctgcagc ttgcgcgact gcgttctctg ctctctctcc tccatctcct cagccgaacg 1140
 cagattctgc aaccaggctc aacacagttc tgacatgcat ccgtaggcca acatacatcg 1200
 ctagggttca aaacagccgc atcctcgcg cgaatttccg gaaatacata gcctttgtac 1260
 agtagtaacc ggtgcatatc acggatatgc ccagatcat ctttataccg cgatgtctga 1320
 cagattgtct gctccactc ttcaattgac tcgagaatgc gatgctggac cctcgtgggc 1380
 cgcagaggcc ggcacgggg aagcgacgga ccaactcatt tagaaattcc ttcgtgctga 1440
 tctgaagatg gaacgggtat ccgcagtttt tgacacagat gtccagaagc taccggaatc 1500
 gatctcgtea gcaatgcgcc attctcgcat agtcacggag ctctgtctta ccgccaatgc 1560
 tagtaacgag acattttggt tccgggaatt gatcaggcgg acaatttcga atgctgcttc 1620
 tcgaggacta tttcatccaa gcagtcag 1648

<210> 2910
 <211> 1470
 <212> DNA
 <213> Aspergillus nidulans

<400> 2910

atcatagcag gtcatacccc tctctcccct ctcttcgcc ctaaccctc cgtttataac 60
ggcctggcac gtcaaacgat ctgctgctgg ctctcagcat accctgacga cgtagaattg 120
aacacaatgg caggctacca tctcccagtc gacctcaagc agttcaagaa gctgcagctg 180
gatcccaaca gcaagaagct gtccgaccag cagaaaaaag atctcctaca caacattggc 240
atcttcgcgc atgccatcgt cgccttcaca gccaccggtg ctgcccgtgg ccaggcaggc 300
cacacggggc gtcccttcga cacggccccc gaagtctgta tcttgctagg ctttatcaat 360
gccaatccgg atgccttcta tgatgctatt ttgacgagg cggggccaccg cgtcgcgacg 420
cagtacctgc ttgctgccat cgacggtaag atcgagcccg atcacctact caactaccga 480
gatgccaaact cgaagctccc cggccatccg gagctggggc tgacccccgg cgtaagttt 540
agctccggtc ggctggggcca tatgtggccg ctgggtcaacg gtattgccat ggcccacaag 600
gacaagaagg tatttatgct gggctctgac agctcgacgc acgaaggtaa cgatgctgag 660
gctgcgcgta ttggccgttg ccaacaacct caatgtcaag ctgttcctcg acaacaacga 720
cgtcaccatt gctgggcacc cgtcagtgtg ccagaagga taccgagctcg agcggacact 780
cactggccac ggcatgaagg tcgttcgtgc ccagggtgag gatattgact cgttgtaaa 840
cgccatggtc gaggtcgtca gtacagacgg cccggccgct gtggtcgtgg accgcaagat 900
ggcgcccggc attgaaggaa ttgaaggaca gactaaggcg caccgatgtc tgccctgtgga 960
tattgcccgc aagtacctca ccaagcgtgg ctactcgcaa gagtcgctcg ctttctacga 1020
ccagatcaag gccacctcca acacgcacca gtacctgggc tctactaaag agaagggcgg 1080
caaccgcgtg atctttgggtg aggccgtcaa ctctgtcctg gacggggtca gcaaggaaga 1140
agcggcccg cgcgtcatgg tcatcgactc tgacctgag ggctctaccg gtctcaaggc 1200
tattcaccag gccaccccg aggtctacgt atcatcaggc gttatggagc gcggcaactt 1260
ctccgcagct gctggtttcg gcttcggtag tgacggctcg cgccagggtg tcttctcgac 1320
cttctgcgcg ttcatlgaga tgctgatctc tgagatcacc atggccagac tgaacggatg 1380
cagcgtctc tcgcaattct cacatagtgg tgcgacgaa atcgccgaca acacctgcca 1440
tttcggcctc aacgccttct ttgccgataa 1470

<210> 2911
 <211> 1388
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2911

```
taaatggctg ctatagtcct gctggtctc gggccatgga gatcctactt cagtacgcgc   60
acctccagga cgcacggcag ctcateccag tgtcccgcgc gcacatcgac gcctgcattt  120
acaccggtcc ggcgagtata ctcatcgccg ataggtttct ttcccaaggc gctcacgttg  180
ctatcccaac gacgctgaac tcgattttctg tcgaccagcg ccgatggcgt gaagttggcg  240
ttgacaagaa cttggcgagc gacgcaaccg cctggcgaat gcatacgttg ccatgggtgc  300
agagagcaca tttacctgcy ctcggtacct tttagactct ccaccagggtg ccggcgacac  360
aatcgggtgg gcggagtcaa tgctgtggtg ttcggaaca gtgtccttgg tgcacgcacg  420
caaaagtacc ctgacctgat tgacgtctgt atcgactta ccggtagggc gccgctggct  480
ggagtccaga ttacagagga acgcgtccg agactctgca tcgatgtgac tgtgcaaaag  540
cacgaggcac tggaggatgt attttaccg ctgcttgggt acgcggtagg aacagtggtc  600
gcgggaaata tccccctaat cactggactg gagtcgacga atccgactag gtctgacctg  660
aaagctttca gtgcagcctt tgcgaccacg gcttctgcgc ccatgttcca catctctggc  720
atcacacctg aagcaaagca gttcgatcta gctgggctta agcgatttcc actcgccgac  780
gataacctgc tctccgctct caacggcctt atcactgccg cagacgactc cgtcggcctt  840
gtctcactcg gaaacccgca cttttctctt gaagagtttg ctcgtttcag tgaactgtgt  900
actggccgcc gtaaggcgga ttcagtccag gtgatcatca ccaccaaccg acagatttac  960
gtcaggcgt gcgctgcggg acatgttggg gcaatcgaga ctttcggggc ccaaatactc 1020
acagatacct gctggtgcat gatgtcagag tcagtgatgg actcttctgt ggtgaacctc 1080
atgaccaatt cggccaagta cgcgcattat gcgcgggaa tagtccgccg gggggttcat 1140
tttgggacat taaaagactg catcgccgcy gcggagacag ggagagcaaa gtctggccta 1200
aattactggc tgtcagctgt taaatcagcy tgatgttgag tctgctctcg atgccatcat 1260
ctccttcaaa ggtcccgtgt gttcgaggat ttatttgcta cagatgtgcc tcccgcaacg 1320
tagtcttggc agagctgttc tacatttggg cattttcaaa tcgccattct ccaaggggct 1380
ttgattaa
```

1388

<210> 2912
 <211> 535
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2912

gctcgagcat gcactcttta actccagatt cagcacatgc tgcacctggt gcggtagttc 60
 tgcaaactctg ttcttccacg aacgactccg gaatggatga aaggtccaac atggcagaga 120
 gtacggcgct cctagagaac cacacagagc tgctgggtcag aggtgagcga acgcacggcg 180
 ttgagacaag ttgaagcagt gaagacgcaa tagtttagcga aagggctatc cgatgggttcg 240
 gtagccatga cgcgtccggt tctttcagca gctgctccag ggtcacaaac ccgtccgaat 300
 ccgcccgcgag gtgcattgaa ttgctgtgga cggaggcctg tgggtaatag tacatcaggc 360
 gggttccctc cgagacctgc aagcagaatg ccgcccttcc atctctggcg cgccgtataa 420
 actcgcacag gtcattccatc gcggttaaggc ggggttcggc ttttggttggg ggagtgggtt 480
 gttgaatgac taccttgctg tacgccgttc tctgcgtaat cctagtggaa gaatt 535

<210> 2913
 <211> 2102
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2913

ttttccgaga tctcaatacc gaagatgggg caacaagcag agtgcagctt caacggcgctc 60
 gagctccaag tccgccactg atcttagtta taaatcaagc tcaaaacgag atgttgaggg 120
 cattggggcgg ccgtggctgg agcaccgct tgaaaaaagg gatgagcctg gctcgaaggg 180
 aagtagtcaa gtgtcgtcgc tggatctccg tgatctcgca tcgtttgttg aagcggctgt 240
 gaatttctct caggcagacg ataccgatcc cctccatac caacccttga cagagcagtg 300
 cgcgacgcca actgtgacct caggaccag cactgagcgg atgccacggt ccgatgcact 360
 atctgattcc gccgtctcgg ccggcgaacc gggcatagag aattcagtac gcaaggtcac 420
 caatgaacta cctattgcct caagcttcca ccgatctgtc cagccattga tgtcgagcga 480
 gagattgagc gtaagtatat tctatttttg tagaacctg ctggccgggg gatgcgggtg 540
 gacaaccagc atgaaacca aaacctggag tcaaaactga agcgtaatgg agcagtctcc 600

acgaagccgc cttaatctag ctcttcaact agctccaaga gtgcctcagc accgacgacg 660
 ccggttctga aacttttccc tgacgccatc tctccccgta cttcgagtaa gcaggccctg 720
 cgtatctcta ccggcagatc ttggacgccg aagcagtcctc ttcctcgggt ccctgcctcc 780
 caaagtaccc caacgttgcc ttcggttttc gagtcaaagc atcgcgagtt tcgaacttca 840
 tccaacagct tacccaagat tcaagaacat gtttcggatg cgcattggtac aaagcagtcct 900
 gggttcacgtg cgccggaacg accttcagca aattctagag agaggctcga accgcaagat 960
 tcacagacca agcatgctcg tcgtccatcg tctctgccgc cgggcgctat cgatgccttt 1020
 cctatccccg caccagccaa acctttgcct acagtgcctg aaccaaacac tcgaattgac 1080
 gatgtcaaca agaagacgtt tctgaatcaa cagacaactc agcttattaa tatgagaccg 1140
 catattgcag agcttccagg aagtatgcct cctggcatta gtatttcac ccttagcagt 1200
 cctgaggata ataacagtgc ttgcgctggc cgtgattctc cgtttcccag actcttgggc 1260
 tccatggacc cagcgacaac cgattttaca accgaaggac ccccggtacc tatccaacct 1320
 cggcgccggt cactaggcaa agctggacga agcccggaag ccaaggtccg ttcgttgata 1380
 atgaaagacc tcgctagaag tcgtcatttg aagagcccaa gtaaggggtca aatcattgac 1440
 ttacagaagg aggaacaagc atcccaacct cgcgagagtg aggattctgg ttcaggagct 1500
 caagggcgat atcgaaaagt ggtctctccc gggccttctc cgccgcctcc cacgtctcct 1560
 ccaccacaag acccaccgag acatactctc cagggtcgtc aatactgtac gcctccggca 1620
 ggtgcgatgg cggcaaattg agaattatga aaacctatca aactccactg ccagcagaaa 1680
 gcaccaatta tatcggaaga atagcgtacg gaacttcgag atgaagccag agaagaaatc 1740
 catgaaacaa aaatccccgt gtgaagaaga aacacccctt ccatcctcgg acgatgaagg 1800
 gccggtgggg gacttatact ggaaccacc tcgtaagacc accagaagac accgaagagg 1860
 gaggccggaa cctatcattg tcgataagcc tgtgccggaa cgagggcgat cggtaagaa 1920
 aacttaact acaaacagca tgagtccagc aacgctacag aactacagca gacgtagtat 1980
 tgggaagacc cccagacgc atctcacttc gcgtgatcac cacacttatg atctccgtag 2040
 ccgccactca ccggagtcca agcctaattc tacacttgaa gggcgtattg agcatcttga 2100
 gc 2102

<210> 2914
 <211> 848
 <212> DNA
 <213> Aspergillus nidulans

<400> 2914

```

gttgcgtgcac gtagatttag tttatactca acttcaagtg ccgaaaagac ataccattgc   60
actctccagg tctcttgtcc acctcgccgc ctccgagaca tcacctacga gcagactgat  120
cctacccgat aattcgacca gcgtaccagg tgagatttcg cttcggtcct gtgcttgatc  180
ttcttctggg gttctagttg cgacttcaact atcttgttcc ttttctgtct cgcttggtcg  240
acgttggggag gaggctgtgg gacactccag ctgcgccgct gcacgcgcaa gacgctcata  300
agaccgtccg acgaggataa tacggtcaac gccctctctg agaaagcgct ccgcgattgc  360
gaagccaatt ccagagctcc cacctgtaat catgcatggt cggccggtga gtctgttaga  420
tgggcggaat gaggtgctgc cgttgatttc tggatcatac gaggtgaaat gacggggttg  480
gagaacgggt atcctgaaac cgggctttgc acggaaatgg atatgctga agaggggaacg  540
gactggagag attgtgaccc cgcgtagggg gagattggag atgcaatgca ttgattgggt  600
tagatagcct ttggagattg cttaaggtaa tggaaatata gaaaagtgat gttgtcgtag  660
tagctttgtc ctcatgagag tcatatagcg cactaatcag gttaaaattg gagctaccgc  720
ctaatagtaa gtgacatacc tgccaagtga aagttaacag ctttcttaca tttcatcaat  780
agtgtatgtc atctcgtgag tcgatcactg ttatcgcggc aggcctgcgg aaagcttaga  840
caggccccg                                     848
  
```

<210> 2915
 <211> 1295
 <212> DNA
 <213> Aspergillus nidulans

<400> 2915

```

cagttatata agagacaagg tgacgaactg ataacgtact gacctctcag acctggtgcc   60
aatcttcac cgcgagagacc aactaatgga cgtcgtgcct gacctggaaa tgacttgctg  120
aaacatgtat cacccttct cggggtttcg actccgtctt gggattgata tagtgacaat  180
tggtcgccaa tgtcagatta gcccaagcta cgtctaaaca ccttactgga gttcaggtaa  240
tggcggcggtg tgatggggcc gtaattctat aggtgcattg catatgcact atacgtagag  300
  
```

ggatgagggg aagcgtagtc atgtcctcat ccaatagtcc tattgaggta caccgcgtaa 360
 cgacatgata attctccgca gccaacaggc tggcgcta at ggtcggtgcc tggactcact 420
 ttgtttgaac ctgcatacga atactctgta tccaatccag ggtagaggg tccgtgggac 480
 ggtgggaagt tggctattac gtgcattact gggtatgtct tgccttccat tgcttatctt 540
 actaggctgg aatgattcag tgttttgagg atgaagtacg aatctagacc tccccagaat 600
 aacgatactt taaaccata gtatgggttg ttttctgga ccaccaaatt agctctttca 660
 tactgtttcc tcatcgatcc gatcttaggc gattgtacag attcagtgtg cctggcggtt 720
 gttaccaccg ttccagttca agtataacac cgtctgcatg ttatcaatag tcctatatac 780
 tacctggtac tagcttggcc ccaagacaat accgcaactc tttgcgtatc ctgcataatg 840
 gcaattgaga ccccgatgtc gaaatagcac tgcgggtata catactctag gcatgtttgt 900
 tccgaggcct gtagatggta atgcgttttg ctaccaaag gaattcaaca gctggttagt 960
 ttagcaccgg taagtggcc tgatggctta gggttggaatt gggtagtgtt cgtcagattt 1020
 gagagctcgc aattgagctg gacgcaaag cataagctgg tgctttgttt cgtagtgtgtg 1080
 agaatttgcg acgttggatt gttctgcttc tgcacgatgc tacagatacg agcagagtta 1140
 gcgagtacaa aaggagtgtg agactgcacg aaaaacgatg tcattgagag atctacaacc 1200
 tatctagcct acagatgatg tagccctccg tccatgcacc tcatcgccac gggatagaaa 1260
 gagaagaggt gtttggtaat aggaaggcat gaaat 1295

<210> 2916
 <211> 1644
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2916

gctttcttca ccgacaaggg aatgtcgccc gcgatcgtag tcgccggcat cgtagtgggc 60
 accgtagtgg tcttctgtt ttgggagagg gtcagatgag ttcagggata cgggaggtcc 120
 agacgggttag ggattacgca cttttgccca gtaaatttcg tagtaggcga atggaaaatc 180
 gtcaaagcgt ccgaacagac acaggacatg cttgtcttcg tggagacgac gcaggtactc 240
 gcggtgttcg tccagcgtgc ccgtctcgtt ccaaccttcc gcgacgcggg ggtcggttctg 300

ccatcggttg aaccgcttca ggtgctcttc gttctgccag tccacgacca tgagtgagaa 360
gtgtttgtcc aggtgcgga tgtagcgact gtagacgagt gagcccgagg taggctttgc 420
agggcggaacc ggggtggcgcg catagatgcg ttcgcgggga aatttcatcg aaaactcgta 480
gttctttggc atgacggggt attgactgag agatttgca gccaggccgt gcgtccctg 540
gtcgaccatc cagataggcc gcgggcccag tggcgagcca gcgccctgcc agaaagaaga 600
gcgcagcagg atcaggggtgt cgatgccga aggtcgctc tcgttgccga aggggactcg 660
tggagacgga taggggacag ccagtccagt gcggatgcat tcctcgcgga cgatctcatt 720
gccagcgccc ttcagatcga gacggagaac ctctcgttgc ggatgtgta ggaagatggc 780
gtggattacg ttccagattt gtgcgaaaga aggtggttcg gtgccggtcc attggaatgt 840
ggttcctggg gctcgctggc tgcgtgccc agggctgtta tcgttgctg gaatatcttt 900
ggcggattcg tcgaaggcaa tgtctgtgta ggtcaatgca tcgttggtga gaggctccgc 960
cagcggctct ccaggaacct gggagtcag gagtcggagt tgaagcactc gtggactgga 1020
atcgagacg atgtggattc tgtagttgta agataaggtg agggagtctt acccaaggat 1080
attgttgttt ggcagccatt ttattgaatt ctgaggggat tggagagatg aggagaaaag 1140
aatgggctgg cgcgcatata tggggagacg gggagcatag agtgagaaa tgtggaagaa 1200
gcgcctggac cagcgaaacg gccgatggcc ggacacacgt gggactacag tactttaata 1260
tgctgcagct gctctctgaa gacttctagg aatccatacc taccttcaga gcgcagtcaa 1320
catgcaacac ccaacagtcc aaggatgtct ggtctcgttt cctaccccag agatcctgct 1380
tctcacactc aacaggcccg agaagcgtaa ttctataccg cttgctataa gcgcagacat 1440
catacggcta tgggaatggt tcgatgcaga gcctacatta cgagccgcaa tcatcactgg 1500
tacaggtgaa tccttctgct ctggagccga tcttaaaggt atttcccccc agcatcagat 1560
tccatgcagt atctaaacgc accacttcac tagaatggaa cgaactcaat gcccgcggan 1620
ccgtcaataa aatgaccgcc ccgg 1644

<210> 2917
<211> 2368
<212> DNA
<213> Aspergillus nidulans
<400> 2917

tttctgttca atttagtgta tataaattca tcatcacgtt tcaagcttgg ctttgttaga 60
 cgggcggggtt ttgattaggg ttcgtttttt gccatatgga tctgtgttag agctcccaaa 120
 gagtcaactc gctttaaatg cctctgatct tgtatcatgt tctgaagtta cctagtgtgc 180
 agcatgcaaa agaactatat acgacgcttt cagcactaaa acatcaacgc tatgtagcat 240
 aatgcgtagc acaagttcta atcttgcccg atattgctag tgtgagatgc ttggaaatgg 300
 atcccatggc tatagtacct atgctttctc cggaacccg tgctcttcta acccctcagc 360
 ccccgatatca ggggttgcaa gatcagactg ggactctaca aacttctccg cggcgacgtt 420
 tagtcttcca taagctgggtg gattacggcg cggttgagcg gggcctgagg tggggatttt 480
 gtagccacgg agtctgtaaa gaccaaatac tgtcagtaca cgtcgttata cacagtggat 540
 gatttgttca agctctggaa gaacgtacct cggccettga cccgtgatct caggaaactc 600
 agccaagtat gtttgctgga atgtgcggac atctgcctcg aatgtaccgc gctcaatgct 660
 cttacggacg ttagcgaaga agaggtccat agtataatag ttgtgaattt ggagaagggt 720
 ccatgcgagc atttccttag cggagaggag gtggtgaatg taggcgcat gatggctttg 780
 acaagcatag caagcgcagc attcacttag tgggccagta tttgtagtat ttgatcgca 840
 ccaaagatca tcagcgagag gaaggggttc ggtggatgga tttgatgctg atgcggtatc 900
 tgatggagcc ggaaaggaga aggtgaaagc catccctgca tccgacgaat cggccagaaa 960
 cgggatcgtg aggaggtctg caccgagctc aacttcgcgt aggagatcat gcggagtctt 1020
 tggcccgtg aaaagaaggc gcgggaggtc acccagcgac tcggggacga tagagagcga 1080
 cgtgggttcg tagagcgcca ggccagaaat ggatggccgc aagtccgttt ccagatcttc 1140
 aaggtaaagc tgetgctggg tgttctcaac gggcaatctc ggggcaaaat acgccgctgt 1200
 cgaccgactg tgttcagaga gctggggccc gtagaggtta tccgtcgcac ggggtgtaaa 1260
 agcgtgcgtc cggtegacca tcttactcgt ctgttttgta cctggcttct ggcctactag 1320
 cagatctgcc agcccgaccc cgatgtctgg gctgaggcgc tgaatagctc cgacgtactc 1380
 gttcgctct agctgcgcac agcccaccga tgtaagtaca gcaattgacg tgtctgtatt 1440
 tgccggtcca gaagcaattg gaggttcgcg gcgtgcgccg aaagccagga gcaggtcac 1500
 ggcggcacia atgaacttgc gcaaagccga ttcagaggt gcggttggga catgcacca 1560
 ccggcccagg tagtgaagac tttttatact gcagggtgctg cttctctatg actgatattc 1620

gagccccggc gggcattgac ttgtcagtat gcctcgcttc gcctttcctc aatctcagga 1680
cacgtacaat cttctaggcc aatatacaga ctaccaatag aggtattatc ggcgcatcaca 1740
tcatgtgcta gatgagggac aaccctcgc gatgtcagag ggatgtagtg gggcgtcaag 1800
atgggctttc ggctgcgat cgtcagtctt ccagccgcg gggagagcac tgcggctgag 1860
gacctcgaga tgctaaaatt gagcatttca tgtggcgagt gtagtggtgt atctgatccc 1920
atggcgatgc gcagctgaag gagtgagtat gtgcagctga aagaaaatgt caagttgttg 1980
gcagaggctg ttatcgataa gtacttgttt cgcgactcca attcctccag atcacgggtg 2040
accttaataa cgagaccct atccacggta tctcctgca gcgcgtcgac tccctggaca 2100
cttcgaatca tagccttaa ttgtgcgac tctagatttt aagccattac ccgctcgacc 2160
agtacgatta ctttcgattg aagtacattc aatctacaat atgagcgtga atggcacgca 2220
tgggggacgc ggggccctga ttgtcgctga aggcctcgat cgagcaggca aatccagcca 2280
atgcaagttc catcacaaca ttctacaaga aggaggccgt cccgtgaagt acatcagggt 2340
tccagggtgat acatcttttg ctggaacc 2368

<210> 2918
<211> 1168
<212> DNA
<213> *Aspergillus nidulans*
<400> 2918

cgaatatatg ttcattgtga acactctagg ctgccgagta cgcctatata tacattacga 60
aggccaagtt ttttagatca gtagtttttc gttcagatta ttcagtagaa tataatcagt 120
agacgaatac tgtcaagttg tgtcataata acaaaacaag cagccgtcca gtatagcctc 180
gatcgaagga tctgtagatt aggttagttt tccatttttt cgatttttct ttcattccc 240
ttctcttttt caggtggett tttttatatt ttattttcat attttatttt tatattttat 300
ttttatattt tatatttggt tttttatttg agtttattat cttttccctt ttttcagaga 360
ggctagctag ggagggcgtc agcggccggt caggagtggg tgtgtccact tttggagcgc 420
acgggtcgat ctggccgcca gtataccga catttaggta tcagatcacc cagttgcata 480
gagtacaagg gatcaaaaat cgagtccagt gaggctaatt ttttttctt atactcaact 540
gacctatctc tcgtgccggg tgacttatgc tgaacaagg aggacttggc tcgggttcaa 600

ggtgaaggat tcaagtttat ggcagaacct tattccaggc ccgataatgg aggtgttcgg 660
 taaattaggt aaaaatatta aagcagaggt gagaaatagg agtaaaaagt gacttccaag 720
 ccctatgac ttacactttt ctcttggttg acagactggt ggaggaaaag tttaccgtca 780
 cagcccgagg gccacgaga cttaggttat cggcaacct aagtacctgc agatccagcg 840
 cggtgataaa catatctgcc tagattgacc tccgcatagc tgatctggca cattgcttat 900
 tcaggctaatt gcgcgattct gcagcatgaa ctcatgatcg gccaccattg cgtaggggtat 960
 ccatccaatc gcgctagggc aggtgttttg ctgaccagac agtttctagc caataatgtg 1020
 tatgggcagt cgggtctgaa tctggcttca aaggctcttg tgcctgatac cgggttagct 1080
 gagagtctgc gtactaaaca gtccgatgcg agggtttgtt atgcagtcga gggagtggaa 1140
 gcgaataggc gctcagcacg tcaagcct 1168

<210> 2919
 <211> 1078
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2919
 gatggtggcc gtcctctgtg atcttctttg cataagccgc attagcgatc tatttgttta 60
 aaaccatatg tagagtctaa cctgtttggtg ttgctgggtat caaagttctc tgtaatatgc 120
 gagctgaggt cctggacgga gtctctccag tggatattgt ctggtatagc tttcgtggcc 180
 tcctcattgt tgctatcatt aagcaatc tccagcgcg aatgtgcacg gttgacaaag 240
 tcggtttcgc tcggagccag ctgacgcgtc ccgggtcgtc tgtcaaggag ttgctgctca 300
 agattatctg ggaacaaagt ataaagcaat tcggtgcggg tacgttcggt gttgttcac 360
 gacgcgatga acgcttgagt cttcatctca agaaaaaggg caccttgctg ttgagaagc 420
 cgtccacctt cggggacaaa tacgtcgaga aagttatcat tgagctcaga gaagctgac 480
 tcctgagtac caaagatgct ggagacaaac gatgccaggt ttgctttgcg gatgatgtcg 540
 acttgccaag gttcagttag ctgagctcc gtgggcgaga ggaacgattt cttggttgaa 600
 tagacctttt ttgtgtggtc aaacagttag cgcacgtag cgtacgcctg accattctcc 660
 gactccggct cagatacgaa ggaggttaata tcttggtacg tggacttggc cagcagcgac 720
 agaatttgcg tggactgcaa attagcttcc taaccaaacc tctgagcctg aattagagaa 780

ctcaccagat tatcaagaat gggtaaactc tgaattttta gatgcgaatt ggccttgaca 840
 aaaaccatcc ccttgggagc gccctgaccg gacaaatccg gcaactgctg gggacccatg 900
 gcgcactgct cctcgacacg ctcggaatga ttcgatgtgt tcgagatgac agtagctacg 960
 tccgagtcga tattcgtggt ttgctcttgc acaggacttg ctccgatctc ggtctgacca 1020
 ttcttgctat ccgcagtttc caccgaatcg acgacccccg cggcaagggc cgatgcaa 1078

<210> 2920
 <211> 941
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2920

catagtttat tttgtttagg atagacagtt ttctgttgt gtgggagtgc ttcaacactg 60
 gtaacatata gatttggact atgatagaca catgatacac ctaatattat ttcgtgcgct 120
 tggtcagtct tctgcactgg tagtcaaaac ttgaccggca agcgtcagtg cggagagcca 180
 tccgtgccc agagaaaggg caaaggctta gccctccctg gcctgccagg atgatgtcac 240
 aacttcgcgg ggttgggtag tcccaggtaa ctctagctgg tcaggaacag gttcttttct 300
 ctgcatttcc gtatataatg ccctttccgc ccagttttct aggaatgtgc gaagttaatc 360
 acgctgtaca tccgcgcctt cgcaacgaca ctctccattc ctgatcgcgc agcagctgga 420
 gaagtcaacg agcgcagctt attcgaaatg tctaacgaga ctttctactt gcttcccttg 480
 aacgacgatg gctctccgga cgtgcctggg ggttttatct atcttcccc accagaccat 540
 ccaaagtatt cgctccgatt cttatcgag gggagcagct caatatgcag ggatgggacg 600
 ctttggataa atattcctga gattggaaaa tcgtttgatc gtcaatcgtt tcggcctttt 660
 aagtgagaga tattttccct tttgcccac tttctgttga gacgatttg ccaggttata 720
 tccggacttt agcagaaaca ttcagatcga tgtcccagtc acctgtccc ggtctttcgc 780
 atactatgta acctactgc cactcccga gtttactatc acatccagcg cgccggtgaa 840
 gccagcaagg actccgactc attacattga tgtgtctcca aggctcagtc ttgcgggcga 900
 gggatatacca ctcaatgctc tatcaatatt ctcggtgaat t 941

<210> 2921
 <211> 4625
 <212> DNA

<213> Aspergillus nidulans

<400> 2921

ataattggag acgctttgtg tatggtgacg cgctgccaga ttcacaaat agctgataca 60
ttccagtaga cgacgtacat acgatttaga gatagaaatg acgtatacaa agatttgatg 120
tggtctgggt ggtttctgca gactgattga gccctggctc ctgatggaca ctaaaccgga 180
aaagggaacc aagatgtaca ttcattatct acaccgatag tacgtcttga agcgaagtac 240
tctgtactaa gcgactcatg actaatagac caagaattgt tatgtaaaaa catgccgata 300
tccattaagt agatacacga acagaaatca agaaagggtca agcaaggaaa aggagaatat 360
gtttgagtgc ccgcacaagg agacattacg gaacatcaaa tcatgcagct atcgctcaat 420
cctctcagca cctagaaagc aagaacagcg gcgacaccgg cagcaacagc accgaagctg 480
acgacgttgc ggccagcagc accggtgaac tgaggaggag caggagtga agtaggggtc 540
caggcgggag cagagggggg cgggacgagg gtgctggagc cgggggggat gacaggaaca 600
gaggtggtag caccgccagt gggctgggtc tcaggacagg tgggtgggtg gacgacgggtg 660
gtctcggtga tgggtggagga aggaacctgg gtgggctcag gagcagtgct ggtaggagcg 720
gaggagctgg actcgccctg gccgtagttg gggttgctga taccgaactg ggtggaccac 780
tggtaggcac ccttgttagg gccggactcg acaacgagga gaagaccgta gtgggtgaca 840
tcgggctcga gctcggtgct gggagtccac tcatagtgac cgctgttgcc aatgttctcg 900
gcaatggcat acagaggctg gacgttggtg ctggggccac ggaggagaac cagagagacg 960
gagccctcgg tgggtgggatc ccaggtgatg gtgtagggct tgccagcagg gacctgctcc 1020
tgagagaccag gagccaggat ggcgttgccg cttggggcca cagagtagtc gggggtggtg 1080
taggcagtag ccatggccac gagggcggag atcagaccgg tggagaagaa acgcattgtg 1140
gtgatgtgtt ttgaattatc gtgaagagat atagagtcgt aagagggcca ggatccgcag 1200
ggatagaaaa agagcgactg gtcttcaaag gagagactgg atgtagggat gtcttgaaag 1260
aatgactgga gggcgcaatg cacgtccgaa ttggatcaat gagggagagg ctgagtagga 1320
aggtgggagc gaggagagaa aagaaagacg aaagaggggg gcgcagggaa acggctcata 1380
ttaacagcac ggagttcagg cacaaggtga caaggtccat ctcgcaagct aagccgacac 1440
gctactctag tgtctctagc gggagtccctg tatttttgcg cgttatttcc tgctcaagcc 1500

tgcggctcat gttttagtg ggtcggccgc gagattacac gaggaacgag acggtgtcta 1560
 attgacgggt cacagacacg agcgagcaat tggatgtaat ggatgtaacg acaacgcggg 1620
 atcagtccag agagtctgag atagtctgag atccctgcat tgttcgtggt aagacaggat 1680
 actggtggcg acttggaagc tggaatgtga ttgacagtcc tgggcgacag gttcgcgcgc 1740
 aatgaaggag accaaggagg gggcaaggag gaggagaagc tgagaggaga agctgagatt 1800
 caacgttgac ttgctggacg ctactgggc cagtccaccg gggaaaccat tttagtgtgt 1860
 cggtgggctg gagcacgaga tgaacccttg aaccaggat tgggtggagat tcagcctagt 1920
 atcagcaggg aaattacaca tttagcatga ctgtgctatt ggggctcagc acaagtgcgc 1980
 agaattgcag aaaagttact tttgccagc ttggctctga ggatctcaga gccagcagag 2040
 acttgaaacg ctggttcgtg gattggtagg cggttgtgtc tgaattaatg tgttattaca 2100
 gttgggactt gacagctttc actgttgacc agcatcctct atcgaacaaa aacaagccgg 2160
 ctgattctcg ggcgctgacc gcacgattca cgcaatggag actctctatc tggtcctggg 2220
 gaacttggcc tgttacaaat tgtcattggc cagtcgaatt atcctcgtat ttatagtaag 2280
 cgagttaagc tgaaaggtag catggtacct ggtgatagac tggcccgggc cctgtaagac 2340
 acacctacat aggaatcgac catttcttga tgagatcctc gttcgtggc tgaaagcctc 2400
 ttttattatt tataaagctg cgctacgaag aatgatccgc aaggggcacg tatcaggata 2460
 gagccgatga actcgatgaa ctcgatgaaa tcgataaagt tgatgaagtc atatcatccc 2520
 acgttctgaa gagatattta gaagcgatcc ttgagagcat catctcctgt tcctgggcgc 2580
 taaatggggc agtggcgcac tgtcggatct tagggccagg tccggaaatt gtctcagaca 2640
 attgaaatga ggctaaggct gccgataacc tgattggatc gcctttgaat tgcggaagag 2700
 ccgattgatt atgatgaatt gggactgggg ttattcttag catatttgag tcggcgggca 2760
 ttcaacctca aagccaggaa gaccagagta aaggccaaaa caggaccaga aattgccagg 2820
 aactgccagg aactgccaga gcagtaacca ccaactgtctg acagattagc ctcggtcgg 2880
 catactgcac aaaaaacgtt ttgcaaagaa acgatctgtg taacgctgca ggctctcgct 2940
 tacaacgttc atcaagtact ggcgtctag atgtccgttg ggtcgttggt ggaatagagg 3000
 cgtttcgctg cgctgtcct gcgtgggtgc cggctactgc atctagcgat gcgcccagcc 3060
 cattccagcg cttctaagtt cgaagaggtt tcctaaactg gacgcgagac cggtcctga 3120

ggctcagatc caaccaatgg ccagcgtggc ggtatgactc agtaatgtgt gcgaagttct 3180
 gcagttgggg gcgtgatgtg agatcagaga cgtcgggtgt tgcttttaca ttcagtccta 3240
 ttcggaagg agggtcacc gccaggctgc cagcataatc tcgtttccct ccacaaactt 3300
 aagcatcaca acttccacat caattatcct gaaactggat gatctctctc ggcccgtttc 3360
 cggtcctctc gtcatttaga cgttaatctg actgccgaat gaccctgcc gttggaaatt 3420
 tctcgcaaat tgcgaatttc cgctgatct tgatgggatc tcgactttca agctaaattg 3480
 cgactaaggc caaaaagatc agaaatttaa gcctcttgac cgaacggaag ttctccggga 3540
 tacgattctc ttggtcgact aggcaaagc tagccttgcg tttagctagt taccactgta 3600
 acatcagcat ggcttatgac tcgatttgag attcttataa caggtaccgc gcactccgga 3660
 gaattgaatg gcccataat cgtgggagag acaaagtggg cctccaaagc tgtccatgat 3720
 gccattttgc ataaagtttg attgattgtg gatcggtcag gctgttgtaa ggattcctcg 3780
 tccccctgaa caggcaagcc gagcctgcag acaccaaggg cgcaggcaga gtgaggtagg 3840
 tcttgaacac aacttctgtt accgtaccat cgctaaccct gcagcataga taaataatgg 3900
 tagactatct tacattttga cgccagtgtg ccgttgctct cacctatggc acagccagtg 3960
 atctcgccca gggttgtcgg gaaattcggc ctgcgattcc ggactgcgga tacaacgtac 4020
 agaaggtaat ggagcgctag ctttgagccg aaaatcggag atgccgttat ggataaggaa 4080
 agtcgacaag gtcagcctcc aggcccaaaa caggctcacc gggttcgagg taccatgggt 4140
 ccacctcaag actaatggaa taggtcacat acacacatgc taactccagt ttgtttatgt 4200
 atacgcttgg ggaggatgtt cgttgctggt atcgctcata tatgtattgc ttatatcgtc 4260
 aaatcgtcct gaaagcctgg tatccatcat actatgggcc tatacaatac acccgtagtg 4320
 agccagccac tactccagtc atcagtgagc ttgcctttt actccacca ggtaatggtc 4380
 tttgtttgaa gccactcgtc atagccagcg gtgccaccga agcggccgaa tccactgctc 4440
 ttccatccac cgtgaggcag agtcggctca tcgtggaccg tcattgagtt gatgtgaaca 4500
 gcactggcga ttctagtcag cacattgctc tttggagaaa aatgggtaag aacagacgca 4560
 cccagactca atctgcttgg ccaccttaga ccctaaacag attgctcgta acactgccga 4620
 tgtga 4625

<210> 2922

<211> 1488
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2922

```

cgacgacgac gaatccgatt ctctctcccc caccatctttc agacgtgccg catcccgttc   60
agaatctcct ccgtcagcag gtctaggtct gggatatggc tcagggatgg gccgtggctc   120
cggaagaggc ttaggcatgg gtcaaaactc ccggaataac aatgcgacca agcagtcctc   180
cggaaatggc ctgcgcggcac actccttcgg tgcccgcatt ctagccaaga tgggttatgt   240
tcaaggccag ggtcttggat cgagcggcca gggatatcgt aatcccatcg aagctcaggc   300
tcgtccgcag ggtattggtc ttggggcggc ccgcgagaag agcaaggcag cggaaccga   360
ggagaaacgc gccgccgctt tacgaggcga atccgtcgaa gagagctcag atgaggaatt   420
tacaagaaag aagaagaggc agcaaagaaa ggaaggtggg cgtgcggagg gtgaggcgcg   480
gcctgttgga agaaagaagc ctcatgttcg cactgcccgt gaaatcgagg cggatatggc   540
aggctcttag gtgcccacgc tgctcaagtc cctgatcgat gcgactggca gggaacataa   600
ggctcttgacc tccaccgcag gtctgatgac gccggtcgac tttgtgaata ctgaacaaag   660
cgaggcttac aagattgcac gccgggctcg ccaggatttg gaagctttcg cggatgaatg   720
gaagggtttg acggagagga aacaatacat cgaacaagac gaagctcaat tagtgatca   780
actggataca aatcagcgcc aaatcgacca attatcggca ttggtcgctg ctttggagc   840
tcttgaagtc atccccgaag aaaacgggtg tagcccgcaa gcaaaattcg actatgtgac   900
tgaccagttg gagtcgcttg aaattcagta ccgggcccga attgtgaata taggctctgg   960
gaaacagcgt tgcggccatc caccctctat tccgagaagc catggaggac tgggagccgc  1020
tcaaagcccc gaccttcttg gtggctaacc tacggcgtct ccaacctatt ctatctcgta  1080
aagccagcga agggcaactc gtgcagcgct cgtcgacctc tccttacgaa actatgatct  1140
atacccttat gctaccacgc gtacgtcccg ctttgcctca cgaatgggac gttttcaatc  1200
cttctccggc caccacgctc atcgtctcat ggaagaagc cctgcccccc ttcgtctacg  1260
ccaacgtcct tgaccagcta gtggtcctta agctaacaag cggcctaaac tcttgaaaac  1320
caaaacggtc atctttctca tccactctc aacagaactc tcgcgtcccc tgggtggcttt  1380
tcacatggct ccaatacctc gacgaacgac acacaaacct gaagcaagca acaggccttc  1440

```

tctcggacgc aaagcgcaaa ttccgcagag ttctggacac atgggac

1488

<210> 2923

<211> 2813

<212> DNA

<213> *Aspergillus nidulans*

<400> 2923

tgtatcgatc acccaaccct cacttctcta cgcgtggccg ggtgtaagca cattctggaa 60
tctatatacc tgcctaagtg atgcccctgg gcatttgaag cgtttctgtc tctttctcct 120
aaccgggcta tttctgacga catggaatct tctctgtaag taccctcct ctccgctggg 180
tagcaagctg agacttgaag atatacgaac tctaaacgac cacccaaatt gcgatcggct 240
tgcaatgaat gtcatgcggc caaggtacgc cctctctata ctgttcgcca ggcgtatctg 300
accgagtcca ggttcgctgc tctggcgaaa agaccggctg ccagcgtgc tcaaacctcc 360
gtctgaaatg cgccttttcc atctcgcgca ttggcaaggt cccaggaaaa cgaagcaaag 420
ccaaccgggc cactgtgaca ggatcaacct cgtcgtctgc gtctctctcg atttcttctt 480
cctctctatc gacaccgatc atgtcgcccc ctcttccgat gacgtcttac tcatatgaca 540
gcccgcgggc ctatgaagca agaaatgcta taccatttcc tgcgtcccat ccgtttaccc 600
atgagtagcg gcccgactt tcaactggcg acgagacaag ttatgccag tctctccaa 660
gctatcttac ccagtcacgc ccggaagaat cgtcgagcct aaacaacctc tgttgggcgc 720
cggagttaga tcagttgggt gggccaggcc ttttgagccc tgaatgggag attgacgcag 780
aagaatcttt tcttcaagtg cccctcagc cgccgacctc tgtacctacc tacgtggatg 840
tcacttccga cggtaggaat gcctcagagg cttatgaatc cccgactgag agcattccac 900
ccagccaata tccactgtac cttcatctcc ttcaaagcat tgaccatagc atgcgtctcg 960
cgaatcagtg cagatctcca gggcagcaca cttctacaca ggatatgac ctggctgcga 1020
cacagagata ccttacaacc ctcttcaga ctaccgagag ccttagcttt acacacacct 1080
acagcgagga acaccttctt ttctctgtgg ccctggataa gataatatat ctgctcaaag 1140
tcggctatac agatcttcgg cgtcagtga agtttcgaga gtatgtgtta aggcgtcgcc 1200
gagccagcca aaggctgggt gcggtacggt gcatttggga tggacgtttt cgagcaagtg 1260
tcttactgtc gcaagctatt cgtggaggag gtgaagcggg caggactctg cctggatagg 1320

ctgatggagg cgatgggata tctggcgatg actgggtcta gctcatcgtc gcctggtagg 1380
 cacgaaaggc tctgtgaaga gatgaagaga agactcgatg gattgatgga cagtctagag 1440
 ggtgatcagg gtgcacaggg gggtcatttg gttgggtgac tacatcgttc ctgacttgat 1500
 atcagactgg cgtacaaata cttacagctt ccacatattt taccatccc cgtgctcatt 1560
 gcgtattgtg tcgaatagag tacgatgata tctttcacct gccactttca agatctgtaa 1620
 ggaacgtgaa ttttgaaccc tagcaatggg tagtcccgat attatccggc atatgctctg 1680
 tttctgtgaa acctaaactg aattatctat attcccaaaa gtctcgctgc cattctatct 1740
 tatcagtacg acatgcctca cgctggcagc cggtaaagtc cttacagcga cgtacagtgt 1800
 tccctgccttt gaagtctacg caccttgata aaatgaacgg ccattatga gcaaaggggtt 1860
 tatcttgagc ggctacaata gccaaaacga attctatgcg ggttttgatg gtactgcttt 1920
 tattcgcagg gtatgtgaag agctgccagg tacgggttga taacacctcg ccatttccaa 1980
 aaccatgcgc atactttgca cctagtctaa atggctaggg tcatacaagc ggccggttga 2040
 gaaatgagtc agtctggctc cgaaatgggc aatagagcat cagtagatgc gcgggagactg 2100
 taggtataaa ttctcctgat actggataag taggtgatta cgcgcttaga aacacaaggg 2160
 ttcatccttt ctactagcaa gagaaatc cttcaaattg ataaattcgg cattctgagc 2220
 agtttattat acgaccaatg tgagttaaaa tctagccctt aggaacattt ataattgcat 2280
 gaagatataa cggcggggcag atacaactgc atttagatag gacatccggt acctagtagt 2340
 cttgtgaaaa tccccatctc cccatatcaa accaaagtaa atcagtcaga agatagaaca 2400
 atgctgttga cagattgatc tgtctcagtg tgatagctgt gttttacagt actctggttc 2460
 ggtgttacat actgatggct accagtcttt aatgctaaag gcctccgccc ccaatcactt 2520
 agagctcctt gctcttgat aaatatgcgt gcagggggcc attagactgt atctctacca 2580
 actcctatta taatcacgtc tctctgctct tctatggcaa gggagctgcg agaagtcgta 2640
 aaatccacgt gtgagacca cgagttggcg caggctgtaa tcaatatgcc accatatcga 2700
 ctgtggaaag ggagtattca gactcagtat atcttgtgct accaactagc ttcaaccaac 2760
 ttaataaaga cgggggtctga ggccgggtaat actacttata ctcctcctag ggc 2813

<210> 2924
 <211> 1435
 <212> DNA

<213> Aspergillus nidulans

<400> 2924

ccggtgtgtg cgagttatct aaaaagatca ttggtgattg gcggctaccc cggaaacccg 60
gaacaggctc aagaatctcc atactggtgg acatatgcag gaagattcgt caagggcgct 120
ccgtaagcgc gcgaagtctg tgtcgagcac gatcaagcat ccggtgttgc gcggaggggt 180
caaggagaga ctgcaaggac agcattccac gctctttaac ctgatcacac agaacgacag 240
cctgctcagc acaagtatcg cgcaggattc gcgcgaaatc gccgcggcga gtaagcgcga 300
cagctcgagt atgaaaatca ttgcgttctt gacgaccttc tttctccctg ccacatttgt 360
tgccgtaaat ccaacagcct cccatgggaa aacaatagct gaccagccgc tagacattct 420
tctccatgcc ccttttcgat tgggaaaagc caagtatcaa ccacgttgca acgcgccatt 480
tctgggtctt ctgggcgctt gctggccctc ttacactaac cacgatggct gggattgtgg 540
cctggggcgt ttggcatacy aagaatacaa gaaatacgga gaaaaaggaa agactgaact 600
ttagccaggc gatcgccgac gaggcgatga atttgaagag ggcggctacg atgcggagta 660
tgcaggaagg ggggtgtgtat tgggataagc ctgccccaga tgcagtctaa cgtcggccgg 720
gtgtatactt gcatgctgtg tggtttataa ggcttacgag tccatgacca agatgtagtt 780
tttagatatg tccaataata gacgatatac ccaactcaagc tatcttagtc cagcgtgatc 840
ggatgcatct tcttaaacac attcgtggga tcgtacttcg ccttgagcgc tttcaaccgc 900
ggcaggttct ctccgtagat gttgccacc accgcgtcgc cagctgccag tcagcatcga 960
ttggttagca ctgtcggctg gtatgttaga gacgaaggga cagactcacg ctctgcataa 1020
ttgatgtact gcggcacacc ggccttccca gccgcacga gattggcgtc cgtctctttc 1080
tcgagcacgt ccttcaccg ctctgcacc tccctgccc acgcccgggtg ctccagatcc 1140
ttagtcgcat ccgaccagcg cagcgtgatg ataccgttct gcgttgtgcc gcgcgatgca 1200
aatgccgtcg ctgcccggg cacagagacg gtcttggtca tgtcgtagaa ttcgagtagc 1260
agcgcgctcg cgccagatc gggatcggat ttgaccttag ccgtaaactc ttccagcatc 1320
gtctttgcaa actgcggcga cagtggcggg ttgaagaaga cacctttgaa acttttgcg 1380
tcgccgtaag tcgccatggg attttgaagc tgttcattgg ctgtacggga acatg 1435

<210> 2925

<211> 1326
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2925

```

gctcgcgcct gaccactaca atgcatccat ccaattgttg ccgtcgaagg ccactgcaag 60
tccgtactcg aggtaagaat tgctogaacg tgagtgggta ccgtgaacg ggccaggcat 120
cgaatgtact ttgttatgtc tgctgttggc ccgtggagtc aacggccagc tcaggtattc 180
tcctgccggt gccggcattg gtgagtctgc ccagtcagtt caaggttaag tgggcttaga 240
acacgtataa agagctattc tgatcgtgca ctgcagtgcc ttccacgcgt tcatctcaat 300
ccatctggtc aaccacctac gcaacgggtct atcgatgttc ttgagcccat taccgcgcga 360
tcctctgtca gtaccgggca taggcatggc tacaacaacc acacggcatc ctttgaccaa 420
gcgcaacctg gcaatactgg atcgtcttct tcagagtgtg agctcctatt gcagctgcat 480
cagagtacaa cgaggcccta actgtgaatt tttgcagaaa cacacttccg agacaatcac 540
ctcatgggct gaaaagggtca tatccgaaga acagatgcat ctgctttgca ccagccggc 600
tacctccctc gacggcatgc acccaccgcg cggagacgat gccaccgatc tcaaagtcga 660
gcgtgacatg gccatgttcg ttcagtcggc acgcagcctc cccactgtgg aactaaaag 720
gactgatgta gactcttcta aggttatcga ggtggagaca tcacgtccgt tcatgtgcct 780
tgagagtccg ctagagcggg acctaacccc cggatctagt gagccgagtc actttagccg 840
ttcggctctg gcgcacgtgg ggcttcagta tggggatatg gaggggaaga aagagagagc 900
tgagatggcg cgcggacatg tggaggtagc gagagacaat gctcttcagg cgcgagaaca 960
agcgggtaaa tagatttgga gttctggttg agtggcttgt acatcaagac gttgcatgtc 1020
agggccgttc tgcagaatat acttaggacc tgtaacatgc cttccagcat catactggct 1080
ctgcgcatac tgcaaaaatg aaagattcag tagtgattat tgcattgatt gggattatt 1140
agcggagcgc ctaacgcttg ttttaatctt ggcgcggtag acgaatctct cccaagggtga 1200
caaacaacgc cgttctctat tccaaacctg catgcaataa cttatctgag tagccttgga 1260
ccaaccctta aatactgaca acacaagtat gcctttaagg gttttcgttt ttggccaaac 1320
ccatcg 1326
  
```

<210> 2926

<211> 2995
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2926

```

gaaaaaaata agagtataaa gaagggagag aaggagatg agaatgatgt gttgagtaga 60
aagattaagg gaaaaggggt ggaaataata agagtatcgg taggtttata aaaggaaaga 120
gaaaaggaga gaaagagtga tgaagtgata aagttataag aaagattgag gattaaaagt 180
gagctgaaga gttagagggtg aagaaaaaaa tgaggtgtgg aagggccggg ttgctaggga 240
ccttgaggct gtagcagtta gcagaaagaa cttggagggtt ttacgaaaa gtctggaaga 300
gacgccgcca acatagggttg gtaggttggg acgccgttgg ttatacccta aggcggccaa 360
agtgcattgc caagttcttg ccatgaccgg agttcaacag ggtgtttgaa atcactattg 420
caggataaga cactttaaaag ttcgggtaac agcaccaatc attcaagaca tccctgatgc 480
gcctccaaat cattgattaa caggccttcc taatgagtcc tctatgttgt caaaggcgca 540
tcgaatcgct ctacgcagga gtatgatcat atcgactcta accacctaag attgcgccg 600
caagcttttg tccatggtcc attagcttct gttgcctttt cccaccatag cttgatattg 660
gtgaatcgaa ggtgagggtc tggtttggtt tccataagca gccagttta gatcgagtcg 720
atgggcatag catcctaggt tggacaaatc cctcgacccc cgtaatgtgc aggtttgaag 780
taccgggctt cttatttccc tctcgagtct gttcttatgc taattcagcc ctaggtgaat 840
aacaacatgt atgcttttag atactcattt ttatagtcgt ctcatggaaa ctgcttgac 900
gacactcctg tcagatgaat atagggttga actgagccaa cctgtcaagt actgtgaaac 960
gaattgcgac ttgctgcaat gtccgtatgg aaaatgaggc agcagaagac aatcgcgga 1020
tggttactga aagtgatatt gtcctcttat aagggttcca gccctttccc tagcttcgaa 1080
cctagtggaa caactgcctc ttgggccatg ttaaaatgga aaccgttcag aaggcgcca 1140
gcttttcgta cagagtttta ttcttgctt cgtgagacgc gtcttatgct cagcgggttg 1200
gctgtaatcc tctgggacat accgcagcgt ctttctgct gtttacacaa gcaagtcata 1260
ggactccgta ggtggaatcc aaacagctaa agaaatacaa ttccataaa gccatcgact 1320
cgagaaaagc agacttgctc gaccattcg cgtgatcttt cacgtaaccg ggtaaagcaa 1380
tcatggcttg tgaaaagttc gcgcaatctc gggacttcc caatattatc cacgaaaagg 1440

```

ttgggaccaa gcttcccctc tgatgggttac cctggagctt gaacacagcc attgacgacc 1500
 tgccaaggct gctcaacatg gccaaacgct cgaacttgcc gtcgctggta gcttttcccta 1560
 ggtcatacgg gataaacact cctggggtct tgccactgac tcaacaccga ccacaacgtc 1620
 cccaaatctg atatcgggtcc ctatacaaaa ttccaccaca aatgccaacg agaaaccta 1680
 acgatggatc gaaagctgga cagcgacgcg atgcgctatt cttcgctcga catagggctt 1740
 ttcgatcctc gcgagagtat aggcacgagg attgtttggt ttagcttgac tggtaggttc 1800
 tcgtgtatct ccatcattcg ccgcagccat cttcagtgga agtgcacaaa tccaacagac 1860
 catgtattcc tcgtagcgca ggctcggttg cgtcaataag actatatgct cgtccctgat 1920
 ctactacgt cgtattcgct cattgtccac acagtcgttt tattgtcaat atagaccgtt 1980
 cagagctggg tgtgaaagag cgacagtgag ggaaaaatag gcttcgaggc tgcgccaat 2040
 ttagctatcg agtctcgta gtcaccaatt tgcaccgggc tgtccaagta cctctccata 2100
 ttatctcagt acatgcagag taattagtag agacgccaga ttaaggtata ctaatgctta 2160
 cgatcggggg gaatcctgag gccgcagtct gcagatctcg ccgagagggc agtgtgcca 2220
 cctgagcagc tacgtcgctg gccttgatgg agctccacta ctacgtctaa ttcaaatac 2280
 aatccgcata tgcccctgcg atggttccag ctgctcaaga aaagtctttg aaatcgtaag 2340
 gatctaaaat aacagctacg ctaatggttt gtttcattat tttccctatc caatccaac 2400
 gccaggcacc cgcgcaaatt cgaattaaac ggtcttgaaa gctaaatacg gagaatcgga 2460
 agaatgtcga agtgaagaag ggggtcgaaa tggcctcgaa tggaggggta tctcaagaaa 2520
 aaaaaagaa gtcgcttcat ccaagtcgca tgcctttata aaactccgcc gggaagggtg 2580
 atctgcgctt gtcgcggtc aaagccagca ctgttcggcg ctgagcccc gctgggtgga 2640
 tatgcagtgg tactttcagg cgctgttggt tgtttcgca gcataaacat cggctttcgc 2700
 ccttcctttt ctagctgctt aaagagaata agcggccgtt cttctagccc gagacaacgt 2760
 tcctgatcgc catacacaat gtaaagagcg tactgcttcc aataccggtg atgtaaaactt 2820
 ttaagaccg tcgggaggcc cctgagcatg gacatcaccg gaacccaaag gattgaaaat 2880
 tccaccctgc agttcacccc ccgtttaact caaccccag ggaatttcac cccgggttaa 2940
 aaaagggggg caacgccagc gggactgaat gggttgctca tagtccgat tggca 2995

<210> 2927

<211> 1508
<212> DNA
<213> *Aspergillus nidulans*

<400> 2927

gcacctggaa tccgcgagat aagcgcgcac ggtactcgtt gtaatcttca tatttataat 60
aatcaaaacg caatgtgttg aaatttgcaa tgaaagacga aagtgttagg gtgcagatgg 120
gggccgctga tcacaatcag tagactaaac tagctgaccg gccctgtctg actagcgatg 180
tagcctcgcc ccaaacctaa actctgaata tgttttggcc acagccatca tgttcaaata 240
tcaaaacgct ttaagagatg acgtgaatcc agccttctat cccgatctaa tgcagtcatt 300
atcatgagtg tcgtagcagt gtacacctga ccatcatgcc ccgttctcac ttagcaacgg 360
cgccggcaga gcagggggag gaggaagatg atcatgagcg tagtctggcg gaggagcata 420
tggatcgaac gacgttctca tcagcccaac gccctccttc aggtatagca ccaaccgata 480
agccgaattc ccgttcagat agtaccgatg cagacgctta ctgcgcagga atccaagccg 540
ttcataaagc ttcattgcag ccgtattcgt gatctcgggt tcgagggcga tctatcgaac 600
ccgtcattag aatcaatccg tgaatttttg aacaggataa accgcaatta agccagaaat 660
aagcaagaca agcagaatcg atacacacct cgtccgcacc acgcttctcc attgcgtcaa 720
ttgccatcct cacaagtttg gtcgcaaccc ccttcccgcg atattcttct tgcacagcca 780
acatagcgat ataaccgcgc atcgggtcgt gtctgtgcgg ctcgagcttc gagaccacga 840
cgccaatcat ttgttctcgc ccggttggtg agtttgtgtc cattgccagg aagcagaggt 900
cgccccattg gtaaaggaag tagcgg tata cgtagatgct ataaggctcc gagagatctt 960
tggaattag ttggcgcagt gcggcgacgt aggcattctt gtgagcaggg ttgtagcgga 1020
tgtagcgaat tgaggaagga tcatcgaacg gtcggtgtgt cggtgaggcc atttttttat 1080
gtagagggag gtagtgggga tgaagggcgt gtattcgcat tcattgcatg agtgcctgag 1140
acttgaatac tgtcagccgc gtagacctga cgggacatgc agtctcggcc ctttactaac 1200
gctagggcct tccccatata gcggccattc ccatgtaaga tatagggtta aaaccttttg 1260
taaagcggaa actgggtggc cttagtagcc acatggaatt atccatggtg gttacttggc 1320
atttgtgaca atatgccgtc ccatttcccc tgacaaccgt gtcagttttt cgtaagaat 1380
ccttttttct attcctaaaa agagtggggc ccttggttca acgcctttta aatatttttt 1440

cccccttgg gccccgtta ttccgttttc cccctttcct taaacattgc aatgtcaatt 1500
 tttttggg 1508

<210> 2928
 <211> 1696
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2928

ggcgataata cgactcacta tagcggatct cttgaagcta ctgttcagta gtcttttttg 60
 tgttttttgt gttttttccc ctgttgactg tcctttgttt actctggaat ctggatatat 120
 atatttggac accgaatcgc agcaaccata aaagatacca aggaactgct cccgctttcc 180
 cgtagtccag gcacaaaata tatagaagga tatatacgtg aaaaaatcta tgaaaatata 240
 ttcaaggaat catggaatat aataatgtag actgaattaa tcaataaaat ttttttatat 300
 tgcaccttcg tcagattggt ccgtattccc taccctgtac atagagaacc ggtgtgctgg 360
 gaaagtctgg gctagaccga gcggaatgca aggcttgaat ccgacgccaa gactgaaaat 420
 caaccagcac gcgagcttgc aagcagatca tgctgttgag gcctttcttc aagggtgctt 480
 ttcaccgcct gctgaatcta gtcaaagcca tgtgattggt cgggtaagct tgccctgaatc 540
 caagttgcaa aattggacct caacctttgt ccacgatcca cgcttttccc actccgtctg 600
 agacgtgggc tgaccttttc cgacctcgga gcctggaaga cggtttgga gccattttga 660
 aaacgaagtg gaaagtctca gcagactgtc gaatgtagtt ttgaaaatta agaactgggt 720
 agtaattgtg tagtgaagtt ctatgtgtat tacgagacgg acggtgaaag ctgcgttgag 780
 caccctaaaag accggcaagc tatgacgcat cactttttaa tagaagcttg actggcccta 840
 aaagccctca tcagaggcaa aattatgtaa tttcgttcac aacagggccc agaaatcgga 900
 gaagagtttt ccacacgcgg ccaaactcac cagagtcggt gaattgaccg tccaattgga 960
 gagctccgtc cgcccgcatc ctcaaatttt ttattctgcc attccagcat ttctcgctcg 1020
 tctgagtccc cctctcttct tcctatatct ctcctcggtc tgaagcagca aacaaaaccc 1080
 ccctctcttt gtctccatt gtcgtcaag gagagttttg gaggtgctg atgctacggt 1140
 agagtgaagta cctaccgaac tgcctcgag aggaccaatt ttccctcat aacccccacc 1200
 gcacacgact atcgagaata tgctgagac cgtcggccac gaggagccgg ctcttccttc 1260

gagccctcag gctggaggag ccgttgccca caacgcgac agcaaggaat tgcaaccgct 1320
 tcccccaacg gagactgccca atggcgccat tattcctcct gcatcttcaa ggatcgaggg 1380
 tagcacaggg cgactgtgtg cgctcgagct tgaggatggt acagtctacc agggctacaa 1440
 ctttggtgct gagaagagtg tggcaggaga actggttttc cagaccggtg tgggtgggata 1500
 cccagagtcc atcacggatc cctcctaccg cggccagatc cttgttatca ccttcctct 1560
 gtcggcaact atgggggtccc ctgcggggag accatggatg agctgctgaa gacattacc 1620
 gagcaacttg agtcgacccg gattaacatt gcagttttgt cgggtggacat atgccggaga 1680
 gaaccactct cacttc 1696

<210> 2929
 <211> 1604
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2929

ctgcgtccgt gaccactctg atgtgccccca gtaaaaggcc cagccctttt caatcacgaa 60
 attgaacgct ctactgtct cttccattgg tgtgagtcta tctgggcggt gggcataaat 120
 gatgtcaacg tattccagct gcagccgctc gagcgacgct ttggtgccct caatgatatg 180
 tttgcgagag agaccatgat tgttgataag gatctcccca tttgccagtc cccaattgag 240
 ctgacgacgt gttatcgctg tattttacag gccagcttct acggtgactt ctgaactcac 300
 tttggtgctg atgacaatgt cgcttcgttt ccacccatat ttcttgattg cctgccccat 360
 cacaatctcg gattggccat tagcgtagct ttgtgcgtca gtctttgtat gtttacagtt 420
 cccggccagt ggctggccta cttttctgcc gtgtcgaaaa agttgatacc gcagtcgtac 480
 gcctgcttca tgcatttgaa agcaacctct gcatggcata agtcagcctt ctccctgct 540
 tctactgcga caatttaaaa cagtaccgtt gtcgacgtgt cctccgaagc tgtgcgaaga 600
 agatgtcaga gccagacct ggataagagt gtcgggaaaa ctcacgttaa ccaaccaccc 660
 agtcccagcg cagagacatg caatcccag ttgcctacgc ggcggtatat catgtccttg 720
 ttcttggttg gccacgcat attgatcggg aattaagagc acaacggttg gaaaataatg 780
 agggtttaat gcggttttac gtgggcacac accttcattt aaaagggcg tccctcactt 840
 caatncnnct tggcaattga cgagcctcgg cgaaatactc ggagggtcga aacggtctcc 900

acgaggctgt ggccttgggtc gctctggagt tgttctacgg agccgcgact gcgcccaccc 960
 accgcgggag acagtcgcaa ggtgaggcag cgacctccat ctacaccacc cagaccagca 1020
 tcgatatata caaaaagtgg accctgtgat ggcgtgttga gtgggggtgaa agacgccatc 1080
 gctgcttcag ttcaagatga accgaacgcc caatcacctg cgagtcatgc actgatcgct 1140
 gccggcggga cgtttgaggg ggcgagtgtc tccaacctcc gcaaactctc caattcaacc 1200
 gtcttgacga gttgcttttt tcggttcggg caaagcgatg aatccgtcca ggggcgcggg 1260
 taaaaaaaag gcttgcgatg gctgcaaagt tcggaaagtt cgctgtggtg gaggggaatac 1320
 cgtgtacgcc ctgcctgaat ggcgcgatcc agtgcaccta caagcgcatg caccagaccc 1380
 gaggtcctca gagactgcgc gccgcgacga ggtatcttat agagcaaagc caacagacgg 1440
 agacagatca accctgctca ccgagcaacc acgatgagac tcagagaggt aatcttctac 1500
 ggccagctgt attctgacgc ttactaaggc agatgcagtg taccgctgag tgcgatggng 1560
 ccgtgcttat attgacatgt ccgatgtacc cgttggggccg atgc 1604

<210> 2930
 <211> 6917
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2930

gaccagcgag gaagagaagg gcgaatcgaa cgtcgcgga aaggttcctg tatagtggct 60
 ttgttcagcc atcacagatg gacaaagggg ctgagaggac taggtacat tccacaaaag 120
 cggatttggg aattggcgcg cgctctttta ttaagagcgc tgctgggatg cccgttgcta 180
 gggttatcag cccagagct ctgaatgtcc atgcgaggct ggtgccttgg atgagagcgt 240
 ccacaatgaa actgatgact gcgccgccga gcccgccggc cgcgtagacg atgccgttgg 300
 cgattccgcg cttagctctg aagtactgcg ctggtgtgac tgagacgacc tatatgaaag 360
 cgtatggtgg tcagaaccac aggaaatccc ctcgtttcag tcgagagtgc ctcaccataa 420
 aacatagact acaataatca gcaaaccagt actactctct taatggctat gagattcata 480
 cctgatccca actcccataa ccgccccgcg ggtaacaaac aatcctcaa tactcctgag 540
 cgcgaaacccg ctcagaatct cccaacacc aaggaacaca atcccagca cgccgcagac 600
 ccgcgttcca aacttgcgaa tcagcgtcgc attcaagatt cccaggaacg agatgcaagc 660

cacagcgaac gagccgacaa atgcgagagt tgacgcagac gagactccgt cgttcacgag 720
tgctgcttgc agaatgcccc aactgtagga tgtcccggtg aaccaccatg tcaacactgc 780
gcagccggat actgccaccc atccatagcc gccgtctggg agctgcgagt caacttcggc 840
agatgcttgc atcatgcttg tatcgtgggc ggagagcggg gaagggctctg ctcgatgcag 900
gcgttctcca gtgccagtcg tcgaggacaa ctccacagat gtggctcgagg actggacggg 960
tatcgccatg attgtgatgt tctgcccgtg gcaggctgag ggaatgatgt tgatgagtat 1020
gagaagcagt gaggtgggag tgttgaacct caccagcctt tatcgttcca tttccgggtg 1080
tggggctcgt ccgtcacagg gcgtgttgct tagtgagaaa gttgatctga ttcttttctc 1140
agtttccggt aataacaaga tgtggataca tatagaagat gtgggtggacc tttaggctta 1200
aacaagttaa gtcttgacaa gagtgtcacg ctactgtctt ttcgttgtca attagtatat 1260
ttactctcca gggtcgtagc cctaacaagg ctacatcta ctgtatgctc ctacagtcaa 1320
ccgaccacgt ataatacaata gtccagagac aacagcgcaa atttgatact acacgagggc 1380
cgggcagctt atcgtccagc cttgggattg tttccgtata agactcatac tttcatgaga 1440
taggcttagc tagggactct cgcctgaagc atcactgcaa cgagcttcag ctttatagct 1500
atttacttat tttccgtag ttcgatgat atatggcctt tacttaccgt aatcctgggtg 1560
gagatgaccc ctggattccg ctagaatagg caaagccgag gacactagag gcaacgattt 1620
cagaggccaa ttctggatgc tgagtgtttt ggcatgagct gtcgagcgtc cagacatcta 1680
gcccgcgaca tgggtccgtat cgtgtatgtt tgccagaatt taggttttgc atacggcagt 1740
cccggtggtg tctggatttt ggagtcaaag gcgatcggat tctttagtga ttcacaaact 1800
ctttccttcc tttctttttt tcagattcat atcgacggct tctgctgagt tgagctgtac 1860
ttttcaattg aacgcacagg agcagatcag ctttctcgtc gtctgcgac accgctgcga 1920
ggcattacga ctgacggcca tttcaatgaa actcacacat tctgcaacgg gcattcgcgg 1980
tttcttctct tccacaaaga tcaactattgt tatcttcaat caagatgcgg ccataagtgg 2040
caatcactcg tctttgtagc ctggctcgtc agcaaagaaa gggttcgtgc tctggacctt 2100
gacatcgaaa acgaaagtaa tgtcatcgcc atcatagcaa catgcacaac tgaatgatac 2160
tggttgaaac tagcgtcgat aaaaaatgcc gctagtacag tagcatatga aatgatgagc 2220
caataccacg gcaacgaaac aggacagatt ccaggaaagg tttccgagtc gtgggtgggaa 2280

ggtgcagcga tgttcatgac gctgatccaa tactggtact ggactggagg taccgtctat 2340
 agcgacgtca cgagagaagg catgctctgg caaaaaggca gagatgattt ttttttcccc 2400
 agctacttct ttggcaataa cgaccagata ttttggggcc agctgctatg acagctgcag 2460
 agctgaactt tgctgagaag gaagaccagc ctttgtggct ttcacttgcc caggggtgtct 2520
 ttgacgcgca ggtttcgagg tgggatgaga ctgctgcgg tggtaggatg cggtaggcaga 2580
 tttggccggt ccaggggtggg tatatcacga aaaatgccat ctggaatggc ggattgttcc 2640
 agctcgccgc gagactgggc cgctatactg aaaatgaaac gtacattcgg tgggaggaga 2700
 agatatggga ctggagtgcc acgacgcccc tgctcaagtc ggataactgg actattgctg 2760
 acacgacaag tatggaaaat gattgtcagg accatggcga ccagcagtgg acatataatt 2820
 atggcactta tagcgctggg gctgcgtaca tgtacaacct cgtaagtgcc ttcatatcca 2880
 ggtgagcgaa acgactgaca ttgtggaaga ccaatggtgc ccagaaatgg agagctgcaa 2940
 tcgacggctt actcgcaaca acatgcaaca acatggagaa catttatcgc cgaagatgcc 3000
 atgtctgagg tctggtgcga gcaaaccatg tctgtgacc gcaacagaga catgttcaag 3060
 ggcttctttt catcctggct gacatttact gccaccattg ccccatcac cgctagtgc 3120
 atcatcccca aaatccatcg atccgccatt ggagcagcta gacaatgcct aggcgggcga 3180
 agctgtggac gtcaatggaa cgagggcgac tgggacggta gcgcaacgat ggaatccgac 3240
 acgagcgccc taagtgtcta ttcctcatct atggtggcct ttaaggacg gagcgaggc 3300
 cttgaccac gcaacggacg ctaccagtag aagctactcg gactctggca gaaggaatgg 3360
 taagataccg ttcactaagc gtctgtcgc ggctcgagat agactaagcg caacgtttgc 3420
 gacaattcta ttccttgctg cgtggtttag agggcttggc tgggtgctcg atgggaatga 3480
 gcaggtagag tagttgtaat cgagtttctt gttctatggt ctaagcagcg ttcattttca 3540
 cgtcttttcg tctgctttgc ctgttcgttt ggcgtttgac tgttgagcat ggtgttcgtt 3600
 agctctatcc agagttggtg aatttctggc gcattccggt acattcgagg atttcctgc 3660
 gagatctatc aatatctgat agacggaata atgtaacgaa gctgagttga tgtcaatggt 3720
 ttctggtcag tcggtctggg attgttgtaa ttgtaaagaa tagtgctggc ggtgaaaagc 3780
 aaacgagcgc gtcttcatcg gctcgggtcc gttccgcgct gagattcctc aacactgaca 3840
 ctaacagtgg cactgacact gtcgggctca gtcacagtgg tgacagcaac agcgagctgc 3900

gaggccatta tccctctcag tcagcccatt caatttctca ccagcccttc ctcttcgcag 3960
tgttactcca gtgtttctcc ggtgttgctt cccctcacca cttttctctt ctcttcgcga 4020
cctcccagct ccaacaccag aactgtttca cgaccttcca cgatttgatt atgttcctaa 4080
attcttgaat caggcgaagc gattaactgc tagacataca accctaggct ttgcacatgg 4140
ttttctctcg cctcacgctc aagggtctacc ctgcgagacg aaccagccc tccaactcct 4200
tctctttccg ctcggtgttg ggtgatcgtg aacgcgacga tgacagtcgc aattcttcca 4260
gcacggcgac tgcgaagccg gctagctttc tgattgtgtt ggagaatccc gaagacgtta 4320
cgctgggagg actggcaggc atgatcagag cgaaatggag gaaattgagg cctgggtgctg 4380
agtgaagtgtt actcttaatt gcacaatttc gcttgctctg gtgattattg cagtcgctaa 4440
ttgggtgctc gtaccagacc tctctcgatc aagaaactgc tagacgatga ccatgaagct 4500
gacgaccttg ataccgatat gactgtcgcc gatgtgtttg ttgataaggg gaaagcgcgc 4560
tctgacggac atgaccaacg gaggactgtt cgcgtcattc agaagccggc cggaggcgga 4620
gagtcgcctg tgcgattccc ctcggttgct caagactggg atgcggcggc cgagcactac 4680
gaaattctgc gtcagaagaa acaaaagcag gaagccgaat ctgccgtcaa aaaacttga 4740
gctattacgg aagagtccgg ccaaggcttt ggatcagcgt cgccttttgg agcaggtgat 4800
tgggctgatt atacaccaa tccgggtccat cgcagagata ttcccgctc ctcagtggaa 4860
aaggatgtcg agatccccgg ctcgccatta cagtcatccc agccgatagc caagtcgcta 4920
actcgaggaa tgtctcaaga tctcaatggt gaggggttga gtgcggcgca aggccaccgt 4980
gcgggaagtg aagagctcgg ggattcccct ctatctctc gcgcgacaac gccaaaggaag 5040
cggctctacc ccagacgtgc ctcagtacat agccaggcgt ctgctgatcg atctgatgcc 5100
ggggattctg tcgccgttga ttcacccgcc ctccaattaa cccgtgaaca tgcccactcg 5160
gtgtcaccgc agaaaagacc tgctctagag gcgaccaaac ctgatgctgt tactttagct 5220
gcagaaacag aaagtgaatc tgattctgaa tccgatagcg atgacggctt ggagactagt 5280
gatagtgaca gggcaagtca ggacaaagat ggcgatactg caatgcgcga agctactcca 5340
aaacagaaac cagagtctcc cataactgcc aagaagcctg atgaggcaac cacacgtgcg 5400
cctgctgtaa ccggaagtca acctcgtaaa cggaagaaca gtgccgatca gttgtcccct 5460
aagaaagagc cacgcttga taggactact actactctc cagagaatag tgaaaggcga 5520

ggcagcgaac actctgcaga cagaccgcag ttcaggccgt cggaagact acttgtgagg 5580
 aacaacagtt tttactggaa tcggcgcgcc gcctcacctt tacagatcga acatcagagc 5640
 ctctagcca ggggctggga ctcgcatca cgaagagccc gagcaagaag ccatctgccg 5700
 ctaccaacct ctctcaggag tcgacacagt ctactggagg tgtcccacaa agcacgccga 5760
 taccaacgag cagcgcaccc accgtcagaa ggggatctgt ctcgcgaaac gtctcaacac 5820
 cgacagatct ccatacacccg gttgataagg cgaagaacct acattcagca ctacgaaagg 5880
 actccctcac aagctccgcc cgccgtcttg tttctttcgc tgaaagcgat gattttcttg 5940
 tcgcggtatc gcaaccgcga ccaacatcca cccctatcat aaccacaaag ccctctacca 6000
 gcacaccggc gtctcagact cctagctcgg agaagagacg ctctagcgtc tcaatggtct 6060
 ttctctctgg agtttctatg gaacgcattg ctcaatatga acgggaagcc gaggagaaag 6120
 tcgagcgtca gaagaaggaa agagcggttt ttgaagaaaa gatcaaggcc gctgagaagg 6180
 acaatgcaaa ctcggtagac ttaaagaaac ttaaggccgc gtttaatacc tggcagtctc 6240
 ttgtcagcag ccgtagcagc caaaggaagg gcatcgcaga gcgactcgag agactacaag 6300
 ccgagctgaa gaagatggaa gaatcttcaa ccaatgtgtc atctcagggt aaaggaaaga 6360
 aatctcagga gtcgaagcct gccagatctc agcaggcctc aaagaatgat actccagcgt 6420
 caaagacatt gacttcgacg cccgtcacca acggggacag taaaatgtca gtaacacata 6480
 gtcggttg gaacgcgatt aacaataaat ctcttcaag cgatcagaag tccgttacc 6540
 agaccattaa cggaaccaat cccaagtctg ctactagggc tgcgccaag gaaccgctc 6600
 cgcgaccga ggcaaccaga acgctgtcaa aagcatctca gcctccttcg acacaatcac 6660
 gaaactccac cgctcagaa gagctcgact tgctgcatg aaagttcaag cccgcgctac 6720
 tgccaatgct acaaaaaagg cggccccca aagccagttg aggtatcaac ctgctctgag 6780
 agacgtcgca gaagaagctc tctgaagatc ttcgctttga tctgagtctg atctgcttga 6840
 ggcgaagcag acaatatccc gttctctgta acactactgc tagcgtacaa accaatcaca 6900
 ccctcgccac gacttaa 6917

<210> 2931
 <211> 645
 <212> DNA
 <213> Aspergillus nidulans

<400> 2931

accagaacc aagagatagc atttggggag gaggcgcat agagatatct ggggaaatgt 60
aataggcatt gatacgtgac gtctctttat cagacaaagg attccgaatg atagatatag 120
acaagcctta taaagcaaca ggaactgccg atttcgtggg caaacctatc tccacaacta 180
tccttatgtc cccattttcc aaaattccta gccatcatgt caaaatcagc gcggaaattg 240
agcgtggact cgctgaggag gctggagacc ccacagaccg gaacggtgca caatgcatac 300
agtagcgtgc tgcctagaaa cgggggtctt gctacgatcc tattcatgtc actctccatc 360
gccgctgtcc catacggaac cggcagtgcc ctgatgaacg cggctctatgg aggggggtcaa 420
ttgtccatgt ttgtcgggct gctcgttggtc tgtattctgg atggctgtat cgccgtctcc 480
ttggccgagc tcgcatcacg gtacccatcg tcttcgggag tatatcactg gtcttattgc 540
ctggcaaagg gccgcaagag atccgcttcc tctccttcat cacgggttgg atatggctga 600
tcggacactg gactattacc ttgtcgggtca acttcgcgtc gcac 645

<210> 2932

<211> 1772

<212> DNA

<213> *Aspergillus nidulans*

<400> 2932

ttgagaaaag agaaaggata aaaaaaata aagatagaaa tgacaaaata caatgacgta 60
agacagaaaa aaataaagaa agttgtataa agcaaaatta taagatcacg agtatattaa 120
tgaattaaca tgaatgatga atacaattaa tagaagaaca agaaatagta atgatgtctg 180
acaaagaaag aaattaaacg agaacaataa gaaaatgaaa cacagaaaag atagatagat 240
aagaagaagg gtctgaaaat atattttaag gaaaatgaaa agataaagtg ataatagata 300
taaaaaaata aatagaagag agtggaaagt caataaaata aatagggtgta atattgccac 360
agcaacagtc acattgtaaa aatatgagct ggtcaaaata acatctacgt aggactacaa 420
tgctttgttg gattctatcg agtgaagca gaaggcttac atggaactcg ctacagtata 480
tgcttagaag aagctttaga acctaaatgc tagggcttgg ttgagatacc gcaactaatt 540
ttcaggaaag gcccgaaagt cctccatgcg gagccagcaa ttggcatcat ccatgatccg 600
agggtgggca gtgggcactc actactgggt ttaattggga ctggggcact gcgagtcttg 660

ggactggcgc agacttgcag tgggtccgca catcaagcgc tcccctcagc acccgaggcc 720
 gatctccctt catccctctt gttgagcagc tgacatttct ttccaacact gactacgata 780
 acgatcgact ggccttattc tatttgcttg cgttctactg ttgccatttg tcgctgctat 840
 agcctccatg ctgagccag acttctgact ccgtcgtcaa acaaccgcct gcggtccgac 900
 gtttcacgcg ataactgaac catcgtagct atgacctagc cgcactactg gacctgcctt 960
 ggacgtcgaa ctctcacctg cgaacttga ataacttgtg cacggcccgt cctctactgc 1020
 tgccagactc aatccggcct cggtagtcta ctacgctta gaagcctagc agacctcaac 1080
 cactacggtt gagaatcaat caaggctgtg attcaactga cgcgcctcca aatgggtgacg 1140
 ctcaattgga gtgtaatgcc ctttgccaac gtttccctcg cgtctgaaca gtcagcgata 1200
 actttaaatt ggtgctgcta gccacgatg cgcctcgcct aatcctacct gtccttggt 1260
 tgtgagtacc ttcagccttc gttttcccc tcgttgctac ctgttaagag cgcatttggt 1320
 tcaactggcc tctatcacac tactgaccgg cgcgtatgca attgctggca tcgtttcgct 1380
 gtagtgcttg agatctcttg agcggtacac cagccagccc gcacttatcc gcctccatca 1440
 acccacctca gatctttgt atagccgccc ctgacatcgc gcccacacgg ccttaggcac 1500
 tctatacgtt gtatttctat caaatcttcg catctttgag atccgacaca tcgacctttt 1560
 gagtcgactg gagacacata tatcacgttt gcctcgaaat aaccgacagc tccatcgctc 1620
 ttgtcgatta ttgggtcttt agcacctgcc ccagaaacaa gaaactctgc cagtccggcg 1680
 gcccttggtt ttgtctctac ctgcgaaaat ctagacaagg agaagctcca gctttaaggc 1740
 gcaaaacaag tatcttccag tttcagattg aa 1772

<210> 2933
 <211> 1979
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2933

cgggtgcaat gcaggggtac gtcgattgaa gctttggcgc gtgttggtta cctgatctgc 60
 ttcccttttg ggaccacttc ttggcctcgc tccctgttgc ccttatctct tttgcgtttg 120
 cataatctcc catgttctct ttcttattaa ttatgcattt acttatttcg acctacaaaa 180
 gccctcgacc ctgttgctga agaactctcc cttaaacaac cccaccaaac gggcgatcgc 240

cacgccaaag cggctactcc agatcccgat gtcgcggaca ttacgggaac cacttttgta 300
caagagccgg agacagactt tgaagcggga attctgcttg acgcgcttcg tgacattgag 360
caaaacggaa acgatgtgct ggagctcctt attcctagca agggcagatt ggtggacgcc 420
gtgaaaaaag ccaaccagct cagtgacccc aggaacactc aaagcaagcg cctgctccgg 480
ttactcaaga ttctcgatga agatatcaaa atcttttgta gccataccta tatcgacgtt 540
gatggcgctc ttcgtaagggt ctcttctgca cttgccgata ggcgtgagga cttggaggac 600
tggagtccgg ccccgatttt gcaaattggca aactgtgcac ggttcgcatt cgagatactt 660
ctagcaggca caaatccaaa ctacagagg caagcaatca ggaacatcca aaaacttttt 720
cctcgcccggt ttatgacggg cctagctggc gctggagagg agaaagaggc cgggtgagagt 780
gttctagaaa aagagacttt gaatcttgct ttagagattc gcaccagtc tttgatctca 840
caattggagg ataaccagga tagccccgggt tccgattcca agaatttcgt cagactctgc 900
tttttcacgg attcgtcgcg aaaatcgcca ttgcgcggtt tcaatctgcc aaacttaagc 960
aatgctgatg gactcttcc cgcacagtat accgatgacg ttcagaaccg ctacaggagaa 1020
atcctcctgg gcgaaatgga tggagtattc gatgtaaag agttgagaag ctcttataat 1080
tggcagcgat tegtcttgca cgcagcgcat tgggtccgca aaaggacaga tgaactacat 1140
gtcgaggatga agaagcggat aagcacacag gctgttcgct acacgttatc taacgccaag 1200
gcctccagct tcggcagcac attgggagct tcagaggcag aaccagtggt tgagcttcaa 1260
gaagctggag gagataccac gagacaggat gctgttcgag atggattccc tgcaggacta 1320
gagccgcaga cgcaaccgca accacagcaa gctgagtctc gggatgtcca tagggatata 1380
gagcggaggc gctcttcgag accgtacgtt accctccaaa gctgagtcca ttgtttctaa 1440
caatcttgca gttcattctt gaattctgct tcaatccaac gcattacaca aagacaagag 1500
cgctccgat ctggaaccga aacatctgag cgtcgccaac aacctgatac tgtccagcca 1560
ggaacccgga cagggaacga actgcctgct gttgatcgct agataccctc aaaccgctcg 1620
totcaacata ctttgtttca tgagcgcgtc ccgtctcttg atgatggtcc cacgctgggt 1680
actgaagaac ctgagctaaa ttttggcgaa gattcggagt ttgccaacgt agacgagagc 1740
acccatatag agagatctcg cagcccttct gttgccctta gaaggacagc gccttggcga 1800
ccggagccta cttccagcgc tcagacgaca gacagcttga tgccaactca gagtcatgat 1860

gtatgggagg ctgtcaagga tggtttatct agacacgccg gtttcgagcc cacgccgcag 1920
 tgttacaaaa cgattcataa cgcaccaacca gatgccgcgc gggatatgccg atcctacat 1979

<210> 2934
 <211> 820
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2934

tgacttgtat atcgcagggc catttgcccg acatgtactc cgatggattt tttactcaag 60
 tttgtgtcca tgctaccttc gaattggccc tggctcacat catttagtac cttcatagtc 120
 gcgagataat ctgcgacatg catattgcag agcattaaag gttgggttggc ctacaaactt 180
 gatgacagct gtcagggact gagagtcccc tagcgtacgt cggcgcgacg tatgaaagcc 240
 ctcataaggc ctggcgacat agatacactg ttcagtcata tgaacgcgaa gccagccgct 300
 ctggctctta ctaaccccggt tgtgcccatt gctcattctc aaggtaggct gggctcgcgg 360
 gtaagtgact tttttctatt ttgttaatgc tatctttagg caaaattccg gaatcgcaac 420
 ctcaacttca cgcagccttg ttatcagtac tcgacttctt tcgtcaagct acaacactgt 480
 tagtcatgct atgcgatgca gcagaatctc gctgacaata tcagttttgc tgacgatacc 540
 cgacatcgca ttctggacta tatecttcgt cttccactcg ataattcctt gactcaagat 600
 ttcacaattt gctctgcaat agaaagaaca ataactgccg tgctcgatgc tactaccgat 660
 gagcatgctg atgaactggc aactcactcc tagactctcg agggtttatt tcaactaacag 720
 cggacaggcg actaatattt gcaccgctgt tcattccaca ctgaaagacg cagagctgca 780
 gagtgcactt ttggagcaca ttgcgccggt gaatgactgg 820

<210> 2935
 <211> 1358
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2935

cttcttcaag accggcaatc tttgcgtttc cgatatctga ataacgtag acttagtcag 60
 acaagggtga cggttaacc acttgaacgg tctaggaaag acagcagata aagaagggcg 120
 aggaatggga cgagcctgcg gtcaaacttc tttactacct gctgctcctc tacagctgta 180

tacttcggca ggcggggacg atagaatttc ggctgcgcct cgtcgttgta attgtactcg 240
tcggcatcat cttcagaaaa gcgatctgga acggtgccaa aatcagtcctg aagcttcaac 300
gaactatttc ggccacgcct tgactgctca tccaccgatc catcagacac cggggtatat 360
tggtcattcg atgttgatga gatggaagct ggcccagcca aggatcgaaa agacgccatt 420
tagagaagag ttggtatgcg tacgcaagct aaaggcccat gactcattgc acgagataac 480
tagagaaaga aaaaacagga aggaaagaaa taggacagac agagcacaag agcagacgaa 540
gagtataaaa aaaaaaagaa ataggggcgcc tcaagcttcg gggaggcggc acatgaatcg 600
actccctggc cagcagtgcg attctcgtga tagcaccttg cgccaacttt gagccaatca 660
tgttctgac tacacattag taattcacca attaactact cccttaacgt aaaagcaaca 720
acaggagcag atatccgcag tactagggtgta gaaaagagcg aagaataaaa tcaaaatata 780
cgagatcctg gtctctcatgc gctatagcga cgattagcaa cgggttcggt gtgagtcgtc 840
agaaacgccc tctctcagc gaccaacctg gggacggtag gagtcaataa tgcgacgagc 900
tcgcttattg cctttgctct cagtatgctt ctttccctg ttattctcaa ctgatgacc 960
tttagcccaa gtgtctgggc cctcgtcaaa atggcgcttg cgaccccata gaagctgggc 1020
tgtcttgctc cttgcaatgg cgaaggtctg ttctagggtca ggaacataga agctgtcaga 1080
catgccgttg gcatgaaggt agcgaagagt gttctcagcc gagtgcgga ggaagcggac 1140
ggcgctgaga ctgtctaccc cttctctcgc ttttgtgtta aagtagtctt ccttggcctg 1200
atggtagaca tctaaaagac gcgccacgcg gacatcaggc ttgcacgctt gtctatcgt 1260
gctgaggggt tgtggtagggt atggggttgt cctgatcgta agcaggcgaa tcggggaagt 1320
ggcgtgagta ctgccatcg atgtagaagg ggcaacag 1358

<210> 2936
<211> 1429
<212> DNA
<213> Aspergillus nidulans

<400> 2936

aagagcatga aaccaacata tcagtcagcc cgataacggc aaagaaagct atagagtaaa 60
gatatttgta gggacctacc ggcgtctaag cctgcaataa tgcagtacgt ataaacttga 120
gcccaattgt cactagaaca tcgcaggcac aagcagagcc gacatacaat tagcatggaa 180

caactcatca ccccttcccc attcctacag ccacaaatgc caccaggccc tgcaacgcct 240
 acaggcactg ctcgatcata atcatgagag atctttcgag gcactcaagt cgacatcgag 300
 catgatgctg tcgtcagatt cgagacccgg tacaacgagc tcgggagcca tgaaacggaa 360
 cagccgttat ttgacgcgca actgggtgag tcaccgggta aagagggtgct tttgtatcac 420
 ttgaagggcc tgcacagac gcttgagaga aggtatgtcc agtctgaacc ctgtcggcgt 480
 tgctgataga cggagtaggc attgatcttg ctctgtatga gatgaggagc ggctttgagt 540
 atcgtgcttg ttcggtgctg gctgagtgtt tgcgtgtcat tgttgatcag accagtcggt 600
 gcttggttgt ggatgagatt cttgaggtga tgggcttaga gggcaaatta ccctcgcagc 660
 cacggtgagg ggctaagcca attacatcag agggattcag aataatagga gcggtgtatg 720
 atcctatgct aatttgctat ggctctccga gttaaagata cctgtacctg gcgagatttg 780
 gtacgagctg ttatgctgtc caggccgtga cttccccag acaagcatgt ctcaatagcc 840
 gtgatagaaa cctagatatt gacagatatt cctagcctga ggtcttgaag aaaaattcta 900
 gtcaacgaca tttgaaacct aagcattgag gttgtctgcc gcattccctg ctgcaattta 960
 attgcctgga ttctaccacc ccagctctga agagtttact ataatcctac gtgccaaata 1020
 ggtatttgga aggttgatcg ttccaagccc ataaagcccg aaggattgaa accctcactt 1080
 tetgaagtat taataggtat tattccctgg aaaacattac caaaccggc ctattttctt 1140
 ccatttttgg gggcccttaa aaaccgggct ttgacccaaa ctttttgat ttttccgaa 1200
 gccttgagga taatcaaaat cactttaaaag gggaggcctt ttgtgagggc ccccggaatt 1260
 taaccaacac ctttcggat atcactttta tttttccct aatgcccctt cctcacttag 1320
 tgtttttggg acttattttc ctctaagtga aagggtcttc tctttttcc ttctttttga 1380
 ggggggtttt gttttatttc caaattataa aatttcctt tcttttgta 1429

<210> 2937
 <211> 761
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2937

tcctatggg tggagaaaag gtgggaggcc ttacctctga tggccgccta atcgccaatg 60
 ttttttggat cgctgtctgt cactcagatg gttcctgtaa gcgccgactg gagaccactg 120

tacagtagct tgcttcgaat tgcggcgccg catcacatct taacacgacg gccgacgaaa 180
 ctggaagcta taaaatggct ggcacacccc tcctagcagc gttattctcg gcgcctgttt 240
 cccagtctca tcttaccacc ttgttattac gttcttcgcc tacattcgta tcaaaatact 300
 gtgaagcagt gcacaatctc tccgtttaaa ccaaaccgt ccccgcatct ggatcttata 360
 ggtacaaccc ttccagcata agtacaagac atcagtcttg ttcaaaattc tggcaataaa 420
 gccttccatt tgctgcggcc gcctgtcact gaccattca acaggatata gggatatatgt 480
 gctttgagcg cctatagtac accaccatgt cgcagcatca gattcactat cctccccac 540
 cgactcaggg agcttcgtac tctcgtatgc cagcgtacca cacatagata atcttagggc 600
 taattatccc gcagaacctc aaaacgctcc atgtatgcca ttagaaacca gactttgtac 660
 atgaccagct ctcacgtcc cgtctagctt tcccaccgcc tctcaaccc tcccctggct 720
 ttctcatgc ttcttcgggt tatccgcaac cttccccggg t 761

<210> 2938
 <211> 996
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2938

ccctttttct ctcgaagcat ccacgtccga agtcgcaacc gcaacgagag cggcctcgcc 60
 atcattcccg tggaccggtt tgagcctatc acggatccca aactgtttg gaaatctccg 120
 cgctctggcc tggctctatc gcagcgttgg gaactaggaa tcgaagggcg agggttgctg 180
 gagatcagca gtgtgttggg tgaccaagaa atggtggatc cgggcagcgg cgcggttacg 240
 taccttggat ttgtgactgt caagggcgtc attgatggca aaaatgttac tggatatggg 300
 agtgcagagg tgaagtttgt tcagcggctg ccctagatgc ttgggtctat cgacgcaaaa 360
 cctgtccgtg ccgtcacctc ttatgttttc aagttattgt tagaattgca gagatcaatt 420
 gcagcgtcgt gctttcaagc accggctgtt ttaggaagtt tatagacaaa catatcttgt 480
 tctgaactt cgatgaattc ttcttttctt cgcgcaacat acatccccgg cctggtttct 540
 tactcccgac ccaagaaatg cagacaaaat aatgctcacc aagtcgaata tcgctgcgac 600
 tgtccgcaat accgtgcttg aagtgcgag agaagatcga cttttaccta atatactatt 660
 cgctgggact gcatagaacc gcgggtcctg cccagtccta acttagatat gcctcacgtt 720

agccagtatc gccctgacct atgtctctga agtatcctgc acttgccggac ttcggcggag 780
 tccaccgttt acgaggcagg aggttgaatc tggttgccat ggacgcagtg accagtatat 840
 ggtaccctgg ttgctgggca gacataacaa tcaccgactg gaggaagaag cagtgggtgtg 900
 gccgaagaaa gtaccaccga tgtttacact agagctaccg gtatacattc atttttcact 960
 gggttatcgg tatgaatacc gtgctgttgt tgttgt 996

<210> 2939
 <211> 2116
 <212> DNA
 <213> Aspergillus nidulans

<400> 2939

ttatatataag catgagtata gcaacagAAC tagatacaaa ccaacaaaat catcctacat 60
 aaactggtca ttatcaatga ctgggcctta aaaggggtgta gcgccatctg gaagcgagca 120
 aaagtatata gtagtattat actacttggc catgcaccaa tcaaagctca cagaaatcag 180
 atataaaggc cctgagcaat gaagtgggga aaagccctac aaagcatgcc acatcaacag 240
 caactggtgg ttacctggtt tttgcaccta atctatatat aagcttatag tttatttgtc 300
 gagtcctcag cagtccttgt atacaataat aaggtgatta gagggtgaaa gactccccgc 360
 accaccctcc tatagaataa tagtcataat ataaaggcac tgctggaggc atttgagtat 420
 attagcagcc tagttatctg gcacctgctt agactttatc ttttcttcaa tttatctctc 480
 tctatgcatg aaagaacatt attaaatctg atatggctct tcaacaactg gaagagtaca 540
 agccactatc aagaacagac agaatttctc aattgattgt ctggcacatt cagcattaat 600
 ttaatataga gcacggccag attcaaccta atgttcttat tgagatcttt cgattgttca 660
 taaccaagaa ttggatatatt gaacaaataa aatctgcata caagcaagga ttgtcggggc 720
 ttacccttta attaacataa gaaagaacct ctagagacct gatatttata cttattatta 780
 ctacagtatt taccagtaga aaggtctgct gcacaggcag caaatcttca agaacttgaa 840
 gaacaaggaa gtactctata tcaagtacaa gtatagacaa gcacccggag cttggaccat 900
 cctggtatatt agaggtggta ttcttctaga taatatagag attgacaagc cttaccagga 960
 catctcaaag caggctatgc agaagactta ctacagtcac ccagaacaaa gaagaagttt 1020
 acacctcttt atctgccctt aacttttagca atctgagcaa cccaaagctc ttcagtaatt 1080

ttcagcagct attgttcagt acacaagttt attttaaadc ctcttcaac aaaggcctat 1140
 gggccccaga ttatcggggc ttgtatgcca gatcttgac tttctgagaa gagttagcac 1200
 ggctgagcaa gctgcataat cttgtatcta attctctaag atatttaagt aaagggaata 1260
 ataattaggg cacaactgtg ttacagcaag cttctctgct ccacagctct attattcagt 1320
 gcagttatta tcaacaattc acagatatcc tcgcaatttt actcctgatt agaagggcta 1380
 ggcattgagaa taagtattag tctataaagg atgattttat taatcaagca attactgttc 1440
 tttcacagaa tgatccacgc agaagcatgt ttgaggctct agaccatctg gaaatagaca 1500
 ttgatggcca tctatatatt acttttaata cttactgttg gtccctgtag atgtcccaga 1560
 tgtcaaagac caggctagac aagatcagag ccactactc ctataatcaa gccagcttcc 1620
 ccagagccga cgcaggagag ttctatatta cattcaagag gctgacaagg gagcagatgc 1680
 tgaatattct tcagagaatt gacaaggaac tctacctata cagtcacaag acattttctc 1740
 tatagcacac agtaatcaga agcctctgga gcgaaagcaa attccttaaa atatcatatc 1800
 ttaccaacat gctatgcaga cgtttgaacc agcttgaaaa taactttgac tatgcttaaa 1860
 acaaataatt aaaccttgat gcttcaactga ctttctatct ccttggtcag gcctataaag 1920
 cactgggtta cttgcacagc gcactgttct tgttcaagat attaataatc ttgtaagatc 1980
 aagttcttgc tgctagcacc ctggatacag ctaaagtagc tgcattacaa aagtatatat 2040
 tattggcttt gagactgggg gagccaaacc gagtaatgca tggcaggga tctatagagt 2100
 gaatgcactc tgtagt 2116

<210> 2940
 <211> 1371
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2940

cgagggtcta cccgcgggtgc aatcgtagtg cttggatcgg cggccccgca cgctgccatg 60
 cccggagtag cgcctgatac ggctgcaaaa cacgcttgct gggatgatta agactgccgg 120
 taagcgactc gggcagcagt tgacatttcg ccagcgaaat attccaatcg ctgatggatg 180
 gacgcattgg gatcgataac atcccgcatt gcatacgcgt caacgtcgtc tgtcccttgt 240

ttgtgaatac accgggggtc caagccgctt ttgaggatga cccagagctg gaagaagtga 300
 tcagtaaaat gcacccgctg ggccgtatcg cgaatgcgga agaggtcgcg gatgcgggta 360
 gtttcttggt tagtgatagg tctagctata tgactggatg tgctcttctt attgacggcg 420
 ggtctacgct cacttgtctt gttttacgga gggttcgata acgtctgttg ctttcgtccg 480
 aggaaattcg ttacattctg gagcccgctg aaagtgcctt ggcggtgaca cgattgtacg 540
 catgaacatc tctggacata cgtggatact ggaggatact gaggatcagc tgtaatatag 600
 tcatcagact gcagtgccac cgtcaacgcc tacctagcaa taaccggcat aagctgctac 660
 atcaatgtcc tggaagtcac agatacgagg cccccaataa tagtactttt tgtaccaaac 720
 ttctcatac ccgtcatcat ctggttcttt gataatctgt acgaaaacga atacttcgat 780
 tatgggttcc aacctaacct tgaccccggt gtgcacgagc caagccaaag agaacagaaa 840
 gaataatact cacctgcccg attccctcat tcttgggggtg ttgctctctc caatggactt 900
 ccagtagaaa ggcttcaacg aaggctacct agcccacaag acacccttg aaaagcagga 960
 gtaaatcaga gcaagggcat caatccagcg ttaaaggcca aggcggatga ggcaaccaaa 1020
 ngnctannag ggctatgggc taagctggga atggaacctt ccgtttgatt gaaataaatg 1080
 agcttgggag cgtactcgtt tgtatctaaa ccaatcgtga ctctttactg gacatttaca 1140
 gctgacagcc ttacatgagc tgcccgtgga tcgtttcaac acagcctgct gacgccgatc 1200
 tcttgtcatt ttaaccggcg gaccactggc caatcgcgtg ggaatcgtcg attttcgtat 1260
 caatggtttt agacaaccat cttgcgtgtt tccactggtc gcctaactat agaattgggt 1320
 gccttgctta acgaccagca cgcatncacc tgtctcgcat ggataaaaat a 1371

<210> 2941
 <211> 1090
 <212> DNA
 <213> Aspergillus nidulans

<400> 2941

cctccaaact ttggtcgaca atcccccatg ctcatctctc gacgaagctg cttcacccgt 60
 ttgatgtgtg tctttactac gtctcgagag catgaaactg tttgtgactt ttgaaagttt 120
 tgcggcacac aatgcactca atatgctccg tctcaacttc ttcactatct gcctcctctt 180
 cttcaggacc ttctcggat cttgcccatt cttgtagaac atgctctcgt aacgtagcct 240

gatttgcctgc tcgtgatttt gctgcctgag aagcagcaga ttggcggaga gcttcgcgtt 300
tttgagacag gctatcctta taaatcttgt agcgcgggtc tcgcttcttg gcgaaagcca 360
caagggatct cacggcctca ttaaactcgc gaatagcggc ttctcgcaag cgtttgTTTT 420
ctttttccat caaacgacgg actcggcggg ctggagcctc ggagtaacga tagacgtcct 480
tccatgcaaa ggactttcta gttgagaagc tgccccatac agcgtaaaaa tcgcgacaaa 540
cttgagaccc gtcatgacgg gtcccaaacg atggatagtc aatactgtct acaccttccc 600
agcggcatgc catctcctcc tctgcgcaa gctgtgcgaa cgtctcgcgg aggccaccat 660
aaaatccaca gggcgcatca gtaaagtcca ttcgaggact gaacttgga aacaaattca 720
gaatatcggc agagctcgtc atgcgggcgt tatgcgagta gtcagccgcc tcgccccag 780
cgtcaccacc tagaaacgca tcacggtgcg agtcatacca cgaccgctcg tgggggtctg 840
aaagcacctc gtaggcgatt tggatttccg cgaaaagggt tgcgcccgt tcaacgtttc 900
caaaatttct gtcaggatgt agttcaagag ctttctttct atacgccttc ctgatcctgt 960
ggaaatagcc aatgcatggt cagctcgta tctagccggg acttgtttat gggaacaaac 1020
tcttcggggc acgcattctg ttccacatcg agaagttcat aataatcttt ctttgcac 1080
ttcctttcgc 1090

<210> 2942
<211> 1166
<212> DNA
<213> *Aspergillus nidulans*
<400> 2942

cttcggtagt gcagtgatgt tcgctgctta agacgcacca cgtggagcta tctgccaagc 60
ttatatcaac cagcctggta agggcccgat ccgagtgcga tcaactcgact tggctagtcc 120
atcttttcat cattcgttgg tcgtttcttg gtcaattttg gtcaagagtc gagacggcga 180
ggtatgcagg agccctggat ggatggatcg tcaccatac attccgtagc gaccacgggt 240
tgttatgctg gggaacatta aacattgcac agaaatttgg atccaatcca ggaaaaaacc 300
agattttgcg gtcttgaggt tctaagtttt cgttcctggt ggtggcgctc actggaaacc 360
tgctagtcgg gcaaggctga aaccgcccgc tcttccccag ctgttaccta ccgtatctct 420
gcagtcaggt ttactcagc tcttttcttc gtccagactt ccgctcgcac aaacaaaaat 480

aaacccgttc ggggtcttctg tcgtttcttc tccttgtctg tctttacttg gtctctgacc 540
 gtctgttctc ttcctaccgc cgacgatcgt tggcaacaca attgcattat tggctcacgc 600
 gacttcaaac gagtgaacga cccacgacga gtcgacgact cacgctcgct ctccacaggg 660
 gactacgata ttcgaatcat cctttcgtaa gaggaccaag gttggtacca aggttgtcga 720
 ttttatgacg gtctaactct tgtttagaag tcgctagtcg atccccctca ccctatccgc 780
 tccttttatgc tctctgagct catcaggtct tccccgagct gtcgtcactc ttttaactttc 840
 aatgtccgga cggcctggcc tggcagagaa gcgtctgtcg tcccatcgct tccagcaaatt 900
 cccggacact atgcctaata ctaacgatgt tacaattgat atccattga ccagtgtttc 960
 cagtcgctgg cagactgggtg cgcggaacaa tagcacaatt attcccaact ccccatcagg 1020
 gggctactcg gctggagcgg aacacaatgg cggcgccgag aaggcgaggc tgacctcgag 1080
 tcctcccagc agtcgctcg gtttcgggtca tcgcccgcgg aggaccatca acgacaaaac 1140
 cggtttgcgc atgaggacca gaagat 1166

<210> 2943
 <211> 1041
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2943
 aaggtcttac tcgcacaaca tgtcccatag tttgcatgct ccgggtgccg gcgcaagtat 60
 tgtcaagcag cggacgagga gcaggcggcg attgctggga tagtgcgacc aactctggga 120
 tgggtgtcca cgctcgctc gtctcgccgc gccataggct ccaaactgta tgggcaaatg 180
 ccagaaagac gtggatgagc agcaagataa tggcaacgta atcaaaccag ttctggggcg 240
 tcatggcgta gccgaaaaac catgcccga tcatcatctc tgtccagttt cggccttcta 300
 gaaccggcgg tctcggaag attttggcag gtttgccatt gcgaaccaag gtccgcgctt 360
 gttctgccga tggtatggcc cccagctctc tgtttttcca tgctggtaat agactccagg 420
 tgttgcgttg gcgggtggcg ccgactcgcg acaggccgctc tgtgaagtat aatgatattg 480
 ccaattccac agtgaccagg tcaagggtca tgtcaaatcc atttttactg gtatttctctg 540
 gaaaggggta gatccctagg atcctgtcga gaagcgcagg gtacgcctgg gtgtgttcgg 600
 tgtggtagtc aataggatct actcctgtta tatgaagcaa cgaggcatcg gatactctgg 660

gcgataacag gtcgaaccag ctaggttga tctgaatgtg cgtccâcaaa cctgggtctt 720
 gcgggtggaa gccagtcagg ctggtttcta agtagctagc accatcgagc ttggtctgta 780
 caacgttgcg tgaccggtcg ttgaggaagc cgtgccccaa aatgccgttt ggacctgcct 840
 caatgacgga ggtggcattt gcccatcgag catccacagt gcaggatcaat ggggctatgt 900
 tctttccttc cgcatttata tgcttcagta gcaggagacc aagagagctg gcatcacctg 960
 cagttatata tagtggaatt gtgagaagcg acggagcatg gggcacgaga gtgactcccg 1020
 cggccacttg ttgtgactag g 1041

<210> 2944
 <211> 3022
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2944
 gcaaaactaca agcacatgaa agatctgatg cgacttcccc aaagatcgaa cccccctggt 60
 cgcaaccgtt cggggactcg ggctgcatat atccccgcac ccaggatgta caaaaatccc 120
 tggagcagaa gccagccgag gccaatctgt cgcacatctt ggtcacgccc gtacagttgc 180
 agcccggtgga cgacgggaaa cactgctgac aggcccatgc cgacaaacat ggctgcacgg 240
 aatggacgcc agcgggggggt ccggaacttg gggaagatcg ataccacaat gcagccaagg 300
 ccaatcgtgc atatcatgga ccaatacagc ctctgcaatt caggaacgca gtagaagccg 360
 tagtagacgc taggaacaaa actaccaca atcagtccta caatgccaat gtagtcaaac 420
 gtgtttccaa tgcgcgccac cgtcggggaa tggttcgaga tagtatggta aaacgccgac 480
 atccctaggc aaaacgctgc tcccacgaag aagcagccaa aagcgcgat atcgccatcc 540
 gtggcggttt catagcgtgg ggcaagggcc cgataaagtt gaatggcggc agggattgcc 600
 aggacagatg gcaataaatg cgtgtatata ttaacagtct cgttgtgaat atatgtcagg 660
 gactggaacg agccgcgaaa cgaatacgac gccggtcgat accctgtatg gatatgctga 720
 ttatctcgct gccaatgggg caactcatcc cagtgaacga gtgacctgat agcccgaggg 780
 ggatcttcaa ggactgcagt cgcgacagag gctgtctgac agcctcctgg atccttctta 840
 tggatttcgg taggacgacg ctgacgaggt ggcacatcga ataagcaatg aatttgaggg 900
 gctagatcgc gaccagtaaa ataaaaagtc tagatgctgt atatattata gatgggtccaa 960

agtcttatta taatcttata aataattgtg tagtgataga aatagaagta ggaatagttg 1020
 aggctgttga gctcaacatc tgttgggaca aacaagacaa actaaacaaa cacggaagtc 1080
 gacccgagtc cgctccacct ccaccttccc cgcggtctcg tcgttgtgga tggttcagat 1140
 cacacaggct tgtgccatgt attgcacaaa tatcagctgc aagacgcctt cgttccttca 1200
 aatcccatcg tctatcttca tcacccggcg acggaggccc ggaactccgt tctgcatacc 1260
 atagctgacg ccattctacg gagtataccg aatgtcaacc taaattggct gcagttatga 1320
 gtggctgagc tccttcagca aaatggccgc atagccgcct gaaaccggtg gcggaactccc 1380
 ttgagtccgt aggattcgtg tcaaagggag attgcaagta tgagaccgat tgtgtagcta 1440
 gtctgagttg accgtgactg aattaaccgg attgaccgcg agattgctag atcacaagc 1500
 tcagaagaac tattacgaca agatcatggc taggtatatt gagttttgtg ctgcgccattc 1560
 caagaaccta gatgaggcct ggctgtctct tcctcgaagt gcctcgaacg atgcaacgaa 1620
 gaaccgcga gcttgcgctc cacagtcaac caaatgtgca gtgtcaccgc gtgcctgacc 1680
 tgccacagag ttatccaccc tccttctctc ctttcgcaag cttcgcgaag ccgtattggc 1740
 cactgcttcg accacgcaa tctcattctc ccagcgggtc catgtgttct ccatcaaggt 1800
 ctccattcaa gctcgacatc cgccgtccta ctttccctcc ctgcgccacc ttcttgacga 1860
 cctgcacact ctttctaacc cgttgcctga ttcggaactg aaggatcaca cttcgtatct 1920
 tatccttgat tatgcatgtc ggcaggagga tttgggtggc gctttcgaat tgcgggccc 1980
 tgcgcgagc caatataatt tccactcgcg cgagggtgat cagatcctac aagccatcgc 2040
 acatgacaac tggattgtat tttggagggt ccgaaaggag gtcgattccg ccatgcgcgc 2100
 aatcatgaac tgggcagaag atcgggttaa acaacatgct cttaaagcag tcgggaaagc 2160
 ttatctcggc gttgacattg catggattgt cgaaggctgc actggtgatt cgacttggac 2220
 atgggaaaag ctggcagaga gagagaaact aggttgggag aaagaaggcg atagggtcat 2280
 catccgaaa ccgagatcaa agccgaaacc cgagggaat cttacacca ttcaggagaa 2340
 gagcacgggt taattacgat gtatttgta attgcatagc gtctggagca ttgctggtgg 2400
 cgttcggtaa aggattgggt cgtaacactc taatatattc atacatgcca ccctgcacct 2460
 tcgtttgagt agctatctta ttcacagttt gaaatcagcg ttcggccgat ccaaatttgt 2520
 gtggcctgtg actggttgtc tggccacctt ttcgacaagc ccatgtttca actgcatagc 2580

cttgtcagag cacagctcat agactgtcgc tagattgaaa atcagactgg aaaaggagtg 2640
 ctgtgcctgg accagagtct ccagagcctc acgtgcctga gaaaagtcag tacttgggaa 2700
 tcttcataatc tggcaggcta taatgtacct cgcttagctg accggtatac aacagacaca 2760
 cagccaggtt ctgagaaatg atcgctcgt cggttccct gctgttggtc ccaaggatat 2820
 cagccattc aataactgca tcattatagc ggcctcata catactgaga aggggcttaa 2880
 atatcgctc gtcagtatcg ccgaagcct tgaatagctg cttgcagca tcgacatcgg 2940
 cgatgccag tagcagaagc gtcgctctta cctgttaat ctcttggtg attcttcttt 3000
 ctcagctctc catgccctct tg 3022

<210> 2945
 <211> 1607
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2945

gtcaatgcat tcccatgtga ggaagcacga gtgtacagtg tcagctcatg tgacgtgatg 60
 agagacgaca aatgcacccg tgtatcttct gcagtcggtc agtcttggtg taacagggat 120
 gctctccggt catcgatata tgcacagtcg gtgacaagtg catatcggct gtgtacagta 180
 gcatgacggg tcgtgtaatt actctgttat gtaagtagaa gaggatgata tgttaacaat 240
 agagtgtaga ggaaggatag atagcacctg tgatgcaagg agtcagggtg tagcaacaat 300
 agcgaataac ccaccaagta ggtatacttt cggagtaacc gcaaggatta acatcgtaca 360
 aatggagcca atagccgcaa atgatactaa gagcgtcttg cggtagcttc catgatctgc 420
 agcgctgac attgatatta tcaggattgc ttgtatgagg aactcacgg agaagggtga 480
 cattgcgaag cttgcggtgt tgatttcggc cccaaggatg taaacaatac attgacctgc 540
 agcggcggga cttgaatttt gccagcttgt gtttgatgac tctggagttt tccagatcgc 600
 agtacacggt gtcgttttgt ccgagagtag aacccacgt tctcgggcca tctgctctaa 660
 agtgataggt aaaaatgacc ctaccaacca ttagagacgg acttgaagat cttgaaagca 720
 gagacaattc ttcttaccba tagcacatac tgtgaaaacc tctgctgccc aaccataact 780
 ataccacccc agcagctctt tcttgtttgt tggccgggtg tcatcgctg ggtatcgtgg 840
 gagaagaagc ccaggctcag caattccatc ttctgcac ttagacgcaa tcgtgatggt 900

gcttatagta atcacttggg tttggaacac attcgaggcg cttttcttat tccagtctac 960
tctcaatgca tattcgctgt aagtagaaga tgatattagt gtatgacacg ggagggatcg 1020
tgaatactga tgaaaatcac ttgacaagac atgcttctgc aagcttttaa cttgaatata 1080
cgagaggaga taccatatac aatatgggtg tactcaaagc aggaagaata cctgtaatgg 1140
gtagctagcc ctagtgatgc aattatacgg tgtatgggct caggcgatat cgggctttga 1200
taacgatgaa aaagcaggaa cgcagcgtat tatcgagccc caagtagaat tattgggatt 1260
gtagtattga tattagtaag tacaatacac acataaaaga aatattgttg ctgtggaagt 1320
gagaaccgtg aggtgacgaa aggttgagga ggctaggctc catgagataa acgcaggctc 1380
tagccaactc catcaaggac gcaccaggca tcaaggcatc agattcatgg cttatctcca 1440
ctgctccagc cacacaaggc cgggtccgctc tgttccatgc atctgcatca cagcgcgccg 1500
caaaccgtct tgatcttcat cgtattcata tccgttgagt tgcaaagatc ctttcggtat 1560
tcttcccat agttcctacg ctcatatcta ttatactctg agacaat 1607

<210> 2946
<211> 3227
<212> DNA
<213> *Aspergillus nidulans*

<400> 2946
tatcctgcag cttgttacia cttatacctg aactgtaccg tggattttta tgcttttcag 60
ttcggggggc ctggcagcca ctggtagcca cttgctggct ttgtctgaat ctggggaata 120
cacgtggtaa gatttctgat attgcttggg ctcccagcgc tttgacaaa cctgacaagg 180
gactggcaac atgatggcca ttcgaagcac caccagtggc ctttactggt tctttttact 240
ctgtggctgg accttttgcg aattgtaaat gttgttggcc aatacatgga gacacagatg 300
tacggcaggg agggatttcc tgcacacgtc actgcactga tcttgaagca atgcactcgc 360
cagcccaatc tctaccctt atgcgatcga aatctaacag tcatgaggaa atatagatat 420
acatactttg aacgtctata cgagcggctt cgcgggataa aagtcgacta ccaccataa 480
acgtagcagt atagtagctt cgagctggct aggagcacac atgcaggccg tcgatgttta 540
ccacagtgc ctgtactttc aggcaagata ctgtaggtag atttgttctt tctgcaggct 600
cctcacatag gaccctgag ccccgatcat gttactagac tagctocacg tccatgccga 660

acctgactga cagcactcta ggagatccaa ggcgctgtga gattcgatgg aaagcttcat 720
 tcttcatccc attattattg gcttacgtcc ttctgccgtg ctgctctctt tttttattct 780
 aacatcccgg ctactgtgag gcttggcctt gatctatgtg gccgatatgg ctttcccgac 840
 tctgccgagt caataagaat gactcaatac tatgccttgc gccagactgg cccagtcatg 900
 tcttcccggt cagcttgctt tcgtgctaag atttccaaat ctatcttgga ttaggaatca 960
 accgcatgtg tcaactggcac tctgatgttc cagtcagacc ttaaaatcgc atctatcact 1020
 catacgaga catggggctc cctcttccga gacattagt taatcgctac caaagggttc 1080
 gtttgcaatg agttgtacac cttgaaccga atacacctga aaaggatgcg ggcgagtggg 1140
 ccctggatag cgctaacaaa tacgctgtcg tggatcttat tcgagaccac tgatggcctg 1200
 tcaaaagtac tggcggaatt ttgaccgctt ccccagaag tgtttgatgg tggaggacgt 1260
 tacggtcgtt caacaggctg cctagcagga cacaagccct tccaagcatc gcgcaaacad 1320
 tcgaccccat ttccccttgg gatcagagac agctatagcg cgctaaaagc aactccgcaa 1380
 acgtaatcgg cggtgcccg ctctacaacc gccagcaaaa cagaagggtg gcgataccga 1440
 gcttagcttc ccttgacgcc agccgggata atcgcgctta attggggaga ggagggattt 1500
 gaagattgcg gatgcgattg acccaacaat tggccgcaac cacagtcggg caatctctat 1560
 ttccctccct agagggatga tagacctggt ggtaacgcat caggatgaatc atgacacttg 1620
 catggtgaaa cgtgcaaccg acgttacttc ttgtgaaacg gaacttctct caacaccagg 1680
 atgcactttc ttgctgtctg gcctcaagc agggagtttc aaatggttca accgggagca 1740
 ctaggccagc atgcgacacg gacgattgca gcctgatgat cttcccagta cagctcaggc 1800
 aaaatggaac aaagagtcag gtaagagaat gatcactgac ctctcttgaa tggctggcca 1860
 atagggcgac agaactctgtc gctgggaata ttogagacga ggtegcactt ggcctagttg 1920
 ggatctacca gcaggattgc gacagggacg gggcagcaaa aacaaaagag agacgaagag 1980
 aaggggggaa acaaattaaa caaatgaaa acaaaaaaaaa agtaggcaat caaaagggaa 2040
 agaaaatacc tactccgtac aggcacatgg gccttaaate tggacttgta tccactcaca 2100
 ccttactct agaggatccg taccgggccc ttcccaata tgcttcgttg atgggaaatg 2160
 ttgaacacaa gcggatatcc ctgactactg atcgcatatc gtctattcct tctgcttaag 2220
 atttcaaaag tacttctact cccgtgatcc tgccctgctt ttactacat atgtgagtcc 2280

aacggaaacg aaaaccgata tgtttccctc atcactgatg gatgaagtca tggcccaaac 2340
 attctaccct gctgatgacg aggtcagctt cgatgcacac tcgaagcggg atgctctgtc 2400
 aatgtcccaa cccctccaaa gtgacagtca acaagatatac gtggacagga acttaggctg 2460
 tatcaacatt gggagcgaga ttgagggcga gacgcggggc gccacaagac gacggatacc 2520
 agtcgcagtg ggtaatgcaa aatatgcaag caactgacac ggctaacagt aatagtgcac 2580
 gagatgtcgg agacgaaaga tcaagtgcag tggcgatgtt ggtgatggcc agggttgttc 2640
 taactgtcgg agcgctggaa atatacaatg tcaattctta agggcaagct agcttcctca 2700
 acccactaca acccttgac ctttcattac gacagaagag ctaactggat gtaaagggtga 2760
 actcttccat tttgcaggca aaggttcccc caggacctgg gtggccctat cctgcaagtg 2820
 atatggcctc acggatatac gtgccttcg caacccttc taaaatggg ggattcccta 2880
 taaatcattc caatcatcgt gtctcctcat catcaagggc ttcagactac ggagtgacct 2940
 cagacactca gaatccctac ggtcgacagc cctttggcat tgaccctacc atcaattatg 3000
 atgaggagtc ctcaagcccg tacaatgttc agacatcttc cgcctatatt ctggcaaact 3060
 ctctcaggt atttatgcca aattattgcc agctgggatg gaattccaaa aactgggccg 3120
 gagttttgcc cggggagtcg agctcccacc gaaacatgtt ctcaaaaatg atgcagagaa 3180
 ttcccttaac catgcctatt tttatatgaa cccccggaca ggggcaa 3227

<210> 2947
 <211> 1945
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2947

acacggacat agccgctgac ctgtctacat ctgcatcttc agctggcgta ttgatccact 60
 gcacacaagg aaaggaccga acagggctta tagttcttct ctgctcctc ttaagcagcg 120
 tcgtggatgc cgatgtcata gcaagcgagt acgtgctctc cgagaaggaa ctggagaatg 180
 aatcgagcga ggagaaggaa gagcggatga aggagatcag agcaatagga ctggatgagg 240
 agtatgcgcy atgccctaag gattttactc agaggggttg gaccttcatt gaagagaagt 300
 atggtggtgt ccgggagtat ttggtgtctg tgggcgttga cgaggagatt ttctagagct 360
 tgaggaggcg gttataggcg tgatggattg gatgtttgaa tgtttgaaa atagaggcca 420

aaaggaagaa gtgtatccaa gttttataat taccgttgct tatataggct gcaaatcata 480
 accgtaattt aagcccaagt ccaaagtgtc taaagtgtat cacgaacccg caaccgatga 540
 aagaccaa at gcataagcta cacaactta aaatgaaact aaacgtgcgc cccccggtaa 600
 tagttggtgt tcctattggc gttcggcccg gctgaatcct gcgttagggg ctcttcatac 660
 accatctcgg gatgatccga gtgggcggag tttatgcgt tctcgccttg aggtacgtgg 720
 tttcgcgtgc gaacggacgg caacagatcg accacaaaag agaggacata aaatgtaaag 780
 accagcgcga ttactatgag gttcatagtc agcaggaatc ctattaaagg aagtgaaata 840
 catacccat tcgagcaccg cagctgcatt cctgcgatgc ggtctatgcc acccgcagat 900
 accaaaggca atcgccaggg cgacctcaac aacgatgaag aatgccttaa tcgcaaaact 960
 ggccagtaga acacgatgct gggagcggta gaagatgcc aacgaagggt actcaatgca 1020
 gatgaggata gcgctgacaa gatatgcaac actgcatggc gggtttattag cccaatgctg 1080
 ctgttacaca attttcgcaa tgcgaggcgc acaactcac aggaacatcg ccagaaaacc 1140
 actgtgtaga tgcaatgtc gaagggtgtc atagacagat aaaagaatca agccagagc 1200
 gccggcgatc gaaaaaata tagacgcgat agcgcaaac ttgtcaaact gccctttgtt 1260
 cgggtaccagc tgcccggaat gccgcagcca tcgctctgag acaaacgaga ggtcgaggaa 1320
 cagactgtg ataacgctac cggatgatga cagcggcttg agaccctgcg cgccgacgtc 1380
 tgatatatac ctgcgaaacc gttcagacag gtactttgcg attggagatt ccaaattact 1440
 cagcgcattg tttgtcctgg ttccatgctc gagtagatag ggtagccttg gacgcaccag 1500
 gttcccagca ttgcggcgag catggctaaa acgtgttagt tgctcctgct gtcgattccc 1560
 atctcgtcgt gttgacgtac ctatccacat gcacgccgaa atcacgggga agatccagaa 1620
 agaaataatc cacatcttgt cttgtgtatg aaactgcgc taccacctac gattgcgcac 1680
 ggtgggtgga aaagaatatt gtgtggtgga gaggtcgaac gcgaagatcg tagggacttc 1740
 agtaaggagg acaatcatag tataaaaatc aggagcgcgt gggattacg tatgctggtg 1800
 caccatgggt aggtataagt cgggacccgg gtgcgtggag ccactagctc acgaaagcaa 1860
 taataaaaaa gcatagcgga agctgcggat gtggctggct cacgacacag tgatccctat 1920
 agtgagtcgt attatcggcc cgatc 1945

<210> 2948

<211> 1827
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 2948

```

cacaccacga tgctcacagt cctttcctac ttctggagtgc ctcatTTatg gctagaattt 60
tttctgactt tgctggaagc acctatgaaa ttctgtccacg acggtccaaa tgccactgtc 120
ttacgccgaa aaagggggat cccaatgagc catagctctt ccacggcaat gggagaagcc 180
gtgctatTTt gtatggacta tgccgtaaat cagagcactg atggggcata cctataccga 240
ctgcatgatg actTTtggtt ttggggccaa gagaggacgt gcgtgaaagc atggaccgct 300
atgaccgTTt ttgccgaagt catgggtctt gagttcaacg aggaaaagac ggggaccgta 360
cgctggcaag gggtggcgga gaaactgcc acaatattga ctccacctcc tgtgcagcct 420
gaaggggagg atttgcttcc atctggcaat atacgctggg gcttctgaa acttgactct 480
caagagcgcc gctttatcat tgatcgagaa atggctgaaa agcacatagc cgagctccga 540
cgccagcttt cgcctgtag gagtattttc gcatggatac aagcatggaa cggctacttt 600
ggccgatttt ttgtgaacaa ctttgctaaa ccgctgttt gtttcgggag ggagcacata 660
gacatggcaa tcacgacact gagttatatc gaacacgcac tttccctgg aagcgacggt 720
ggtggagtga ccaacagcct ccgaagacga tcgctgagcg gttcgatgtc cacgatattc 780
ctgacggTTt atTTtacttt cctatcgaac ttggcggcct gaatcttctc aatccttaca 840
ttccccTTt tgccatgcgc gaggatatca agcaaacgcc acaccgccg attcaaaaag 900
cattcctgga tgaagaggca gcctatcttt cagcaaagga gaactttgag aagactggcc 960
ctcagaaccc ccaggccttt gtgcttgaa gcaaaagcga atcagccttc ccgcgagagt 1020
tcctttccct tgaggagtac atgaaatagc ccgagtgtt tagccgcccc cttttggacg 1080
cctatcggga cttgatccgc attccggatc aaatcagcgt tgacctcaca cttgctatgc 1140
gtggcatcct aactctgagc gcgacgagga cttcagcgaa aacctctct ggagactggc 1200
ggagtatgtc accttactgg aagtggacgg ccgagcttta tcgggctggg atggtgaaga 1260
ggtacggtaa cctcgcagcc gtaaatcggg agttcatgcc tgcggtgtg gttgagacac 1320
tgaaggaggg aaaattccgc tggcaaggct gatttggTc acttcacttg tatactagtt 1380
tcacgaagtc acgaagtcat gataacagac aaataatgc gcagagagac ggtcattgac 1440
  
```

cgtttgattc aaatttatct agagcattcc acagtcgctg tttttcttca tctcctccga 1500
atattgcctt aactgctttg cgagagatgc tgataaggtc tcttcgattc aattggaaat 1560
gctctgcagc caagaggtag tcatttgaga cagggctaca gaagaagcca acatcgtagc 1620
tctatatggt cagctgagca gaacataata atttagggag aaactcacgc aaaggatgac 1680
cgggcactcc tcgtgtctcc aatacccaaa atgatgatcg aggaaccctt catcgaacat 1740
cttcgcatgt acattacaag atatgcacag ttaccaccgc tatngtttgc ggcgaatttc 1800
tgataatatc atctgcacat gaataca 1827

<210> 2949
<211> 1326
<212> DNA
<213> Aspergillus nidulans

<400> 2949

acgtcagagg gacgtgcaga tatatcatga aaggatcaga ataccttttg gaatcacgag 60
aggagcattt gagttcttct tgaagtactc gctagccctt ttggcatttt gcgcttccat 120
gcgaaaatcc aactcctgtg gcaacgaaag atccatttcc ttcgagagcc attccaagtc 180
atattccgga aagaagcgct tcaacatcga gaatgtgaac cttgtcagcg caagggtcaag 240
cgggtgcccat tccgccaatg ctggatgttg caccttcacc gcaaccttct cgcagtttc 300
cttcaatgtc ccaatgtgta cctgtgctag cgaagccgcg ccgattgggg tcggttcaaa 360
tgtcgtaaag agttcatcaa tccgttttcc agtgcctta acgaacattt gctcaatcga 420
ctcgaccgac gaaacggggc atttatcttg aagaggtagt aaagtcgtcg tccactctag 480
cggaagcagg tagcccatgc tactcaagtg ttgtcccagc ttaatgaaga tagagccatt 540
cctttccagc acatgtaggg ttcgatcggc gcaacgcttg tggcaggcgc gaatcgctc 600
gtttcgttcc tcgggtgtac acgtctcttg cttaagagtc actcgatagc tatattgata 660
ctgcgtcagt gagtaattcc acctcttcta gtcggctaac ttactcgttg atacaaacag 720
ccagcgtgcc aacaacctc cccgttcgcg cggcagcgtg gtaaatgtgt ctgatatcat 780
cggaaaccac gacctctca acaacaattg tccctccaat tatcccatat ccgatccact 840
tatttctaga ctgagaattc tgagactgcc ttccttgacc gccagccctc tggtgggttt 900
cgaatcgata taaagtcttt gtagaaaacg gcgttcggaa gttgtgctgt gggaaggtag 960

ccttattgaa cctaagtgag ctgaatagcc aataacgggg cggcttgtat gaattccacg 1020
 ttgcaagctc tctaggagcg tatggtgaag cagtatattg aagaacggac gccgggtcac 1080
 cgagagcccc tagtggggtg cggagcgcca ccctcatgcc ggacatgaac gactccgtag 1140
 agagagcagc cacgagtcaa gggagaaaag tctgtcgggt gaagtgttca tccgtacccc 1200
 aaggccattg ggcgaaagat ggaagtgtag atgaggtagt tctgaaggga aggagagata 1260
 gcggatggcg gaggagacaa aaattgccgc gtggccgttg cgatgctgat cgtggcatta 1320
 tgtttc 1326

<210> 2950
 <211> 845
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2950
 catgactcgt acgggtggcc gccatataca gctatatgga acttgttga ttaggaaac 60
 agtccatcaa aaccccgaca agcctggtgc ttgctaacat actacagtac ccggcatgca 120
 tcattcccta cggaaaagcg agcaaagaac tcgatccaga gcctatggta gtggcggtg 180
 gtcagccagg ttgtatgtca accctacttg ctaccgttga ggtcgaatgg gaggtgaca 240
 gtaacagacg atcccgaagc tgtggatgga gtccttgtg ctctccagat tgttgcgcct 300
 cgattccagg atgagaaatg tctcgtgca gcgaggatta ttgataggga cattcgagtc 360
 tgatccagta acccagtga ctttgtcttt atttatatta tttaacgtta ttctacaatt 420
 ctaaattatt atatttcact tcttgtatat attatattca ttcattcatt cattcatttt 480
 atttttttat tcttttaatt ttattattat ttttcttccc ccccttcgct ggttctaagc 540
 tcggaagccc gccctggaac tatcatttga aagtataact ggggtgttgtg ggaaaagccc 600
 aggacaaggg ctcggaatg accttcatta ctatttaggg agcagatgca accgatcatt 660
 ctgatcagtt gttttgtacc tttgtcaagc ggtctggtct ataccagcgc ataggtatcc 720
 cagcccgtca cccagggcat caataaaatg atcgactcgt ggcagtgggtg gcttgaggct 780
 ctcttaacgt atggaggcat cctcctagtt agcgccgata gtgtgggttt aaacatcata 840
 atgcg 845

<210> 2951
 <211> 1073
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2951

```

gagtgagaga gcatcttgtg aagcaaggcc ggcttgctcg tagaaatacg ccgcatacgt 60
tgccggacgtg gagaaggacg cctgttgctg gatccagatc atgcatgtga tttccgtgcg 120
tcggaggctcg atgcctcgaa agcagtcgag gtaggccatt cggctcgtgc ccaggaattt 180
ctcggcctcg tttgtatgct gcatcatgga gactgtgccg tccacattga cgccgccgtg 240
ccgtgactcc gttagttgaa gcaacacttt tctggcttcg tgaggccgtt ctttgccgat 300
caaccaccct gttttagaat cagctcggcc ctgaaaacgc tggagttgcg gctaggaagg 360
gaggggggggt ggttgtagat ggtgattcgg gagcaaaata gacaccaata aaaacgagga 420
cagccagcac ccactgaatg gcaaaccggc cgcgatatgc ccattcagat ttgctgggta 480
ccagaagccg agcgacgcct acggctgaaa gctggccgag tagccagcac atgttgacac 540
tgctcagaaa gtacgcccgg agcgcgaccg ggatgacatc ggagcatat gtcgtggaca 600
gagtctggaa gatgccccag gggattcctg atgatggtca gaacaaacgt tccattgaca 660
acagcgaagc gtctcatgtt taccgcagag gacctgcgcc gccagcaaca ttcgcgtact 720
cacagcgaag aactcgagga atataaagac agagagcaca gccaaggcgc caaggattgt 780
gcgacggtag ccaaagtaat cggccaggta cccgttgacg agcaggccga gaatctcgcc 840
gaccacagcc cgggctgtca ggctggcctg ccacgtggac gagatctcat gcgtaccggg 900
ttttgacggg acaggcgctc catattttgc cctgaaggcc gggaatgtaa agaaactggc 960
gattagtgcg gtgtcgtatg ctgccattac gattgtggtg cagagcacia tagaccacat 1020
cattgccttg gggtagaggc ggcaccctc gagaaaggag agcgctgctc ggc 1073

```

<210> 2952
 <211> 1331
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2952

```

cagtctcttt gactggccct gtgcgtcatt acttcctaata aactaagagc attctgcaat 60
ttattgagtt ttaaagaaac gtttgtggcc ggtatcagtt taggatacca gcattatata 120

```

ggagatattt tcgatgttga tcgaagcctt aatattaccc catgggtccg tttagtctgt 180
 atccagaatg gttggtagtc actcttagga gtatggagaa gccaccgctg ctgttttgcg 240
 gcctctttat gtctcgggga catatctgca agtctgggtc cttaaagctct acagttcagg 300
 cgcggttcctc gcctagttag tcaagactta tgtgatagac aacgggcatg gagttcccta 360
 cgtgatcttc actgtctacc ggctttcaga tgtactgcac atatatgttc ggcgaccggc 420
 caaattccgg gtttacagca cagggactag taaagatttt ccattttgta aaatatgaag 480
 gccgaacgga accggatata gtaggtttac ttgagagtac ggtgtgctag accattcgtg 540
 ccgcgcctgc gtgggggttat atatcagata attgatattc ctgttactca gtgttgagtg 600
 gataacatgt tgagaaaagt accatactag tacttcccag gcagccatcc acttctagga 660
 ctgagacatg cgagagatac accagctaaa gaactaacta gctatgatgg aaaaggtgta 720
 gccataccgc gagtgcataga agcaatggcc catacggcat ctccatccgc cgcactggcg 780
 aataggttgc caaccttaag gttccacact acagtgggtg gaacttctct attgagtatg 840
 aggtgggttct cacgcattcc aaggcatctt ctcgctgatt actgttcgct gcgaggcctt 900
 ctagccgtaa agcttctaga actggcacat ctccgaatag ggcgaacgaa cccttgtcag 960
 cagcgtaaca gactatcacg acacggcccc agggtagata tcaaaccagc ctgccttattc 1020
 actgtggacc aggcaatggt accagatgcg gggagaagaa atacaccgta gagcggcggt 1080
 ttcactttta caacctggct ctccgcacga ggaagcatga ttgtccccgc acggagccat 1140
 taaatatacg tcctttctat cagtccacta tttttcttca tttccgcggc catacgatat 1200
 aagcctttcg tggaatcatg aatctaccct ccgataagct gatttcagag gcaatgcatg 1260
 ccgatctgct gtcaatgaga agacaccttc ctacctgtaa gcatgtgatg gttcggcgcg 1320
 cattgtctga c 1331

<210> 2953
 <211> 1723
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2953

tcatcaataa tgcaattact ccaactttca ataccgtcag taccaaatgc actctgaccg 60
 aggattcaac ggaattagga ttgatttacc aggcctgcga gaatttgaag gcatatacat 120

caactcatcc cttcctctag catatgatcc actgggttagg caattcagcg atacagcaaa 180
 cacgaaatcg gccaggtaca catgtaaatc tacggccgag gaagacgctg gcctctctat 240
 gcgcgtgaaa gtggctattg gagtgggttat tggcgtgggtt ggggctggga tattgggagg 300
 tttggcgttc tgggtggagga ggagaaggca cgggttggtcc aagtcttgtc acgttagcca 360
 agttgagctc acagacttgt ctgcggttgg agttcgtgga cagaggaatt gggaacgggc 420
 cccgaatgat gaggcgcgc ctccgtactc tccgcgatag agacggtgga atgcgcatat 480
 ggaagtagtg aaaatgatta gtgtatataa taactgatac tgatcacgcc ggttcacgag 540
 cttaatttga acatgggaat gtttattttt gtatatcagc tgtagtttca ttgaaccgta 600
 ctgaaccgta ctgcaataat tacaaatctc aattaaacta ttcccagccc ttgcaaattc 660
 catgtcaaag ttgctatcct ccagcctctc tcttggtacc tttgcgcaaa gccactaata 720
 gcagcgtgtc tataacatat acagtcaatt gcgttctagg gaaaatcaat atgaaggtag 780
 atacgcagca aattcggatg gatccagctc catcacattc aaccaggcca ctagatcgtg 840
 ttagtttcta cctgcatgat gggtgtcctt gtggctgacg gccagggtggg ctactaaccg 900
 gtcggcacia ctctcaggag agaagacctc ctaaaagaca tcagcagagc tcgcaggggg 960
 atcctcagtc cttccagtct ggatccggta cgcaaacagg gactggggca tacataaac 1020
 gcagtttcta ccttgctgtc tcttatcaag ggaggtcttt tcaaggcca ccgagggtgc 1080
 ggcatagggc agggccagga aggccgggaa ggcggcaatg agacgcatct tgtatagaaa 1140
 ttggggacaa tataaggtat agttggtctg gtagagtga gatggtgtga tgataggaaa 1200
 gaatgatgaa ttcgagagaa tgagacggct atttatgtgc ttcttctcct ccctccagc 1260
 tgcaccttcg gcggccgttc atatgaacga agtacagagt aagaattcag gatacgcggt 1320
 atgatctcag ctgagtgaga agagaccaa tcgagccatt gtattttcca atgaacattg 1380
 taagaaaaag cacacgggat agcttcaaga cgaagaacaa ccttgacccc cggcgtctcg 1440
 ggctgggcca ctgaactgat agtccaagc ccaagggcat tggtacattc ttccaatgag 1500
 cagcgtcatt ttgtggcgca gatcgtgcgg aggacatccg ccgggaggcc ttacatgtcg 1560
 atcgccgtct gatttcagca aataaccact ctacgctgg agccaagggg cgccaattct 1620
 gggcggatgg gaaagtgacg gaggctgaga agatccggcg aataaaaggg ttttggcccc 1680
 tagcaagagt gggtaaattgc ctcaacgtcc gctgttggtt gaa 1723

<210> 2954
 <211> 1617
 <212> DNA
 <213> Aspergillus nidulans

<400> 2954

```

accccatatt atacactgtg aaccaagacg tattaatttt ttccaaagaa aaaaaaaaaac 60
accccctttt gttttaaaaa agaagagggt tcaccctctc ccccgga aacctcttta 120
aaatatttca ccattccaaa aaaccccgag agatgggcta cacacttggt ggtagagagt 180
ccccgggaaa agcttttcta gaacaagcgg ctcgtagcgg tttctagtca tagtctaaaa 240
caggctgcga gaaaaggctc tttgcggaag gcagctctgc cagaaagtta aagcttagta 300
tgtctatttc tccttacctc gccacgttgc gagggctaca ggtgatgtca aaacacttct 360
acagacggca ctctgtcaac gtttcgctct acttaaaaag atcgacagga caacgccaaag 420
tcgagttcac gtccccgagc atcgcgctgg accttccgac tacggataat aagcggtaga 480
aagatagcta cgagctgttt gcgccgattg acccgagaaa atccacgttc aagggtgctcg 540
gcacgaagct agagttgatg ctctgaagg gagatggaac gagctggcca gtgctacgaa 600
aggatgatag atggactggg gaacggatcc agattggtag cgcagcaagg gcttaactcg 660
acttcgatat cgggtagtag atatgaatca cgatcatatt catgttttgc ttagctccaa 720
ataagccgtg taggtagttt gtgtagagta gattcgctgc acgacgcgca acattggaca 780
cagccgtcaa atttcgtcaa tcgactggca tggcatagtc tagagatctc catcgcaaga 840
gagtcctagc acaactaagt ttgcggcagc gtctgcagag tctgcgcgaa gtacttggtc 900
cattgtacca gacagatcaa gaacttctct agcaatccag cagaaaactc ttcaagctag 960
aaactacaac ccactctacg aagccagcaa ataccaccaa gggcaagcaa aatagtggca 1020
cgccccctcc acagccaaag cgcattggga cgccgaaagg cacacctagc ccagccatga 1080
attgtaaggg aaaaagaagg gcgtgatggt aaaaattcct ctccagagct gggaacggaa 1140
gaaaaccac atagatttct aaaaaaactc acaggataac cctcagcgag ccgcacgtgg 1200
cggagctccg gttttaacga atttacatgt taagtaaacc gctactgatg atggagaaga 1260
aaagaaaaga ataggaaagg aggaaggatg gtgcaaactt ttatatgact agccaagagt 1320
gccgctaggt tgaaagcggg tagtgctgga cttagtctcg gagtttttta gggtagccgg 1380

```

tgaagtgagg gctaggggga gggcttggga gctcatgtga ctaaggggtg ggtaggcag 1440
 aaatctcagg cggtcagtgc ttaggagggg aaatcacatg caaatgaat ggctagctgc 1500
 atgggggtag attgatactg ttaagtttgg cccgtattac tggctttagg cctgatatag 1560
 tgagcccgat ggccaaaaaa aaaaaccca gacgcccga caattagcga ctgactt 1617

<210> 2955
 <211> 1216
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2955

gctaaaaatt ccggccctat ctgcccgtga gaactgctcc ttcactcatt gatgctcccg 60
 gaacgtatca tatatagatc ttcgtaatag gccgcttccc agtcgtatga tcgctgogca 120
 tttgtgagat ccccgtaaaa gaaactgagg aggtttatta agggatccga tgcgctggaa 180
 ttgtccatta cggagagtct tgccgaaata atactggatt acgcccag aggtttcgct 240
 cggcaagctg acaaccacgt caccaagacg gatattctgta tcttcacgag gtactccacc 300
 gccgataccg accatcaatc caaagtgcag acggggaaat gtcgggagca tctgagcaaa 360
 caccgttgcg gcagaggtag tcccgtagac gccagaagga aggcaaacca ctacattgtg 420
 gccagcccgt cgaccgaggg tataattggt gcgatccgtc gaggggttgc agagagaact 480
 gtgaatctca tctaactga ctttgcagc tgccattccc agcggcaatg cgcagatcca 540
 ggcaacggtg tagtcatcat gtgataactt cgtgctgatg gtcattggcc acagatactg 600
 aatgtgacag catagatgaa gtgaagaaaa atagaaagcc tgttgagttc gaagagggaa 660
 cagtttcgca gattcgaagg ttggggctga gcatggagag ggtagcaga ctacagtgc 720
 tttgcgcaag gctgagaagt ctgagaaggc cccaaatcag ttggcttggc acctgtggct 780
 caggetcaag aacagatata acgataccgt gctgtggaat tactctagat catattggta 840
 tgttcatgtt tgacaattgt tccccagtc atgggtcaata tcagagacac ccccaatcca 900
 gttttctgac gtactccaac ttttctcttc aactcattcc ttgacttcca tttctgcagt 960
 tcctgagcca actctttcaa agtatcagtc cgctttttgc cctgattcta gctccatata 1020
 thtagaggac aacgggtata gaaaataggc cccctgcaat agagcccaag agtgtcagtg 1080

cccattgaac accaagtgac tcgaactaca aaaagaatat aagcgctatg ccagattctt 1140
gaagggtgaag attangtacc atacaagttg caaaaagcgg aaaccagag cgggccagcg 1200
agctgaggaa cgtatg 1216

<210> 2956
<211> 1149
<212> DNA
<213> *Aspergillus nidulans*

<400> 2956

cgtggctgtg gagaagatgc cgagacaaac ttcgggtaag actgacatca agcgcgtgaa 60
aaaatgggtc aatgagctgg atgagcagac tgctgagcaa gctcttgata tcgagacgac 120
agcgctggg ctcacagttc ctggtagtga ggcggagaag gtgatacaag gagcagtctc 180
caaagtcttg aatatccctg ccgagaagat tgccttgaac cgatcgttta ttagcctcgg 240
cggggattcg atcacagcaa tcaagctaataaatcaactg cgagatgcag ggggtgaattt 300
ttcaatcaag gaactgctcc gcgctgggtc aatcgggtgaa ctgcgcggcc gagttacatc 360
catcagttag ggcgagaatg tgaacccgct attatccctt gtctcccaga agaaagagaa 420
gaaatactca cttctgcgcc tcggggacgc tgaaatagag gcactgctcg cacagcgtct 480
tgctactatc ggtcttaccg atttgactcg ggtcgaggac gtctatcctt gctctcctct 540
acaagaaggt ctttctcgtc gcacaaacca agggcgtagg aaggtagcag gtggtacaca 600
tctacgaagt gaccacctca aagacgcac agtctcggtc aaccctcatg tacttgccaa 660
agcctggaag gaagttgttc gtcggcatca aattctgcga acaatcttta tacagggtct 720
tgaagaaagc actgcattta accaggctgt cctacgcgag gtgcacaatg cccctttgt 780
catcgaggat gtcaagagca atgatgccaa agccctattg cagaaccttg cactccaga 840
gtaccagacc ttcgagcctt ggcatagcgt gacgatctgc tccgacgcca atgggactgt 900
ttgttggtgt atccggatgc accacggctt atttgatgcg tcttccatgg atatcattct 960
gcgtgaggtt gctcaggctt ataatcagag actttccact ccagcaccct tgtaccggga 1020
ttacatctca tacctgcagg gactacagca agggggcaat gatggcctcg catactggca 1080
ggaatactc aaagacctcg agccatgcta cttcccagc atcaacgagg aggccttagg 1140
acaagaaca 1149

<210> 2957
 <211> 1724
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2957

```

aacctctttg ccacatgagg cgggccacga ctacgcctcg tctgagcgcc ctagctcacc 60
ggatgcttcc cccaccaacc agcccaagaa gaaggaatcc actggacgca aacgcagagt 120
tcttggcgtt agcggcgctc aaaccatgaa gcgcaccgcg tccacacagt cccagacaaa 180
cccattgaag gctgctgtcc agcagacatc cgtccacaac ggccagaaca tccaggccgc 240
tgaacggaac tactataatt gccaccggcg tctccttgag caactcaaca acatcacacc 300
ccaggactcc gccatgcatg acaagggtcaa cgcaagtctc caagaactca ttacccttgg 360
aattacatac cgccaggccc aagccagcca ggccgttgct caaatcggca atggaattcc 420
cgcttgaatc agcatggcca tgagcaaagc aagataattt ttgcatttgc tgccaatttg 480
ttttctcctt cacaaggatg cccactagat caggactgct tggcatattc catggagctt 540
ggaggcgttt ctaaattcca gctacggggg cactgtgcct ccttttatga atgctgaatg 600
aaacggccta caacaaatta ttttcagact gccaggaata atttgcattg cacctgtgtc 660
taattccaag ggttcaacca tgaccaggt ctggtaagaa gcgcaccatg ttcaatcgcg 720
gaaggacccc gtttggactg gacgggctgg tcttgtcctg gctatccagg caggcaaaaa 780
ccaacttcat tacaggctga agtcgagttc cgggtgcggga ctctagcgcc cttgcgctac 840
ccattattct ttctcacatt atctccgaga atgcttttta tctttgcttc tagttttcga 900
cccttctttg cgctatcgcc cagtttgcca aggcttgatt ctttatatca tttcgtattc 960
tgctttccta tatttgtggt ggattttgca aattacttgc ttgcttctct tctgaattt 1020
ctctccacc gagaatccat tggggaagac gaaaaaagaa tcacaaaaaa agggttgatt 1080
caattcgggt cgactgagat ttgtatacag cgacggacag cgcagcgctt tagcgaccga 1140
caaaaacaaa caggacggaa tggaaggaa tcatttcggg atattatagc ttctatatgc 1200
gagtttatgt gttattttta attgtttttg gattggtttt tgtggaaata cttctgatac 1260
ttcttgtgcg atgcagtcgg ggtgcagttg atctgcactt catgagcttt ctgtgctctt 1320
gacgatgggc ctgccctgtc tactttcggg ttatctatat agtgatgatt tcgtaaaatc 1380

```

aggtttatat aaacttcact ctcttctagt aaaaaggtgt tcttaacgct ttccaaagtt 1440
 tgatgcttcg ctatatgcag tttctctaga caagataagc aaccctatta aacagcccaa 1500
 attcgccaaa caattccgac aggtaatgaa ctactgaacg ggcttactac cgctcctcaa 1560
 cctcatcggc gaaatccgca ttcaaaaacc ttacaaacgc atccccctatt tccccctctc 1620
 ttaaccacc tcttcccttg acagccgcgt gtggcccagc aatgtacgcg cgattcagcg 1680
 aaatccactg cctgcgtaga ctttgtaacc ggcgggagtg caag 1724

<210> 2958
 <211> 1311
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2958

ttaacataac aacaaaaaaaa aggggggggg cgcggggtta tgatgtctct ttaaagggtc 60
 aaaggggaaa atccgcaaag ctgagcggga acttctccat ccggggggga taagggacca 120
 agggacgctc ttaggcttgg aaaacagtcg ggggaggagc acttaaaagg taggtccacc 180
 tggggggcga acacttgtgc aagagatcgt ttcagacagt ccagcaagcc cggtcgctaa 240
 caaccgaaag ccaggcgta cctgagccgc ggtcaattct gagcttcggg ccgtcgcttc 300
 atagtcgctc gtgaagtgtg ggatatcggc tttaatggac tgtcttcaca gggggacggt 360
 gcctgggagc ggatggtaat gggtcgccag aagagaggtc ggcagtgggt gcaatgtcga 420
 attcatcctc gaaggatgca ccagggcaag cgaagtcagg accttgtcag agaggttgct 480
 gctttgcacg cgatacttga taccctcgaa cttgacctca tcgtctgcaa attgtcaata 540
 tgcttttagct tactgcagga agaaaggatg ggatggagca tactgtcgcg gaagagagag 600
 actttcttga caggagaggc atctttgaag aagttcaggt gcatgaaggc aacctcctgg 660
 ctaccggtgt tctgcacaac agccttgatg cgagtgttgt caacctggga gagggtgacc 720
 tgaagcccag tgggtgctgt cctgatgtcg accggagagg cactggcagc ctggagcaca 780
 gccagaagag cagcgggggc aatgaacttc atgatgggtg aagatctgag gagctgatcg 840
 acttgactgg ttgactgatt caataaagta gctgatcgta gctgatcggt gctgcttatg 900
 ggatcaacca caatcgatgg ggatcacagc gtctttatac ttttctcctc cccctcccca 960
 tcaactgactc taagcgaaca aaaggcatac tcatatctac atccgcgggc aatgctgcat 1020

tgagccatag ccaaggacac tggaaagaca cggctgggcg tgaagcctcg gtgacaccaa 1080
 aacagaaggt ggtatcctgc cgctgtcttg cattgccaaag ttcgttctta ctgtgaaagt 1140
 atatcgaagc tatttgatgt cccgtccagt agcaaatcca gacgaaggcg caatagattc 1200
 accaattagg gcaattggcc gggccccggct tgaactgcct agattcattg caacccttcc 1260
 agcatggccc gatataatgg gggactatga acccctgggc aagtagtgca c 1311

<210> 2959
 <211> 1526
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2959

aacacaacgc gggagacggc cagtgactgc ctctgcccc aagagtcacc tttgttccca 60
 gaccgcccc aagctgccgg gctcagcttt tattctggaa gtaatccctc gcttgttgga 120
 ggtgaacaga aactgggac ttactgatgt catatctgag ccgaggccta tacattcaaa 180
 ttaatgaata ttgagcttaa aatagtctca acggcgccct gacccttgac tcgaaaatct 240
 tgactctgga ttaattaatt tatattgcca ggcctggat ggaccctagt cgctgactcg 300
 tcgctgcac tcgcaaaggg ctatctacat acagaatata ttatagcact gaacgctggg 360
 gctagctggg gcttgcctgg gcggtgtatt gtggcgtagt gatgtggcg tggcgctcgc 420
 ttagttggcc catggagacc gaccaagggg gaataagtgg gctgtccaac ggtcgcagag 480
 gtcattgatag acgaaactgg ctgcggagtg acggaagaga gcagcgtgcc cactgaccaa 540
 gaggctaata actattggcc ttgggaattg cgatttgccg gcaatgggtg caaactcaaa 600
 actcaaaagt tctttccata gtctcaacta ccgccccgtt tctcgcgtgg gactattgaa 660
 taatgatccc ccctgggacc ctgggggtgg actggagagg gttggcagac gccattataa 720
 cagaggacc acctgctctt ggtgcccagt cttggtgccc agaggccggc ctgggctagt 780
 cgagcattgg agtggcggac gaaggctgga gtatataatc taagtagtgg agtagactgc 840
 ctagtagtac gagcatagcc tttttaacga agcgtattct ggtgagaaga ggatatgtta 900
 ccgcttggcc tgggcctgtg ctgtcggtgg gagtaacaaa tttaaacggg atgcagagac 960
 gatacaataa ggaccaaagt ttaagtga aggtttgata tcattcatta tcaccctgtt 1020
 attaacagga gaggatatta tgtgtgaaga ctgaatgtag acgcctcagt ccctggggga 1080

cttcggagtg ctacctacct tgtcgctcga agtggctccc gcgcggcgca tggcgacaag 1140
tctctcgcgg agaattctct ctcgtagttc ggtgctagaa acgcgtgctt gctgtgcttg 1200
tggttttgga tcggtgcgct ataacggcgt tagtctgttt agaaaaacca gttgaccatg 1260
cttagttacc ctgaagtggg ataagagaac acgactggga tagctgtctt aaataccttt 1320
ctatatggga ctcatcacc cacctcttta gcaggactct tcactttctc aacatcggga 1380
ggcggggacc tggacttgcg tggcgctgc tcgttttgat cagccattct ctgtcgtttc 1440
tcagtatgga aaaatacaga agaggaattg cgccttcgtc gcgcgatggg agcatatctc 1500
tcaatggacc ggagacgctt cctggg 1526

<210> 2960
<211> 2077
<212> DNA
<213> *Aspergillus nidulans*

<400> 2960

aattcttgta gtaagtgatc ttcttaccga cctgggcatg cccatgtgcc tcagcccaaa 60
agtaaaaccc acaccatat tagaaagtgc caacgctatt tcatgtgttc ttatgcgcca 120
gatcgccgca attcttctta tgataatcat cgtcgctctc cgtgtgtacc tcgttcgcca 180
aaacaaacgg cgcgacaaac tccaggccgc tgaccaagtg tccagtaatg ggggtggcga 240
gatactggat tcagatggga cgcagggtgc acgcgtgggt gataacagcc agatggatct 300
tactgaccag gagaatttga ccttgtaagt tctttatgtt tgtattgatt gtgcgagtga 360
ggagatgctg atcttggttt actatagccg gtatgtgctc tgactatctg cgctgggtgct 420
aggtgctagg cgcaagggtc atcacggctg gagcgtgcat tccttgaaga gagtgtttaa 480
atgcgagggc cttttgatg agatctctct gtgataactg tggcggccag aactacacc 540
ttgattgtcc actcctttgc tgcacggacg accaggtact gcactggcag taagagagaa 600
tctgcccctg aatctgcccc tgaatctgcg tttactgccc cattccaatg cttatggagt 660
cgcactaaga aggagcgaag atttgacatt attattgtag aataaaagga atgctgatat 720
acctccgcta caatttgta ttgcgtggca ctatagtga gtttttcaaa ccatggaaat 780
aacgccgat gctttcggtt cagcatctag acctctaggc aagccttcca ttgatacaaa 840
agccaggtag cgaacccttt ctgaaacaaa atggctcagc aaccctgttc agacaacctt 900

attggcgctcg ttcacgcgat cgtcatgggtg gtatctagac tatcatgtgc tttttaaccg. 960
 tccatgccac cagggaccgc ttcgatctac cactgagccg tataataagg aaatatataa 1020
 acctggcct tcagggttgt ttgctgaga agatatcaat gtcattccc actcgattac 1080
 cccagtaatt ttgttgactt tcaatcaaga tgcctcatta ttccgagtac cctaccatca 1140
 cccctcaac ctccaaactt gactacatcg aggctctgaa gacggctgtc ggtacagaag 1200
 gcttgagaac tcttcaacct gatgaagcta agcctccggg gttcgacgat ctgcaacaat 1260
 ctctagcaag ctctactgcg agcactcccg caaggtatac ctgttcaacg gacaaacctc 1320
 ttccggttac ccttcgaaat atcagcaata gcgctgccct tcatgtcggc tttggaggag 1380
 tctgccacg ctgggcaaga gacccccctc agacagtcaa ctttgcgga tttgcaacg 1440
 gctaccgcg cctgtgtctc gctctcgtcg gcgcaaacgc gctacgagat gccgctgacg 1500
 agtgaacaa gctcgatcta ggagtcaagt ttaagtgggt gaggaaagat tgaacatgct 1560
 ttgttcggcc ctctctacgc gggaacaag ggaacctgct ctcataggct ttttttcaa 1620
 ccaggcttc ttggttat taaacgtttttt aatagacttc aagcccgga agacagcact 1680
 gaaaattctt ttttgcagc ctccaccggc gtgttcccc catttttccc cacccttta 1740
 aatattaggt tctcttttgt ccttaaatec ttcttggctt ggattgactt ttctcatatc 1800
 acatctgttc gaggtttaga ctccctatcc tcattctccc cattgtgggc atcttcttaa 1860
 ctacatctct atttacctcc acttacttat tcacattcta tttttccttt ctttctact 1920
 cctgaactta tcgcatact agtctttctt acctcacttc actctacatt tcttttatac 1980
 catcattctt ctttttttcc ttatctctca tctcttctt atacttaatc cctttttctc 2040
 tccatctat acttactcat cctgccccca tatcact 2077

<210> 2961
 <211> 1149
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2961

tatacagata actcttttgt tcgtcgcggc tcggagtcgg gagtgggga gcttggaggc 60
 cgtctaaact gctagcgttt gatagagcat cgtcacatgt aatctattat tacaggatta 120
 cacagtcgac tactgtggta agatggccaa gttgcgacga cgacacgcca acgccgacga 180

cgctgtaatt cccgggcttcc taggttgatc atcgggttcg tgaacagaca tagcaaagac 240
 cccgatggat ctatTTTTgt ggtgtactga ctctatacgg agtcgcctat aggctatagt 300
 gaagcggaat atcgacgctc cccaccatga tgcaaggcac gggagatgaa agttctctat 360
 tccatggtca tagcatcctc tgctatatct ccaccgcgct ggacgactta cgttgtgggc 420
 ttacggagga tggctgtcca gcccattatt aatactgtca gcctcgacct gggaagtggg 480
 catgtattat ttgtgctgtg ctccgtacag agtacagtat cgttcaggga cattatacat 540
 ggaagaacca ccaccgggtc catttgttac cagtaatcgg attctggtga aaagttcaat 600
 atgggcccac ccgccgtcc agtttgggac tctgggacct tgtacttttg acagcaggag 660
 agctcagaaa ttcagagcac gacaagagac ggcagttgca aagcgttacc acgaggcata 720
 ctccgaattc cctcatTTTt gttttctatc tcttcgcagg acttccctcc cctctcagt 780
 acggaggagc ggccgtctag aagtcgagat ggccagtgcg ggagaccgta gacgagagac 840
 tgccccctg gccggaatgc tgggtcggcc gtagtggttt catctttaa gtttgggagc 900
 ccaagccagt cagagcgctc cactagcgac gataatgtgc gtggtggctc caaccgccgc 960
 tctccgcgct gtttggcgcg ccggtttggc cctcatggct cgtggaagat tgccatcatg 1020
 gctgttacgc gcagcacgac cagacacttt cccttcagat ggtctcgagg aaggcacaac 1080
 acccttttgg ttctcgagga gctaaaagtg ttcgaatctg cacggagttt attggtatga 1140
 actggtgtg 1149

<210> 2962
 <211> 613
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2962

ttggaacgca ttagaacgca tagctgcagg ttgcacaggc gcaaggtttc agagtcgcga 60
 gcatgggctc ccgcagtacc aagccgtgta ctgcgacgct acgtggcatc tagcgggtgc 120
 gtctacgata ctggaaggtg gagaatcact ggaggcttgg agctaaaccg cggggcatag 180
 tgcgtaaaac ggtttctggc gctcgtcata atccatgcac cgaggcagca cgtacgtcct 240
 gcttccgaac cctctcccct ccaggaagga ttcaggtatg ttgcgcactg gccaggtggc 300
 cgtttgatga ggtcaaaccg ggtggaagac tgactcttta aagcgtcgac ctttctcgcc 360

cgctgcgcgt cgcatcgcca cgcatccgcc gggggcattc aagattccgc cgagatctgc 420
caggaattct agatagctag ggccacgct tgaaaaattc cggatcagg gcacagtcgt 480
gctgcatgga cggggcagag gggcaattcc gggatctcgt tagcatagga gcccctatcc 540
gggaggtact taagaaaatc cagttcctcg tctctcatat ctacatgccg ttgaggctat 600
atttaacctt act 613

<210> 2963
<211> 959
<212> DNA
<213> *Aspergillus nidulans*

<400> 2963

cgtcctcagc gaatttgctt cgacctcaac agaagaagag cacattaccg ctttcaacac 60
tcgggaaacg aacccgagaa gaagatccct ctgtcgtacc cgtcgaccag ccgccagatc 120
caggcccgctg ccagaaatca tgttcagggt caagttcagg ttcatgctca gggccaagct 180
caacgtggaa catgaacgaa ggtctgaatt ttgatatgaa cgagtgtctg ttgccgggtc 240
caaggaatcg ggcgttgaga cgcaagatac agcgcgtggg atgggacgtg ctaaagcagt 300
gggagatctg ggggttggtt acgcaggagc tttgattatg cttctctcaa ctgcttttac 360
ttttctaattg attgaaacca aacccttacg agcacaacgc attatgcacc tctcacgcac 420
catattcgct ctttgctatt cagctgagcg caattccgcc catcaaaacg ataccggaag 480
gagccctgat gctcttttcc attatttacc caccaccag catattcacc taccttgcta 540
catactataa tatacccgag ccgcgcaacg cgtcaatata gacaacataa accgtcaaat 600
ccttatcttt actcatccct tttatacttc gcaaacgagt aaaaaagtc caaactatgt 660
atctcccaat gttgctcctt gctccgtctt tccttttatt ctggctgcgc taggcggaaa 720
ccgggatacc atactgcagt catagcaaca tatcgattg tctgacacc tgtattcggt 780
tgtgttccgt tccgttccgt gtagttctgc ggacttgta tatgcgcact gtttatacca 840
ttctgcagcc ctttcattcg ccagttctca gtccgccgga gttaggcgca gctgcatata 900
catgagggat catctagata tttgatcttt gtatagaatt aggaatgggt tatgataga 959

<210> 2964
<211> 1077
<212> DNA

<213> Aspergillus nidulans

<400> 2964

caatccatcc aagttcgcga ggtctccgat ttggaagatt ttgtagatat ccgtttcctt 60
ctcagtgaaa tgcagatgcg cctggatttc gtcgcgacg gcgcgagga gggagtcttc 120
gatcagaggg tgaatgacgc cgtgcaagta actgaacaat cagcgttggg gcgcatcgaa 180
gcaattgggt taacgtacgg cccagattca gcatataact tggatatagt ctcttgtagc 240
gacggctcga agagaccgtc gcggaagcgc aatgcgactt cctcgctgga aagcgtcgc 300
tttttggtgt caggctggcc attgccatcc acggactctc tgctgttggg cttgcgcttc 360
atttttggcc tctagaaagt gaccgacttg atgagggtga gtttcaaaaa tttttgtgct 420
gttaattgcc aacgggtccc tgccaaagat caggccatgc tcaggctact gtcagtcggt 480
gtggctaagg cattggaggg tccagtcaaa agctttgcga tcatagaata gatataatag 540
caactatttg acatttttat cttgtagttg atagttaa atcatgtctgcc cgaggagagc 600
gtgtcaaate cttgcggaga aataccgcgt tcgcgccatt tatcgtgaat gtcgggagtc 660
ccgataagca ctcaagcacg cctccatcca gccaccatct tcacaataact gcctagcgac 720
cctttcactc ttctggggct tgtttggcat gatactatgg tctagacgat tttcatactc 780
aagtacatgt atatggaaag agatattata cctatctgtc gcatatcaaa caccacgatg 840
gaccaacgtc atagcatcag cccagtcaac accaccgcgg tgcccgaatc agctatcaac 900
agaccagct cagactccac agggccgaca gcatcgacg aggatcacgc ggaccagggt 960
aatgagactc agcgtccagg aacacctcct cgcccgccat attcgctgt aacgcccgtg 1020
ttcgcccatc tcgcgccggt ccaggacccc tctacgaacg ggatgacaca accatag 1077

<210> 2965

<211> 1654

<212> DNA

<213> Aspergillus nidulans

<400> 2965

cggggtacca ccttgccctac tttagccag catttctgga gaatgaactc ggtgccgatg 60
gtaccgatac gagctataac ccggcgcatc catttacgcg gcgcatgtgg gccggcgggg 120
aggtttgctg gccgcgggat agtaatggca gtgtgaatcc attgagagtt ggcgagaagg 180

ttacagagac gacgaggggt ctaagtgcgg aggcaaagac tgtaagaaag accgggggagg 240
 agatgattgt cggttgaggt gaaaaggagt tcagtaatga ggccgggggt gcggtgattg 300
 ataggaggta tttttctatt ctctcaatgc tgtgatctgg ctctgaagct gtatagaaac 360
 tgggtcttcc gcaaagccct cccaccacca tcgatacaac aaaccaaga cttccccca 420
 ccaaccctc cctcttctct cccagccacg tctacgaaa cctcctctcc agacggcctt 480
 acccacacac gcacctccg ccagacggcc gtaacgtctt tccgcttctc agcactaacg 540
 ttttaaccgc ataaaatcca ctactcgcag ccgtgggtgcc ggaggtcga agggcacaag 600
 gatatcgctg tgcattgggc actgaatctc attgcgattc tggacttttg gagggatgta 660
 cggagctctg cttgtggggc ggatgttgat gcaaacacat ttttgctga cagaattaca 720
 taccgagcga cgagcccgtt atatgcccag gatgagtacc ggattgtgct gaagaagggt 780
 gagggtgagg acggcaagaa gaggccgtg gagattatta cgcctgaggg taatgttggc 840
 atgaaggcta aggttggtgg tgtatagcgt aaagcaggat acgatagaag ctggttagct 900
 ttgtatacct ttgacgttat tgtcatctct cctgcctata ctccgtacct acaactctca 960
 accagtgtg acaaccaag ctatcttccg ctggctatct gcagtgcatt ggtcaggcta 1020
 aacttaccag acaggtatat agaacgcacc cggaggcgct ctcagagata attctttacc 1080
 aggctctgga ggtggtgcaa tgacaaagg ttagaggggc agaataacg aatagagtgc 1140
 aatataagag caaaattcag atccccctcg gcgctgaaat atccccagaa caaaactgta 1200
 gccatcaac ccatatatta ggtaatgctc aaattttgac gcaaactgcc atgacaacat 1260
 gccttcattc actcatataa cacttcagtc gtcaaagtc ttctataatg catcgacccc 1320
 ataccctatt tcaaagtgc ttcatatgct ccgaagccat caaagctgcc agagcatatc 1380
 gcataccatt aaggcagacc caagccgagg cactggcaca agcccaaacc ccaactcact 1440
 gaacagagca acgacaagct taatctgaat accccttgaa caagcaattc cagaaatccc 1500
 ccatgaacgc gtaccggtct cttttccacc ccttgacaat aaactttcgg ccgagtttaa 1560
 tcagttttcg gacttgcttc tctgtcccta ccatttcgag cgtctgctcc cccaaacgat 1620
 aaagtgcacg ccgatgtgga tgagcatgag gtaa 1654

<210> 2966
 <211> 751
 <212> DNA

<213> Aspergillus nidulans

<400> 2966

aggcgctcag agaacttctc aaacgcagcg acatcggaga gtcctcccag gaagaggtca 60
tcatagagca cgcccacagt ttcgaaaaca ccatccagaa cctaaaagaa gccgcaaacg 120
ccatcacagg cacgatccag tttattgaaa gccaccgagc aattctcgaa gccgaaagca 180
tcacccgact tacagagctc gcattcttgc ttatcccgtt ttcttttcgcg gcctctctat 240
tctcgatgca aatcgatcaa ctgcgcactc ccgtccctgt cggcaacttc attgccttcg 300
cgctgtcgct aagcacgtct acctatgcc tccgcttggc cgcccgcagc gcatgggtcc 360
ataacaaaaa gcaacgcatt ctcaattcca tccgcacgag aagctccgtg ccccttgggtg 420
cccctatctc caacagggta attttgcgat gggcattttc tcattctcgca ccaacgatta 480
tactgttact ggtggtggtg tgttttgtgg tgccgcggtt tgcgtttatc tggaggcggc 540
ccctcgacgt gggactcaag attgggttta cttttttgtt tctgatattt atagtcacag 600
ttgttggtat ggtggtcttg ttcgtcccgg agtttcgcaa cacattgagg gatggaatgc 660
agatccactg gtataaaact gtaatggtgg aggatggacc cgctgaggag agacggccgt 720
tcgggcgata ttataaaatg gattgcagtt c 751

<210> 2967

<211> 1550

<212> DNA

<213> Aspergillus nidulans

<400> 2967

cgcgggcgat ccccggaact aggtttacct gggatggtga gacggtcggc aggatgcagc 60
cctactctgt atcgagagtg gtgctagtct gaatgtagtt gaatgtcact ggatgttact 120
ggatgttact ggatgttagc tggatgttag tattcaggac tggcgttcct gatctttcct 180
ttttctccgg ttaaccgtct acggaaaggc ttcttgtgac cgctcgctgt ggcgtacggg 240
ggaaatcccg ggtaccgcca cccgtcatgg gagctttgag acgaggaccc tcagctataa 300
agctctgttg cagacgagca gctccacatc gggcaagata ggaagcaatc cgattcatgt 360
gcaaaaggca cagtcctaaa ttaagagcct gagagctggg ctagaccagg gcccgctct 420
caggagtcga atccaggtgt tgtggagagg attatgcagg ggcttgaaac cgggagaatt 480

aggaagaatt gggaacgctt gcatgttgaa cggcaggcgc agcaacaaag attccgacag 540
 caataaatgc ctcatagctg gtgccgaacc tcgataatag atcagcgata gtgctcgtcc 600
 aacttgccca ttgcaacat gccaatgtgc caatatttcc attttttcca atattccaat 660
 ttttccgaaa tttagagtgg cctttgtggg cacaacaca gttttttcgc gaaaactgca 720
 cgttcgcgcg gccggatatt taccctggac ttgtgcacag tccgtctcgg cgagatctat 780
 tgagttggga ttcttccgag atggtgccta acatttgct atcgcggcct atgagtcggt 840
 aaagactcgg atgccatctc gatgcagtcc gaagcgatag caatcggcaa tccaataacc 900
 tcgtctctag atatcgtccc ctccgatgcg agcgatgcaa tgatcccata ttaaatgccg 960
 tcgtatttga tacatcaccg attcaaccgg tcctcgctg ctaaggagat tactgtgcga 1020
 gcggtttcca tgggtgagag gtctgtcgtt cttggtgagt gcagctacac ttgaaattat 1080
 cagcgtttta tgggtcttctg gatcggccca gatcctgttc atggttgcca atcttctaag 1140
 ttgtagtcta atttaatgcg ttgtgcatgc gctactaaag gcttcaagat ggtccagggc 1200
 tgagacacac tttagcgtg tttcttgaat gactcagttc ttcattgatg tatatcacia 1260
 gaccgccgct agacttgagg agctgctgct tcgggagacg atgtctgcat gtttgccagg 1320
 tatgccaggt atggtattga aactccgtca gcgctagtgt cgcttcgagc ctacttaac 1380
 caagacgaag actatcagac ggtggggatc ccgcataaaa tagccggcgt tgtgcagact 1440
 tgaagcggct ggctttgcgc tgtcgacgtt ggccgcagcg tcttatccga ctattatgaa 1500
 tagagatagg gttagcgcctg agatcctgcg cgttctgtct acccgtgcgt 1550

<210> 2968
 <211> 359
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2968

ctggccgctc ttatactcta cccatgagtc gttgaccata acaaacaagc ttgttaggtc 60
 cagaacatct cagaccggtc cggtaacaaat tgagcaacaa atcaacgatt aaaatgaaaa 120
 tgtacagatt actcgtgtac acgattaaag tgtcaactcc acagctggcg gaagtcaccg 180
 aagactccag tatgataggt gaaaacatga atctggaaat ctcagtcggt gaagttgcac 240
 caaatctgtg aatgacatcc aggtctatcg gcggcaaacc aaccattctt attgcatgtc 300

gacgccgtgt ggctgtggca gtgcggtcgc tgatccatct tggcctacgt acagttagc 359

<210> 2969
 <211> 1161
 <212> DNA
 <213> Aspergillus nidulans

<400> 2969

ctgtagtaat ggaactggat agcccaagga ttcgtgatgt tttctggaac ttcaaaccac 60
 tgggatgtct tgatactatc ctggccacct cgcacaaggt taacaacacg ctgggaattg 120
 aacccgccag catcagcaat tgcctgaagg aaaatactgt tcagtttatt gatttcggcg 180
 ccgtcttcag cgggtgttcgc tgggggttcg ttgatggatt caaaagcaac caaattgggc 240
 ttacacccca aagtgggtccc gatctggtac cacaggcgat agaatttctc atcaatcagg 300
 tctaggtcgg cgccggaagc agtgacatcg gccattccc acgaatctat gtacaatgtg 360
 aacagacgct ttttaacttg ggaccataaa tagctgctca ccatggtgga cattcacgat 420
 ggcatacaag tctcgagaag tgatcgagtc taggacatca gagacgcgtt gcagccatgc 480
 cgggtcgaca gtccagtcag gagattctcc agtgaaatga tgggtccagg tctactacgta 540
 acgtgagtat gctgtacaac aagtggctaa tgatgtctgt acctggaaga cgaacgctct 600
 tgaaccctga ctgtttgatg aggtcgagcg ttgctgcctc aacaggagca ttgttccagg 660
 aaccttcgtc tggaatggcg tccagagtat tccctagatt ccaccagga tggatgtttg 720
 caacaaagtc ctctgcggtt atgggagtaa agtttctga acatgtaact tgggtgtatg 780
 caacctgcaa gagagcagaa agccccgtga ttgatagtag tctttgcatt ttgactgtgc 840
 acaagtccgc ctagatattt tgataagttc ggatcaagta tccaaattta taaatgatgc 900
 cagaactcta ggggagattg ttcgtccatt taatccaggg gtcaccata ttgtcgtata 960
 tgacaaagat tatccctct atgtaaaaac cgggacaaga tataccgaat attgcgaaac 1020
 aggggtctaa agtgagaga ttccgggtga aatatgtcat tcgagcttcc tgatcacgga 1080
 agaacgggcc gttctgtata aaggcccagt taaggcccga tggggttatg tcagtcttca 1140
 ccagtcaaga gagtatgagg a 1161

<210> 2970
 <211> 1713
 <212> DNA

<213> Aspergillus nidulans

<400> 2970

gccgacgcgt ggggggatct cgtctggctg cgaggcgatg gtgtctgcag agcaggtggt 60
gccgttgctc tccagcatct gatccagatc aacgccgacc tcggacccaa atgctgacgt 120
cgacgtcctc ttacggccg gccgtgttcg tccctcgtgg acgtgcgtct gcgcgtgcgg 180
ctccttctct agctgacgtt ggggttgagg ctgtcgtgc cggtcaccat ggctaactgc 240
agccgcagcc gcggtcttcc tctgcatctc caattccgc aagtacctaa gtataacgat 300
acgcctcaat atcgtcgta atcatcatcc gcatccagac gcacctttca ggcaccatga 360
ctttgctgac ggtctcgagg aagcggcagt ctacggggcg gcgctgacag ttggcgcagg 420
gctgttcgcc cgtgcatttg atcttgcttt ggccggcaggc gacacatcta cagtccaatt 480
gtcagctata tctgctttct gtatagagac agggcgaggg agacgaattg tacgcatttg 540
atgtgcgttt cagcttacgc tggcccgctc ggggtggttg catggtgaag gcagttctgg 600
caagattgag acgaggatat atggcagata gcaaggcatc ggggaatgag tggaagtga 660
aatgtggcag gcaagagcgt gtatcgtggt cctactccaa tgcaggctag gcagctcgcc 720
ccgcacgagg cgttcgcctt tggagatcgc gtggggaatg acctgccctt ttgagtgaag 780
aaagcccgaa gattgctgac cctaacttac tgcatgcatg attactgtta aatggttgca 840
taggctgcga catggatagt ggatttgat caggggaggg ggagctacta gagagctcag 900
ctacaatggt gataaagcag acaagccgtg ccttatctct cccagggtat ccgtctcgct 960
atcgtgccgg atcctgtgga taccgccgag ctgacgaagc cctgctctag ccctttttgt 1020
acagctcatc agctccttgc actgcagttc tcattggggc atcggttgc gaacccgaga 1080
tggcggggtg agggttcgcc cgagatatag aaagtagaca aacagttggc ccaaggcacg 1140
atataaatca ccatgtccta cgcacctcgc ctgtatttca cccgtattag accccaattt 1200
ggaaagatct tgtcactgct caagatgttc gacctcctcg tcgtaggcgc cggcctgagc 1260
ggcctgcagg ccgccctctc cgcgcaacaa gccgggctca ccgtcgcagt cgttgaagct 1320
cgcgaccgcg tcgggggcaa gatctggagt gtcccgtgg cttcggggcg tgggtatgct 1380
gacctgggcg gcgcctgggt gaacacgaca ctgcagaagc gagtccggcg gtatgtcaag 1440
cagtttgaac tgaagactgt cgtccagcga ctggaaggca aggccatcat gcaggacggt 1500

ccgcagagtc gattcgagtt tccctttggg gtgacgccga gcgaggttcg tccgtccctg 1560
 cctcccgtac taccatcatat cagcctcgcc tgcagggccc ataagtctct aacgaacggg 1620
 tacagttctc agcagaagca ctatgcgtgt ccgatttgct gctgagatcc tagtattcta 1680
 tagtgtcacc taaatcgat ggtatatcat agg 1713

<210> 2971
 <211> 2338
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2971

aacatcgggt tcgcggtgcc aaaggcaaca ttataccgg tctccgtgag ggctgcgact 60
 agccccgaat ctctcctgcg cctcgacgac ctttgcgctg gcagggaaacg tctcctcggt 120
 cgtatacccg acccagtcgt tcaacgcacg actgggttacc agtagcgccg acgacgcggt 180
 atgcgcgacc atccccggtt cgggctcaat gaagagccgg tttgtcattg catggcgag 240
 catgcgcttc aggtggtcct cgtcgacgcc cgtcttggcc gcgacgtcgg cgtagctgac 300
 ggcgcggtct agagggattg ccggcgcgat cttgaagtgg tagatccagc gcaggctgga 360
 catgtcatgg tagcggcatg cgagccagcg gagatgctca gcgggaccag tgagcaggtc 420
 gatgagggac tgcgccgcct caatgagaga ctggcgggca tgctggacat ttgcaggggc 480
 cgcggggaag gcggccggtg catcaggagc gaaagagggg gtgggatgat tgttgatag 540
 cagaaagggtg tcgattagag aggcgcagga ggagatttgg gatgcgagcg cggtcagact 600
 caaatcggc gaattggttt cattatccct gttcgccatg gtgctgcaa ttgaacgtaa 660
 tgtatgtgta acctagtact tgcttattct ttgtctatct ttcctttttt tctattcccc 720
 ttttgggtctg ctgtggacta tgggggagct ttaggccccg gcactgcaa tcagactgca 780
 gaagagggcg atggatgtag aggaactgaa ataaggtttg agaatcctag cacgcagcag 840
 agcagggagt tcaagggtca agctcaactt aaaacaaaag accaatagct cgcgcaagct 900
 gaggagcagg cttcaaaaga ctgtggagtg ccgcgagggc cgggagccga ggggggcat 960
 gcgaccactt ccaccactc tcctcggggg aatcgatat caaggcatgg atggggccgc 1020
 gtgatccccg ccatcattga tacgcagaca ggcaggccga aggatcttcg tgggaccct 1080
 aaaccgcgtt gttcctagtg agacggacta attccccctt tccagccgcg ttgagtgtgg 1140

gctcattggg ctaatgcaat cccactgcc gcaccggttt tcaatgccc gatcttccga 1200
tcgattcctc tgtgggctgt cccatggcct ttgagaatca tcgagacctg gatctcttca 1260
gactgcgaga atccgtacac gctccctcct ggactggaca ggatggcaga tcaaccgcct 1320
gcaggacagt gcgccaccgt cgctgtgcct gtggataacg atgtaaggac tccatattct 1380
ctggagagca gagcagtagc ggctcttggc actaactggc aggataaagt ttccagacga 1440
cgatgacacg tacagctcag aaatgcaagc caagcccctc tcccatacct cccctacct 1500
agagataaga aagaaaagaa cgaaagaaga aaagaacaaa aaacgagaaa gaaaagggtgt 1560
tgagtatgac aaagtcagga cgctaataat gtcttcagtg aaagctatgc aacgtctgtg 1620
aactcgtcag tgatgaacta ccaactggcag tatggctcag gctatcatgc ttttaaggag 1680
ggcagttagt tctatctgaa ttcgtccttg gatagttgac tgatgcatca ggctacaaat 1740
tccccaacga cgagcgcgag caagatcgtc tcgacatgct gcataacatg ttcaggctgg 1800
ttctggatgg caagcttttc ctgtccccct taaaagacgg gccgttgctg gtcctagata 1860
tcggcaccgg gacggggatc tgggctattg agtttggttaa gttgagctga ctttggattc 1920
ttggataaga cacctaactc tataaccaac tatcagcgga cgagtttccg tcggctcaag 1980
aggtagtgct tcatccatt atgaagggtg aagactaaat tttgtaggtc acgggcaacg 2040
acctgagtc tatacaaccg ccgtgggtccg ttccccatcg gcctgaccta cacccttacc 2100
tagtctggac cgtctgctga gctatctagg gtcccaccca acgttgattt tgagggtggac 2160
gacgtcgaat ccgagtggcc accccggccc cccttcgact tcattcattc gcggtacatg 2220
tgccgggtcaa ttgaggactg gccaggctc gcacagcaag cttacagtca gcatcaagcc 2280
cggcggctgg atcgagttcc aggatttcta tctggtagat tactctgagg atggatcc 2338

<210> 2972
<211> 4157
<212> DNA
<213> *Aspergillus nidulans*
<400> 2972

ttctcgacga ggccttgat acagcaatcg acgacaagac gtttaggtct gacgacctcg 60
aatcacatt tgccgctcgc gtaagttcaa cccgctctgg ctggtactcg accaggcaat 120
ccttctatgt gctaacttac ttcccgctca ggcattggtct gattgtgttt catttggaga 180

ctttgaatcg taccgtgacc gattcgagag aatccagcag tactttgctc cgcggttccc 240
tgatgccgtc aagcttggga atgagatgat gaaaagaatt ctggagaaga ctagcaatga 300
gagttcgtaa cgggtggagga ccaagtatgt attatcgctc gatgctcaag tgaggtctct 360
agacctccct acgcaatagt ttgacaactt ggctgaagga actgtagagc gtagaagctt 420
ctataggtac cctgttgaga taatctaagc gatcccgctc caagtaaatt catccggtga 480
actgggactg tacctgggtc ctgaatagat attgaataga gctgaatgta caggtagcga 540
cccacgactg ggtaattcat gatagctggg tagtcagcag tcccaggttg acttcgtact 600
tcttgagccc gaaaccgact gacaggatat gctttgatag aaggcagctg tcctaaaaaa 660
gaaagagcta atggattatt gacgcccac cgattgctta gttcgtccct tgtcccgtgt 720
gacttgcttt ccgattcgac tagcgacgtc cgcgatcaca acgcccgtc ccctccaaca 780
catcgccggc aacactcgaa acgagcactt ctacgttcgc cagttcccgt ctgcttttgt 840
atactaaaga tctgtcgtgt actcaatgcg gctctttact cctcatcccc ttgcgcagag 900
gtgattgaga cgctcgttt gcggctagat ggagcccat ggcgccgga tacaactcga 960
atttctctgg gacgtcgatc caacaccgcg ccgcccgcga tggacgctcc ttgtctagtc 1020
aggatggcgg acttgccgat ggggagatgg ccccgccctg ctttctcgaa acccgggagg 1080
aattcgctgt ttcgagtcg gcgggagtag tagcattggc cccgggggag ggtcgcttgc 1140
gcctttaaca acaagaccgc gcagttttag cgcggaactg aaaagcatga agtcgtctcg 1200
aagtaccact ccgcgagctg aagtacggcc tgactacgca cgaagacca gcagcatcga 1260
ctatgacgac ctaccaacct cagaagaccg ccaggccgcg ataagagata ggatcgccaa 1320
agagatgaaa atcaagacag gaacggagaa tatgttgaa gtactgttga caaaaaatcc 1380
aaaacagacg cgggagcaga gactaagggc ggagtcggag ctgagctcgt ctaatcgtaa 1440
gctcgctgaa ctgcatcatg aacttgagga ggaacaactg cgtgcgcagg cgccatcaac 1500
ccctcctcga agtcgtctct ccggtctgtt tcagggccct tcaatacggc caccctctcg 1560
cgcaatatg tccgatattg agcggttgga cgataccgag gcggagatgg agtcgccaac 1620
ctatgtcctt gcggagaccc ttcaggcttt agaaattgag ttaatgtcac cggattacta 1680
cgtcgagcgt gcgaacagtc tagtcgaact cttcagacga catcctacac tgaagtatga 1740
ccttgcttgg tcggtattcg gcttacgcgt tcaagttatg cttctaagt atagcaagga 1800

agttgtggcg gccggatata ggttgactcg ctatgccatc gcagatcgga aatctcttca 1860
 gatgatccgg tcacttcaca cagatgagct cgttatcctg tcattggtca aggaaagcaa 1920
 agcaaatact gagcgtgagc aagctctgaa attcgtgcgt gcattcctcg atgtcaagga 1980
 tggagtgaag gagatttcac gtgctgttgt tcggacaatc gtctccgtag ctgagcacca 2040
 tgatgatcgt cttcgaaata tttcgcttat gacgctcgcc gaaatcctgg tgaaagaccc 2100
 tcaactaata gcgtacgctg gtggcttttc tccgttgcat gacgcattat cagaaggaac 2160
 atttggggca tcagagagtt tgataacatg cttcctgcat gtgctcgata ctccccacag 2220
 caggatgcat ttacggggag ggtgtgaact tgaggctgta ctcgacactt ttaccgattc 2280
 attgtccgac aacattcgca acgggcgtct aaagtcata gcaaaggcaa tatccgcgat 2340
 gctaaagaca tggccaggat tgggtgattct tggaaagaac ggggcaaagc ctctaaagtc 2400
 gcttctggag tcattacatt atccggaccc tcaggcaagg gatctaata tggaacttct 2460
 attcgatgct ctgaggatta agccaccatc gtggctcctc tcgtttctcg ctggacgaag 2520
 acttacaaca tacggccggg tcgcgaacct gagatctgag tctgacacaa gacaactccg 2580
 gaacttcttt gacagcagcg aaagccaatt tgacctaaact gtcacttct cactctcat 2640
 tctcgccgct ttgatcgatg ctggattgtc caaggtaatt tattcccaat tgagtggccc 2700
 atgtgtattg acatcccgca ggcactatgt gatctcattg aagaggagga agatttgtcc 2760
 ctcaggcgaa aagcgaccct gcttctgaca gaagttctaa agctggccca ccattctcta 2820
 ccttcaaata tcagtgcgaa gctccagggtg ctccacact tgataccgtc tgccattaga 2880
 ttgatgtcg agaaccatga tgtgtctaca tctacaatct accaaataga aagtatcaat 2940
 agaacattgg cccggtcctt cgggtgtctc gccaatggag ccggcagata tagcgtggat 3000
 gttgatatat ccgcctctct tttgtccgga gatcagaaca aagacaaact gagcccagcc 3060
 atggatgaga cacaattccg caacgcgatt ctggagacgc atgtcttgaa tactgtgaac 3120
 tacctgaagt ggaagtggga tttgatccac cgcacgtgg aaggtcctct ctcaaaccct 3180
 aagaggctgg acgaggcaat caagggatca aagttcatga aacgtctcat gggattttat 3240
 cgtcctttca aatacagatt ctcatgtctc ccgaatacga aaccaaata gcgatatgtt 3300
 cgcactgggt gcgccttgat gcgtgtctg gtgcagacgc cggaaggcat aaaatatttg 3360
 gcggagaaca aattcctccg acagggtgcc gaatgtcttg cgcagggtga ccatatgagt 3420

ggtttgacat cgtcggcgcc gttgttctcg cgagaacaaa tggcaaacac actgagcggc 3480
 ggctactttg ccatgctagg gacgctgagc gccgacccca acgggctcgc gatgatggaa 3540
 cgatggcata tgcttaatat gttctatcat atcattgaac tccgggatcg cgacgaccta 3600
 atccagacgc tcatcgggaa catggattac acccaggcaa gccatctacg ggttatgcta 3660
 tctaaagctc ttactactgg ctccaaagat attcgcattt ttgggacaag gctacttcga 3720
 aaatatactg tggggaatgt gtcaccacaca tcagtttagca atgcagactg ggtcatcaag 3780
 ctcccttgtaa ctcaattata tgacctgat gtctccgtct gccaaagtagc agtgaagatt 3840
 ctggaggagg catgcaatca gcgcgattac cttgagtttg tgggtcaaag tcggccgtct 3900
 ctggaccatc taggtgaaat tgggtgcgct ctgctgttac gcttcttgtc cacttcagtc 3960
 ggctaccatt atcttgatgg actcgactat atcacgcagg aaatggatga ttggttccta 4020
 ggacggaacg atgcatacgt cagcctggtc gaagccgctt tgtctcgagc ctatgtggac 4080
 catccccgta gaaacagctt ggtacctgaa gatctcgttg atcaccagga tattggtctt 4140
 gtgctccac acttcta 4157

<210> 2973
 <211> 1559
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2973

aaataaaaca taatagagag atgaatgcta gattgcttat agataataga aatcataaag 60
 taggaaagat aacagaagga tggagagaag agaggacgcc atgagaggaa agaaaaaaat 120
 gtgataagat agaagaaaat tagttaagat gtgtaggaag caaacgtatt cggttcaaag 180
 atagagggga gtcaaccata agacggccccg tcgggtatcg aataagcatt agcagtttaa 240
 gagctagaac aaggggcaga tgccccccgc aaaaaacact taggatccgg tgacaaaggt 300
 agagccccaa aatcacggtg acggggccact caagccaggg gtcaatcggc ccggacgggg 360
 gtgtgcagta agcatgggcg tcccaaggcc aagcctggca aaaaacaagt aggctcggg 420
 aaccgggcct taacttgggg caaaatatcc gcattgataa ggaggcagtg cttaaaaaat 480
 cgaccaatt gagccgcgtt tctggatctg cggaacgctc agtttcggaa caatgatctg 540
 ctgcaaaaac ccagacgtac gtccctcctt cactccactc tatgttctag ctaacttgct 600

cagtgtgacc gagaatggtt ccatctggac tgcgttggtc tctccgaggt acccagccgt 660
acagcgaaat ggtactgtcc tgactgccgt gtcaaattta acaaagggtc ccacggaatc 720
atcagacata gttcgttacg ccggtagatt taggaatagc ctatggcggc gaactgaact 780
cattgatacg aggctacgat cgcgtttttt cctattgctc ctgtgcaagt tgttttgttc 840
tgcttgTTTT tgatctgaat tggcgaatct ttttttttct tcgcgcagca tggcatggcg 900
gagtgcacgg caaaggaagg gagatggcgc tgggagttga cttgtttaca atctacctca 960
tataacttga gtgtttgctt gtctagaatc cagaggtgct gcttagaaca ccgtaagcgg 1020
acgctgggga tcgttctacg ccaacactat ttacagctag ctagctaggt acttcgtttc 1080
cccaacactt tccttgta ca tagattcag aactactcaa ggcattacct attcctttca 1140
tgectctatc taagctccca cttcccgctc ttttcgaaaa tctcaacagc cctcttctcg 1200
tccaaactca cccttctgc atgcaaaatc gcagtcgtag caatcgtgtt cttcagcgtg 1260
ggcagtggtc gattatccag ctccctcaag gtgactcttc cttcattaag cgctgtgatg 1320
gcgtcaatga atttctcgaa actgatataa ccatagcctg tctgcccgcc gaagttgccc 1380
tcttcgtcgg gggcgtaacg catgtagaac ctatcataag attgttagag gtatttatta 1440
gggcaagggtg gacaaagacg cacggattta tccaggcgag gccggagtcg tcgcctgtta 1500
cgctgtagcc gcgctttgct tggttgacgc ggatctcgcc tgtagcacc atgtctatc 1559

<210> 2974
<211> 1074
<212> DNA
<213> *Aspergillus nidulans*

<400> 2974
ggagtggggg gaaaagatag ttgggggggg ggttgtgagg aagaagagtg gggaataaga 60
agggatggtg ggggtcaagg aagagggttg ggagagaagg gtgagaggga aatgggggat 120
gtgagggtgg aggggaagag ggaaaggatg agggggggag gtgcatgtgt ggaggggagt 180
tgaggttaag aagagcgaag tggaggggtg ggtgggaggg agttgtggtg aatagaatgt 240
gacagtgaga ggagagaaga agagaaagta gtagtagctg aaaaggggtc gggcgctatc 300
gaagtggtcg gtatgccgca gggtagagag gcgcaacatg gttgaacagg cccccggcg 360
cagtataacc gcgtcgagca atccagcaaa atgccctctg aaacggacat gccgagatct 420

tctcagaaaa gcttgtgaaa gggatgcagc tgcgataagc atgttcacta agccccaccg 480
 tccagaccct gcgatactct tccttcaaac tcaacgaccc tttccatcca ttccgtgcct 540
 ctctactgaa ggtgctggaa ccaacgatgg cgggacctct ctctgtgtgag gctcaaagtt 600
 taggcttgct tgcgtgttgt tcggtgaaag ttctgttagg ttgacactc atgggtaaac 660
 tgatcggggt ttgtgtctct ggagaaagaa tcggagtgtg ttctgctggt gtgggctggt 720
 gaatggggccg tttcccttcg ggggacggtc cccccctttt ttatacgtc tccccctctt 780
 gttcagtggc tctgagtgtt aagtggctaa ctgcattgca gggttgatga tttattgggt 840
 tgattaccct ggttttaata ttctcgagcc ttgactcttg cagcaacacc tagcctcata 900
 acataaaciaa cttgatagga agcggacttg ccattggggc aaagggtagc aagcgtactg 960
 gtatcatgtg ttccggagctg gtgaagatta tggatgaggt ataaaaaaaa gtcgtacttt 1020
 gcattccagt tggaaactag caagttaagt tagggccgga ctcttaacta tggg 1074

<210> 2975
 <211> 2012
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2975

cgcgtaggga tatcaaagtg ctgtcgacca ataatagtag ctctgtgcgca aaggcgcccc 60
 cctgtgatgc tgtgccaaat atcacgaagc cccgggttct ggtttagcat ctttgcctga 120
 gttgtctagt cctgtcaggt attgtttgac taatgaagggt gtatgacata ctttgaata 180
 gtcattgcat ttgaaaagat gtgtcgttcg aacaaggcca atattatagt cccacattac 240
 tgtccactgt ttttcttctc ccggaagctg gaacgtgtac tgaaagactg aggaagggtta 300
 gctattatct caagaacttt ccagaatctt gctcgcaggc ttaccctcaa agctttctcg 360
 ccctgtcctt tcctgaaatg atttcttgct gctgttatat ggaatatgtc ttggatagtc 420
 ggcaatattt ccaagaggat ggatacggaa gtctctgatg tgacaagaaa acttgccgtc 480
 tcggtcttcg taaggaggat agcgcacctc gcctctgggt tttccgcgct ggaagatcgg 540
 ggcatctttg gccatcttct gcttcttctg acgaggagaa cgtagcatgg cagtgcctga 600
 ggagattgtc ggcaaggag tgggaaggag acagcgatcc gagctaggaa ggctgggaag 660
 aggattgagg agaaactgta tagaagccat ttatacgcg agaacttctc caccgtcaca 720

gataaaagcg tcttgctgct atgtcgggtga ggttgcccgct ctgcgaataa tagagcgcca 780
gagaaggccg caatgctcgg aaggcaagac agaggcctga tttatctgcc ttgcggattc 840
agaaactctg atcggtttga ccgcccttgt ctgatttaag acacaggggac caaaggattc 900
tagaaggtct ggtgaggtct caagaggggg tgagttacaa tgaatgagga tgacaaaaaa 960
agggctatgg aggattggca gcgatgcacg agcgtgtttg aagccgacag atagctaggc 1020
gaccatggaa ctggcatgag aggaagaaag agtgaaagta gagaaggaag ggagggggca 1080
tcaatgatga gaggtgatct cccttttgtt gataggtttg ttgagtgaag ggctttccac 1140
gagtggatag gtgacggcat ctggtcaaaa gctgtccaga tggcttcccc tcctctctgt 1200
ttgaccgatt gggatatgga aatgcagggc gtgaagtctt ccgtctcttc gaggagcagc 1260
ggtgaaccta ggtcgtgagt caaataccaaa ttctagacac ccagagttga cagatgtctt 1320
ggatggggaa agcgtccggc atgaaataac ctctaccggg tcttaatccc aggaaggcat 1380
cacgaggcac acattaagaa cgggtcaaag gttgctggac gatctgccat acttaaacc 1440
cagtttgagt atagtaggta ctcccatggg cgtacctggg taccctgttt tgcaacgttc 1500
tccatttagc gtcattcaa cggcagtgcc agacgaacct atcctcaagg gtacgtctgt 1560
tttgtcacta gcttgagaac cagaaaagcc gctcatggca tgcaacttgt cgaggcttca 1620
gctgtttcac tcgttgctctg cagctacca agactaggct gacgcaggcc cagcgagaga 1680
agacatggta gatcacgttt cagggactcc tgcaaccatg tggaggtcct gcagaccga 1740
ccgtaaattg aaaccaggct tacggccttc tgaaccagat actcactccc tcgcaaacag 1800
agagaagaca gcggtctggc atgcgtggtc tgtacgtgag aatattaggt gctgtccttt 1860
gagagctaata aataggacca gaggcattga ttgcagcgca tcactcgctt tcagacatag 1920
acatgcatgg tctctcgtct ctcccgttcc cgagtcatga aatacagaga tattgcctga 1980
agatgggggc aacattgaaa gtcttgctgt gt 2012

<210> 2976
<211> 1169
<212> DNA
<213> *Aspergillus nidulans*

<400> 2976

cagaatattg atggctttcg cagaaatatt ccaccagaca agatcatcat ccagaagacc 60

tcggtatcta cccactcaag cgtccaatgc atctgacagg cttgataggt tgctaggttc 120
 tagcgaacga gaaggtagcg gttcgcgatc tggaaatgtc ctacgtgtac ctctacctag 180
 ggatcagact tcattgtctt ttggccgtga cttcgactcc ggctgcaata gaattaaatt 240
 ctcttcaact tctcgaagta gaataaaaga tttgtccagc atatctggga aaagaggacg 300
 ccaattttgt gaacgtagaa ggtcaggacc gtcttgcatc tctggtagct tgcctttata 360
 aaggtcagtt atcgcatcga tattttatct gaagtatcac ttgggctaaa tgatttagac 420
 ttgtagttaa tataaccgag aagtagatta gaggagaggc cgtctattgc tttcttgtat 480
 gcggctatac cattgtttgc ggcgtgatga agctggacta ggggctagat ttgtgctcct 540
 gctagaggac ggctttgaga gattccttga actttcatcg atttgaataa acatcggttg 600
 tggattggaa ggaaagagtg agagcagcta tttcttgctt ttcgtgactt gttacaatat 660
 taagtagtgt attcctgagg caggggtggca atcaagtga taaatcgaat gatcaaagta 720
 ccctctgtgc ttacagaagg ttcgaaatag atttctatcg ttcttcaact gactgtgtag 780
 acggcgactt attgtagaag cagaagatat agaagagaga gattgcgagc agcgagctaa 840
 ttcagaaata ttatggactg ttgaatgttc aagaagatgt gatggatgtc gctcttgcca 900
 tagcctgctt ttggcaggag aagcagccta cagcccgtg ctatagccgc acgtgtcacg 960
 gccctgcgag ccatgatatt aaatcctgcc atctcaactc aaaatgcctg ctgtttcaaa 1020
 gtagccctta ccttgtggga ggtttcacag ccctgcgcgc cgtgatcatg agccagcatg 1080
 aatgacagag ctcatcctgg cacgggtgctc aaggtgagtg tcgagtggct atccagttca 1140
 tcatgtacac tgatatagag aagcatgtg 1169

<210> 2977
 <211> 1171
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2977

ggcatattac tgccatttac ctgtgattct tgtaccagcg actccgagaa gctaactttc 60
 ttagagagaa ctgcactgtt agcaaacagg agttcattgt ataggatgca ctattttcaa 120
 ggatcactgg tcgcagaagg acaattggaa gacgtgctga tcgatgacgg tgcgctcata 180
 ggacgtgttg cagagcctag ctctaacgat acttggtatga ggaattaaca ggccacatgc 240

gtactaattt gcgactggta aagcaagcta gaagtcccag ggatagagct cgcgttatta 300
 gaaacgcacc gtattattga agtcatcgct aaatcagggt aactgctagc cagcaagcag 360
 caccatgtta aaagagatag aagagcacat actctatcat gtgggaagcg acccacagtt 420
 agatgtactg aaagtatccc ggagccccag aggcgaggtg caggatcgga cctgcgcctg 480
 gaacgaggta ggtaagctac attggacggg gtagggcgac ttggacgatg ccaactgagt 540
 cccagagggtg cttacgaagg cagcatagac atcgatcgca tgcaagactg aatgttcgcg 600
 aagaagacac taatgtgact aatgagaact accccggctg ggtcatctct tagttatcaa 660
 tggctggtcc tgcattgttg gtgtttgaaa actccctgct cgcctgtaag gctgcttgcg 720
 gcgtgctgcg agtgtattat cttagagcca atctacggtc ggaaggccat cctagctggg 780
 agaaagcatt cccactggca ctttcccgcg gtgggttgag gtggaanttt aaatttgagg 840
 ggtgggaccc ccccccccc ccgaagcttt agtttgcaaa atcatttttt tgtggtggtg 900
 aggtttgaat ttttctcgac ggggtggggc tctggcctat tagttggaga gcagtccgag 960
 tccaaatagt tattccctat ttctttaaat cttttggtag tggttcttgt tctgtagtac 1020
 tcatttaatt gttgctccct cctcatacct atttctcatt ttagtatca tcctctcttc 1080
 catccttcac tttcttctct caacattact tgtttcgctt gttcgatcca cccctgcttc 1140
 taatccctct tttctaatat tattctatct t 1171

<210> 2978
 <211> 1244
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 2978

atgtgaataa ggtacgtttg gcaccctacc taattctcgc ctctttatgt tctgcaatca 60
 gtggctaata ttgttgcggtg tgcgtatagc tctctgccaa acttgccgag ctgcgggact 120
 ccccgaccac aatcacactc gacggactga gacaattaga gcgaaagacg gcgactgtat 180
 atacgtgct taaggcgagt gtatacagta tcctgttgca ggagcagatt gtcaacgaag 240
 gggagtggca gcagcaacaa cagcagcagg atgaggggca ggagtatgct acggggacta 300
 tgaatgcggg agaggagggg atctatatgg gggaggggga catgagctat cagcagtact 360

aaccaacgca aacggttgag ctggggggtg ggcgtttctt ggaatggttc tacatagata 420
ttgatcaggt tgttctgggt ctgttttttc agtctagctt tggttatacc ctttcggcgg 480
tgtttatgaa atgcttcaaa ttcgacacaa aatggatggg acttaattta tgcattccta 540
gtacagatac attggtaaat tgttgaaaat caggtattat atacatcgtc aggacgtaac 600
cagaaacctc gaactggaaa ccagacaatg cgcccgacgc ataatcgtaac aataatagca 660
gtaatctagt actggagttg acgtggccgg tcttctcttc ccgagtagta gaccttgcgc 720
acatcaacca gcttcttgcc tcgggcacgg gcaatctcct ccgggtcgcg ctggctcatc 780
aaggcttcgt atcgcgcttt caccgtgttc atcggttttc tggctcgctc gacacgagcc 840
gcaatgtcgc tgataccggc tgctcggcac atctcgtaaa tcaagctctg gcagcggagt 900
ccgaaaccta gattggcctt gttagcttcg ctgagcggaa atgtagtatt gaaaaaatta 960
ccgggaggac gggcatcag tttcagctca acggcgccca ctttgccctt cacatcgcca 1020
aagatcgtagc ggttctcgta ccgggggaca ggtttcatgt ttctaatagc acggtatagc 1080
gattggactc tcgcatccgt ggcttctgt gactttcctt cgccaatacc aaggagaccg 1140
tttccattac cggcgacagt taggatatat gtaaaatcac tttaccgaaa cgagtctggt 1200
ttgtgacgtg tttcacgaca agagccttcg tctaaganc gaga 1244

<210> 2979
<211> 1788
<212> DNA
<213> *Aspergillus nidulans*
<400> 2979

actacgggcc gtgagtgttt tggaagcttt cttgaaattt cttagccatt gttgggaaag 60
atacatagaa gagtaaagag acgtacctga gccatcgcgg atctattggg aggaatgtag 120
gcgtaatcag gatgatgcgg gctgtcgctc ctgcagataa ctgtgccgta tgcgaaatat 180
tgagtaatag atgaaacaat taaatggtaa actgcataat tcttcgtgtc caaatcctcc 240
tttaactgat catctcattg tcaatacgtt gaggttggtta agttgggaag ccgtcaagtg 300
ccaacagtaa gtagtgcgac agaccagttc cagtgcaggt gccagcgggt gccctccaca 360
accggccaag cgcccgcgcc gccagcaagt ccgcctccac cagccacgag ccaaatcgcc 420
aatgcagga cgaagacgaa cccggtcccg aaagataaaa cgcaaaaaca ccatcgagtt 480

ccagcttcaa gttgagcgaa agcgagctag agcgctacgt tcactagttc ttagtcgacc 540
 cctcttctct agcacttccc aaacctgacg acatgcaatt tgggcttgcc gaagactttg 600
 tttagcctgc gcggcgtcac gagtcgtctc attcaccact cgccctctct acgtgctcca 660
 gattttgtga ggaggaaggc gagggttccg acaaagacta taggggccct tgctatattt 720
 gttgtttttc tctttaacta tactccgtgc ttctcccctt tctttgagat cttgcggtac 780
 agatacactt ttttcggcca tttgggactg aaagaaacga cgacagttgt ttcctttacc 840
 tttgtcacca tttctaactt cgtacgagga agaggtagct taggtttatc ctgcctgatg 900
 ctccctctcg actgacgatt atttccttac ctttcgatat ccgatcaata ctttaatttt 960
 cgtcggcatc caataccctg cattggcctc gattccctcg actaatatga ctccgtccac 1020
 atcacatatt tcgagccaac taaggcagct gatataattac caatctgaca acaaccttgc 1080
 tcggaacgcg ctgttccttg ccggtcgttt acacgcctac gaacctcgga cgtctgaagc 1140
 ttcgtaccta ttagctctgg gttacctaca aaatggtcag gtgaaagcag catgggaaac 1200
 tagcaagcat tttgggtcga ggggtgcgca tcttgatgt tcttacgtct actcgcaggc 1260
 ttgtcttgac cttgggaaat atactgacgg tattaacgcg ctagagcgaa ataagggaca 1320
 atggactttg cgaaaccact ggaggaagca aatcaattat ttatacctgg ttggaccttg 1380
 gctactgtaa tggcaagcca aactgatact tatgggctct taaccggttt gataaacaca 1440
 gggagaagcg acaacacaat atgcccgatg ctggtgcagt ttttttttgc aaggaaatta 1500
 tggcaggcca catggaacac aacatggctg tggattggta cactgcagct ttaaagctta 1560
 atccctttat gtaggaagca ttcttgatc tgtccaaaac ggtaagctct attgccctaa 1620
 tggaaatttt tttttaacaa aattgccaaag gggggattcg cggtttaaac tatataaatt 1680
 actccaattt ccaaaaggat tccttttgcc ctaagtgtaa tccatttacc ccgcggctcc 1740
 tctacaattt ccatatcact tgaccccccg gtctattgaa aaaactta 1788

<210> 2980
 <211> 577
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2980

tatataaaag gtatcaggcc tttagctttt aatattttga taatataata aattaaatat 60

tctattaaaa tctttgcac cttcaggcca atattataga taaaggttta agagctaatt 120
 atttttattt ttgcaaaat ctttatctat tagtttttca aaatctatga ataattattgg 180
 gactacacgt atagattata tctaaattta ataaaagtat aatattttta agttattaat 240
 ctagttgtaa ttaataagat tattcttaac tttatgtata tctattttct tagaaattat 300
 ctttcctgga aatgtgttta aaaataataa tttataataa gttactaggc tatatattaa 360
 atatatagct ttttaattag agcaggtatt ttagagaaga tattattaat aatctagaag 420
 gtcttttagt gtttggttaa aggtttacta ctctaacttt ctgtataccg caataaggta 480
 tatactgaaa tataaatctc ttctaataga aatttttatt caactactat attgaatcaa 540
 tattattaac cagataagct taaatattta ttttagt 577

<210> 2981
 <211> 944
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2981
 ggtattcatg tggaggtaat tccgaagcta tgatccggga tcggagttcc cctgggcaaa 60
 atctttctct tccatctctc gcaggttcgg ctggaaaccg gaaacttctg cgagtcgctt 120
 ttttaggttg acgcagcttt gatagatacc ctcatgccc cggcggttga tgatgtgtc 180
 ctccggcgacg gggccgcccgg ggttaaggcc agcgggtgtcg gccattgcga cgtccaccga 240
 ctggggccctt taggaagagg gggcggaggg ggaggagagg cggctgatcg actagcgata 300
 gggatatgga ggttcaaact tgcgcagcag tcgaagaaag gacagaaaag gatggagtag 360
 tagcggccag cggaggttgt acgacagttg tcgtcaagtc aagcatggat tactgaagaa 420
 cgccgccgcg ttgagccagt ggaccgatgc gggacggatg gcgcaagcga gcagctaagg 480
 aagggagtgg agatagcggg gctcactggc gatgggtggtg gacactggca atgagcaaca 540
 aaaggtgatt tagtttcaat ggtccacaga aaagtaggtt gccagaagac tatagtctgc 600
 tcggagacaa tatatgcgaa tataactctg gtccaatcct tgttcacctc ttcttggtca 660
 gtttaaggcc ggaagagaat tatcgaaagc gatccctaag atataagggg acagtgtggg 720
 cgtttgcat tgcagtgatc ctgcaaccat cagggggtag ctaattcaga gcacaagctc 780
 cgtctgctat tgaacaaagg ggtataagaa tgtaggttgg acagtaaaga cgcacagtac 840

attagtcct gatagccagg gctatgcggt tgaggataaa acacaagaag gcgctcggtc 900
gaggagtcgc agtgatttga cagcgaggga gcacagatcg taaa 944

<210> 2982
<211> 2154
<212> DNA
<213> *Aspergillus nidulans*

<400> 2982

cctgaatgac atcgtgttcc acgaaagatg ttcacacagt atgaaagtgt tgccctttcg 60
ttccgttctt gaaagtaccg aacaatctta attgctgctg aggcgtgctc tgaaaaatcc 120
tgtacctcaa aggtgtcccc tgatttgcag ttgtcgcaag aagcattgca gtccctggcgc 180
ttaaattgatt cgctaaaata tgcaagtatc tgaactctcc tgcaatcatt tgcattctca 240
cagtatttca ccacgtcatt cagcattctg gtctgtcgac ctttttgtac gtcgtcagaa 300
tcctcgttct tttcgatcat gctctgcatt gtactgacat cccggtgaga gaaataaagg 360
tagcagccag agcgtctgcc atcacgcca gcgcgtccgg tttcctggta gtatccttcc 420
aggctcttgg gaatgctgtg atgtattaca aatcgcatc ctggcttata gatacccata 480
ccgaaagcaa tcgtagcaac tataacatgt acatctccag cttgccatcg ttgttgagtc 540
cgtgcgcgcg tttccgcata caagcctgca tggtaatgct cggctttgat gctatagttt 600
gttcgaaggg cttcagctac cttttcgcag gtgtttcgtg agaggcaata aacgatgcca 660
catttgtttc gatacgttga cttgattgtg tccgctatgc tgtcaagaag ttcggcatgc 720
tttcccttgc gacgaacctc atatgtaagg ttcggcctgt tgaagctttg ggtgaatact 780
tcgcaacctg cattctaagg ttgtgtacac atcgacctta acattttccg ttgccgtcgc 840
cgtcagcgcc atcaggggaa caccaggtat ccgtgctcga aatgcgccga tctgtttgta 900
gtccggacgg aaatcgtggc ccattgact aacgcagtgg gcctcatcaa tgacaaccgc 960
cgcgagcttc tggatgctac agagcttttc aatgcggtca gtaagagcgt ggcttttgct 1020
aatcatttcc ggtgtgatgt agaggagctc gatgtgcgtt tcaggattat gactagacag 1080
ggtgctcatg atccattgac gttcttcaga tggcgtatca ccattgatca aatatgcttt 1140
gatcttattt tgtcgcaagt gggagacctg gtccctgcac agactcagaa gtggcgaaat 1200
cacaagggtg acgcccctgg ttgagccgct ggagataaca gacggcagct ggtagcaaag 1260

agacttcctt cctcccgttg gcattagcac aaacgtatct ttccactca aggtcgagtc 1320
 aattgcttca agttgattag gtcgaaatcc cctaaggtga aatctctctt tcagggcaat 1380
 cttcacatcc ttctgccacg gatgctgacc ccaaagtgtg ccatgagttt gagatttctg 1440
 cgtggcgggc agcctgcgga catttcctga ggtctcagca aatactggac gactgcatgg 1500
 ttcatgtcta tctttggtga acggttgctc ttctgacaa ttgtctgcgg cttccagaat 1560
 atcctcatcc aagacatcca tatcgaagtc gtccgaatct tccacggcg gcagagtaga 1620
 acccatcttt ccggtaaagg tcgtctcatt gtcactcgtt acttcatggg ttttggtacg 1680
 attagcctcc ggaatcccg gactaccagt aaaagagctt gttcgatgat ttgaagtaac 1740
 caggcgagtt tcccttgctg cgtaatctgg tctaaaggca ctattgttag cgacaggact 1800
 gttgcgataa cttttgttct cagcgccgcc agaagtgcta ggcgctgtag ttgcaggtaa 1860
 agaatgtaat cgctccagtt cgatttctct ggtttccaga gagaactctt tcatgaccga 1920
 gaacaagtcc gcctctcgta acaggagaca catgttagcc tccatatctt tcaattgcga 1980
 cgtaagttcc ttctgctggt caattttcgg caacacatcc gatgtacctt ggttcagggc 2040
 atgcataatg acatctttca gagcttttga ttctgcttcg cgcgacaagt aggcagactt 2100
 ctgtgcagtt aaggccttaa ctgctcggat ttgagctgtg agtgtgccgt tctt 2154

<210> 2983
 <211> 227
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2983

acctctaggg atcaagagat ccttccacct cagcctcttg agtagctgg accacaaatg 60
 tgcaccacca tgtccagcta atttttaaaa tttttttag aaaggagtg tcactatgtt 120
 acccaggctg gcctcaagct cttaggctca agcaatcttc ccatctcagc ctcccaaagt 180
 attgggatta caagtgtgag ccattgcacc cagtctaact tttttt 227

<210> 2984
 <211> 1477
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2984

cacgcctgcc gttttcacgc attgagtcaa ttgattcatt gtcatagggt gctggagaat 60
ctgggctagg aaagaccacg ttcacaaaca ctctgttttc caccaccatc aaaaactatg 120
ccgaccacaa acgacgacac cagaagcagg tcgatcgtac tgctcgagatc gaaatcacta 180
aggcagaatt ggaggagaag ttcttcaaag gttatattga acggccctgg tccaactagg 240
ccactgctaa caagaattgc gctgtatagt tcgcttgact gttattgata cccctggatt 300
tgggtgactat gtcaacaacc gcgattcctg gcaaccgac atcgagtttc tcgacgacca 360
gcacgagtcg tacatgttgc aggagcagca gcctcggcgt acagacaaga tcgatatgcg 420
tgtacacgcc tgcttgtatt tcatccgcc aaccggacac accctgaagc cgctggatat 480
tgaggttatg aagcgctga gctctcgtgt caacctcatt cccgtcattg ccaaggccga 540
tactcttagc cccgtgacg tctctcgttt taagcaaagg gtacgccgtc ttgcgccgta 600
ttaacaaatc cgaagggtga aagctaactg catatcatgg ttaacagatt caagcgggta 660
ttgaagccca gggcatcaaa atttacacac ctcccattga agaggacgac gagactgccg 720
ccgctcacgc tcgcagcctg atggcggcca tgccgtttgc cgtgatcggg tccgagaaag 780
atgtgaagac gaacgatggc cgcgtagtca agggctcgcca atatgcttgg ggtgttgccg 840
aagtcgagga tgaggagcac tgcgacttca agaagttgcg ctcaattctg atccgtactc 900
acatgctcga ccttatccac acaaccgagg agcagcacta cgaagcatac cgtgccaac 960
aaatggagac ccggaaattc ggcgaggctt cggcccagga aactcgacaa cccaagttc 1020
aaggaagagg aagagaacct gcgcaagcgc ttcaccgac aagtcaagct ggaggagtca 1080
cggttccgac agtgggagca gaagcttatt tgcggagcga gatcgctca caaggatctg 1140
gaggctaccc atgctgcgta tgtcccttga ttttctgtat atgctcgtcc aggatcgttg 1200
ggctacttgg atcagcatca aagtttcgaa gcgagaccaa agccgcaagc tattgctcgt 1260
agcacggcgc gttacattt catacactga agcggggagt gccgttacgc cgggaaagcg 1320
agggcataac tccaatctta ctgcaccccc tgcgtttttt ttcacataggca aattgaccgg 1380
attgcgaggt tctagtacca aggttacgcc acatgccgtt atgtgctccc gagtgtttta 1440
aaccctttcc ctaaacaaaa attatttgtg tgggggt 1477

<210> 2985
<211> 1589
<212> DNA

<213> Aspergillus nidulans

<223> unsure at all n locations

<400> 2985

tcacttgagt gaaactaccc ccgagtataa taaaaatagc cagctgcccc tagaagaatc 60
tattgtttcc ctaaaccacc caagtattta ttaaagtcag aggccctggc cgtttagtcc 120
ctcaaagcta tgccatacca attatggagg catctattaa ccgttggtcc tgaccaaatt 180
gccctctgt cagtttctcc aaaacctact agtacggctt tcggcttctt taatgtccgg 240
ccggtggtat tagccagtat atatcaagct tcagtcatgt cgaaatcatc gttccataaa 300
gaattcatgc cttcatgaca agaaagtaca gcctagcccg gtaaacaagg aacggtcaca 360
acatcctcat gacgaggcgt ccaagggaag tgcgaccgag acctaattgt acccaaaggg 420
aaggctcttg atccatccat caggcacaga cggcccatgc ccagaccctc cctccttgga 480
gagccaacac gatcatgtct agactcagta aacagaatag aaactcctaa gagcgcgata 540
cgagcatatg tgggtgaatt ggacttgagt ctttctcttt aggcataattc tttcaatggt 600
agatgcgtac tacgtagtaa gtagttagga gctcttatga tgttgcttct cggtgttcaa 660
caaaacactg gatgcgggtc tctggcagat ttagaaaata agataaatat attcaaagtc 720
ggtggtcctg taggagtatt ttaagggtca ttggtaaaga acgcagtggg ttgattctaa 780
taatagctga gagatggctg gagacgcacg cgtcaggcaa cttcattgca acctaaatac 840
caggaccaag cgatattcaa agaacctaga tgggaaaggg tatgcgtacg gagatggtag 900
ccatgtctac gcgggatggt gttacatatg gtgggtagaa cctcagaaga gttgcgagcc 960
agcgaaataa gcagaaggca ccagagtagg tattgaacaa gcataggcca ctaagacgct 1020
cacgaatcat atacaccaga accagaaccg gagtcagaac cagacccaaa ataaaaggaa 1080
cgcaaaattg tataatcaac cacatgttgg tggcaataag agagttttgt tgcaagatc 1140
aggaattggt attcataggt gagnaagg gagtatacat agcgtgtcag ggtgggtag 1200
aaagaggata gccaggggag aaactggttc ctgcaggccc tctttatgtg gccgcgttgc 1260
tagccgctgc tgccttcgag agccgttctt cgacacgttc tttgtgttgt cgatttcgaa 1320
gatgaacctc aaaattatcc accgtcgtag cagggccagg tgtatacagt ttccggggac 1380
aatcgtggca cctgatgcgt ggaagataga ggaatttcaa cttctggttg gcttgagcct 1440
gcgagtgggt gacgggttgc atggtttccg tatctacagc cgtgtaccgc atcactgctt 1500

cgaaaaagtc accccggccc gcctggttga gtcgattgag tcttgaaacg aaccaactcg 1560
gagggggggg ctagaataaa agcatcagt 1589

<210> 2986
<211> 4699
<212> DNA
<213> *Aspergillus nidulans*

<400> 2986

atcctgcatt cctcttctct cctcatgtat cctttgtatc gcctccacag ccatcaatct 60
cctttttaat acctaactgt ttgggataac ggtgtcagcc cgtccttggg tgtctttctg 120
ctctcgctt tcaggaaggc tccgcgtcgc aaaccatcat gggcctctcg aaaaccaaca 180
ggattatgat cctgttggc attgatacgg cgttctttt gctggaattg attgctgggt 240
tggcacccta ggttttggca tccgcccgtc tacttatacc ctctaccagg ttactccgtc 300
cactcgcttg cctcgtcgc ggattcggtt catatggtac gactcatcga acctactctc 360
tacatatact gacacgctct agctgaatga tgtgatctcg ttgctcgtcg gattgtgggc 420
tgtcaaagtg gccaacccgc aaacgtcatc caagatgtac acctacggag tgagtgtcgt 480
cccttcttac ccgcccctgt tggaatccgg cctgactgtt ggatacagtg gcaacggggc 540
gaaacctgg gtgcgctagt caatggtgta tttctcggtt ctttgtcttt atctattttc 600
ctcgaagcga taaaagatt ggttgagcca caggaggcca ggaaccccaa gcttgtctgc 660
ggagtgggat gcgccggatt gctgtcgaac atcctgggac tggttctgtt tcacgatcat 720
tcgcacggcc acggccacgg acatggacac tctcatgagg atgcggaggg cgttgatgcc 780
gcggagcaag gccaggcca cgatcacggc cactcgcgtg cggggcgcca ttagcggta 840
aggctacctt tcggcacatt tctatgcaag caatgcgtc agtctgactc gttcataggg 900
cgcaataact gaaccaccg ccgcttattc ccggcgacgg acaattgaca gccagcaccg 960
cagctctcgc cgaggatttg aagagtattg gcggccaccc ggctagcatg aggcaggaca 1020
taattttcgc ggctaaccga aacaaatttc ccgatgagga cgacagctat gagtcaaagt 1080
aacgcgcgga ggacggagcg ggagataatg gcgggcctac tgaacggtcg acgctgatag 1140
gccacacgga ccgagcagcc cattttacag acgagcacgc ttctttagg gaccaaacga 1200
aaaagacct cactgagact acaaccacgc tcagcctaag cccaaggaca aaaagcacgg 1260

ccatgatctc aacatgcgag gagtctttct ccacgtcatg ggggacgccc taggcaacat 1320
 tggcgatcatc ctgtctgctc ttgttatctg gctgaccgat tattcttgga gattttatgt 1380
 ggaccctggg atategctcg ttatcacggg gattattctg gcgtcagcaa ttcctctctg 1440
 caaagctgcc tctcgcatcc tgttgccaggc cgtgccacat ggattaagca ttgaccacat 1500
 caaggaagat attgagagcc ttcctgggtgt caaagggtct caccatctcc atgtatggca 1560
 gctcagtgc actaagactg tcgcttcgat ccatatccaa gtggacaccg agatcaaagg 1620
 cgagggttct gagcggtaca tgcaccttgc caagcaagta agacaatgct tacacgccta 1680
 tggcatccag tcatcaacca tccagccaga gtttctctgc gacagtgata cagaagacaa 1740
 ccagggtggg tcagctcacc tgccatcggg cagtcccagc cgcaccccaa gtattcgaga 1800
 cggcgatcct caggcctgcc tgttagaatg cggcgatgag tgcgccggcg gtcactgctg 1860
 tcccacaaag cccacctaga gtctctaca tccgttatct tttggcctat ttatactctt 1920
 gtcttattac tagctgtttc caaaagagcc tgccccgacc ttgcattgtt tataccccat 1980
 tctcaactg tgtcaaatta ctctgttgc gtcatatgac tacttataga tagcctaata 2040
 ctacgcatga tacctactct gagatattct gcaccgtcac cattgctttt aggcctcga 2100
 ggatagttga cttgcgcttg gattgggacc gtgatcagtt ttgaccgcac catggaatag 2160
 tgagcaaacc gtatggaaat tttggatatg tctgataatc taaagtcagt tcacaaattc 2220
 agaaccggtc ttcctaaca gagtacaagt gttgggtaac caagcgtaga taaatagtct 2280
 cacgtgacta ggcctgtcg atcgttgagg ctccctccct gaatcccagc tatttcgggg 2340
 tcgagacctg gaggttccc cgtgccacga ctcatctttt atggctccgt cctcagccat 2400
 ttcaaccatc tactaccctt gaacacgatg tcgtcgctta cccagtaacg tacttgagct 2460
 aatcataaca agctgtcaca acgggctttc gaacgactcc ctttaaccag caaagtggcc 2520
 tccgacatc cgcggagcaa tgtgccgacc ttgagcgctt ttcaccaccg ggttgagctt 2580
 cgaccatgag ttattcttac ctacctaga gcacccatgc ttacggctct gctcgtcgag 2640
 agattacctc gtcgggtatt ctccaatcca tacatgatgc gctgccgcac tgggtttcgc 2700
 aaaggatgtc gtcggctcgc cacacggcgt cgaatcagtt ggaaaagtac aagagtcgga 2760
 ctgagctgaa agcgtcaca ttgagaataa tacgaacct ctttacggtc acaaatggac 2820
 tgatcattat atggatatgg acgctatggg ggggagagcg gaccgtgttc cgcgacagt 2880

tagatgctg cgcttgggac gcttgggaga aatgggtgag cttgtcgcg gcattattca 2940
ttgaggtaat ggaacaatgc tgatgtttct tatttagccg agcaatgcta gacctcatca 3000
tgtcgcttc attgcagacc cgcagctcgt tgatccgcac acttaccctg accgcccgtg 3060
gcctctgtct accctcacca tcaaatttac agaccagtac atgcgtcgct ctttctcgtc 3120
aatacaacac acgctggacc cggactcggg gttattccta ggtgacctct ttgatggcgg 3180
aagggaaatg tcgacttccc gcagcagcag ccagaagag cgttggagac aatacaacga 3240
tgattttttg aagaaggaat tccatcgctt tgtaaaaatc ttccttggtc cgtggagtag 3300
ccaggagaca cagtctacga actcgcgagg tcggagattg atcgccagct tgccgggcaa 3360
tcacgaccag ggtttcggct cgggggtcca gctaccagtc cgcgatcgct ttcagaactt 3420
ctttggcaag ggaaatcgag tggacgttat agggaaatcat acgttcgtct ctgtagatac 3480
tgtttcgttg agtgcgatgg accaaccaga tccccgtact ggaagtacgg gtggtggaaa 3540
cggagatggc gaccggccaa accaggagat ctggcaagag ccggaagatt ttctgaatgc 3600
catgaaggta caccgcggtc gcgcgagggc ggacgaactg cgtttcatgg gggaaccaag 3660
aaagggtcgg ctgttcaagc atgaagtttc cgaagtctca aagccttcga tataccgaga 3720
agatgaccca gagattatcg gatttcgggc tacccttctg tcgcacgtgc cgttgtaccg 3780
caagccagcc acgccttgtg gaccactcag agagcgatat cctccctccg cagatggctt 3840
agaagaggac gagcaaaacg cgcttaagat cagtggcgga tatcagtatc agaatgtctt 3900
gactaagaca atctctaacg acatagtgtc caagattggg cccaacctag tccaggtata 3960
ctctggcgat gaccatgatt actgcgagat ctcccaccgc gagttcagcg gttcggcgaa 4020
agagatcact gttaagagta tatcgtgggc aatgggggtc cggaaccag gctttgtcct 4080
gacaagtctc tggaatccta tcgaccctac caccgggacc tccatcgagt cttccagccc 4140
tggaagcacc atccaaaacc acctctgcct cctccccgac caactttcca tcttcatcta 4200
ctacggcgtc atcctagcat tcacccttac cgtttctctc gtgcgagccg tcacacctgc 4260
tctccgcgc accgaatcta caaccccgga acctatcctt ccgctcaccg aaaacccgt 4320
aatccgcacc cgcagccgag ctgtttcgca tacatctctt tcgagcatcc caaacaccgc 4380
cttcatcaaa ccaggcgggc tagctagccg cgcgacgaat aattacaatc cccgctattc 4440
cccgccacac tcgtataatg acccctcggc ctaccccgac tctgactaca ttggggaaac 4500

cgatacatcg aaatggaagc cgagccacgc ggatcgcgcg cggcgcgga gtagagacgct 4560
 ttttggacgg gcgtggacag agttcacccg ctcggtcgag aacgttgcta gggttgcgct 4620
 ggcggtggtat ttctttttga tttgaatgtg gtgagatttc ttgacaaggc gttatcatcg 4680
 tgcatataga ggtcttgtc 4699

<210> 2987
 <211> 1349
 <212> DNA
 <213> Aspergillus nidulans

<400> 2987

aagaagcgta gatgaagcag tagcaggagg atcacggatc aagagttctc aactgctggg 60
 tccagatcgc cccgtggaga agaattaatc tcgatgacct tacgagtcag gacctcacgg 120
 ctcccgactg gcgtactctt aaaaggacct gatttctctg attcccgctt cgattacagt 180
 attggctcct ttctttgccc gaggtccttt gtaaacagga cacagcactt aactggcact 240
 atactccgca ccgagtgcag attattggct tcagcggaca gggccccgta ggctattccg 300
 agtcttcttt gccgtttaca gcgtactccg tagggggccg acgacggtgc ttgcttctgc 360
 tccaccgagc gatctcttgt ctttgagacc cagtcacggc ccggcatcag cggcagtcac 420
 cctacaggaa gaggaagagg aagaggacga agtggaagaa ggagcgtttc ccagatacac 480
 attcagatac acattcgaca tctcatacgc aggaacgaat tctgcatcta agaccaaatac 540
 ccggatttgc tgctggcgcc tctactaggag cggcaagcaa tatttcgatc ggtcatccag 600
 atcctggctt gtcgatggcc tttgcagatc tttcgactcc tctagcctcg actctagcct 660
 cttgggagaa gaggtgtcca caaggccgcc accatcgttc ctttccac cggttgaccg 720
 aggaccagaa aaccccgtaa tacccaagcc ttggagcggg agctagccat cagtaataat 780
 tataattatc ctactaataa ttataatgct gattatTTTT atctttattt ttatttttat 840
 ttttttttgt ttggtttcat ttgatttaac ttattttatc ttatttttat tatactatat 900
 tattttatta ttattatttt ctacggctgc ttagtatgat atcatgcac cgtagtggcc 960
 ttcctattgt ggttccaatc gccgaggtcc agcagaattg tccttattcc cagttcacta 1020
 aagaatggca tagatcggaa agccgcagct gaggggggaa gggttcggca cctgccaggg 1080
 agtctagaga cgctcgagag ccgtcttttc aggagaccgc gagcaagacg ccactggagt 1140

ccagcaaaga atagcaccgg ttcccattaa ctcaggtagg gaaatgccag ttgactcgcg 1200
gaccaggtag agttcgacag cagacatagt gtctatgcct atatgttgct aatatccgta 1260
gttcttggtg ttgcaacagt cggtagcgca ccggaatgtc atgactcgcg atgtaaactt 1320
tgaggtcttg gtcgatctga ccattgatg 1349

<210> 2988
<211> 1281
<212> DNA
<213> *Aspergillus nidulans*

<400> 2988

ccatagctcg tatcgccgg cacagactta ctcaatatag ctcgatggta ccgtcgagtc 60
gcagtgcgat ctgacgatct ctgcatcgac aagtccgcc agtcgcagtc gagtatgata 120
cgacatacgg tatctgagcg taagttggtg aatgggcagc cagtggagag tcagccaaag 180
gcatgaaatg accccgagga ggccgatcag tcgggggaaa acgcgacggc gctgacgggt 240
gctcggaacg gtagagagag ggaagtggtc tctgcgatct agatcccctg cctgcttctc 300
catcataagt gaagggcaag cgttcgttcg atgtgggtga caatcaaggg gagagatgcg 360
atgatgggtc gatgtcgatg atctaccgag aggtctggag tctggagtcg agtttggtct 420
cgtgtggggg atgaccgcac acgccgagac cactgcacc ggaatttggc gcccacacac 480
gaaaccgcac tttgggtcta catcagctgt atagaagtgg ccgagaacgg ttccaacagt 540
ggcgcttggc catcctgatg attttccacc aacaagagct tgatttgtgc gagctcgccg 600
caggaacact ttttcgctgg cctctacggc gcttattgcc aggttcgcct atcgaatcct 660
gcattgtcgg cgccgattaa cagccaagaa gaacgggggt tggctcaaag taaaaggaac 720
ggcagaaagc aatacaagtt acgtctgata gtccattctc ggtcacagcg caggtagcgc 780
tgctaagggc tctcaaaaat tggcaatgca cagacgaaac atcacggaat caaaaacacc 840
tgccctgaaa ggataaaaat gtcgcatact gctaccttac aaggtgcctt attgaaccgt 900
taaattaaat tgctactgct tacaagcgct tacggtactc atttgtccac ccactttctc 960
gaagctaagc ctgcctcaac cgccaacttc atctcttggc tacctatctt ggccacacac 1020
tctgcggcgc tcccccaaga cccctcact gtgggatctg ctccattttc gaggagccac 1080
ctaactcgct ctactgcacc cgccatgaca gcctcaacaa tggcataatt ggacacttgg 1140

tttccctctg gggcccttga taatgactga catgcgggtcc gcgttctaca agtaacgcca 1200
 tgaccggaat cctacttctg tcgaagtcct tgctaagggt ttgatagcca ttacgtggat 1260
 tccaatcggg aggacgggct c 1281

<210> 2989
 <211> 4755
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2989

gggaccatta cgcaatgttt ggtcttggag tttggacccc tctctcggg acccaaatgg 60
 ggcagcctaa aggtgggttc gcttgttaga attccataac gccttctcta gctttgtgca 120
 ctagcgggga atctgttttg acattcatac cgggctgaac cggccaggca catgatgcca 180
 caggtttggg agccctttcg acttcgacga gacacatgcg acctaacacg agccaaaatc 240
 agtacagctg cccgaatcaa ttacagtgt tcgaggctta cagtttcccg cgatcattag 300
 cttcctataa agtgcgttag tagccgacaa cggaagaggg tgagggggat aagaggaggg 360
 gctggcgtag tcatggtaac agtatctatc atagatcggt agcatcgatc aggtatgaaa 420
 gcacaaggtc catatcaaac tatacctagg aattgtcgct ccggctttct cgcagtgttg 480
 aatgagagcc gagccagctg cgttgcaggt gagtaccgtc cttcgtaaac atttcagcaa 540
 gatagatagt taccttctac cgaaaccttt ttgccatcta atgcccgga gtagtcagca 600
 actgatccgt actattaggg atggtgtcga ggcataccaa ttgtaagctc cacctcagca 660
 gagcgaggaa ctgtcgtcac gaaggctctg gcagtgttga cctttggaac ccggacagac 720
 cgggcccggc cgcgaaacag ctgcggccgc atgctgtaaa gaaagaaaca aaaagaaaaa 780
 agaaaatggt taactagagg gtgacaatgg aatgaagtgg ccgatgtgca gcttgagttg 840
 aagctgatag gtatcgtttg gttaaagcac ttttggcgta aggttggatt ctcaagcccg 900
 gcccgggcgt tcaactcgaa attgccgcct tgagattggc tcggcagtac ggggaaactc 960
 agagtccgaa ccgtaccctt tttcttgctt tctcagcaat cccggttcgg tttttctttc 1020
 tttcctttcc atctcatttc acgggcatgt ttattgtagg aggtagggcg tcgccgtctc 1080
 tccctctctt gcatcatgat ccaagagcaa gatgcactga gctggagcac ctgaaggcca 1140
 tcgtttccaa ttactggcga agatgcctac tgaggggtat agttccttac cgacagcggc 1200

aacatttcca tttaagagcc agccaatgta acttaagttc gctttcttcc tagatcacac 1260
 acacttccat tgtttacgcc ttctgcttga tcatctggaa ggtgcatga ataaagaagt 1320
 aatgatagga tctcgtaa at ttgtttggca atattggacc tcccgtaggt acagacgcaa 1380
 tttcagggct tcatgcattt atgtgttga aaagcttgca aagtacctgc aattagcaaa 1440
 gctacaccca aaaatcgctt gtttctatct gtgctccgaa tttcaatacg cgcatttgaa 1500
 tctctatctc tataaagtca gaactccatc gatggtacac aatagaagca agttagcttc 1560
 aaccaggac accaaatata aagcaataga ttattgagc taggaatagc cgcttaagag 1620
 tgccttgact gccaggctgt ctctgcttt gtaccagggtg gcagccaagc tttcgtgttg 1680
 ctactcgctc ttgggcgtgc atgaccgacg ccgtcgctct tttttgagtt actggagatg 1740
 ggaaatgaac ggtccaagac gtgctgggtc acaggcctcc cttgtgggat cgcataagca 1800
 ttggatcccc tgagtttgc ctgctcgctg gtgttcagag ggagaatggg atttttgaag 1860
 tgaaagtggc ccgcattggc tttctggtct gcgacgtcat catggctatt gcggctctat 1920
 aggtatagcc caaggaaggg tgagggcaat tccaaagccc tgacgggctg agtagaatta 1980
 ccaaaccaaa caatcgcgac aacgatcagc aaaacccttt tgataagtga cgcgacggaa 2040
 tatgagacag gcgaaaccat agaaaggagg acgaacgcca agatattctg agcaaagtga 2100
 gacacccgt tgaacacgaa ttcgaggaaa agggcgccat gatccaacga tccagctttg 2160
 ttcgtaagag agatggcgcc atcttgcac agatcagaga ataaggggta gccctcggtg 2220
 accaaccaaa tgggtaattg caggataaaa gctaaccag agcaatagta gagtaggttc 2280
 aacttgtcca gtttgcgcg accagcagac tgtatatctg actccgcacg ctcggtctcg 2340
 ttgaagagtt ttttagagaa tatattctgt gatacgaaaa caagggtgc aaccagcgca 2400
 cataggatgc cgaaaaaatt cgtggagaag cctgtggaac aagcaagcat tacaccaag 2460
 gtcagtggca cgagagataa ataggtcgcc ttagcatagc gaatgcgga aaggaagcgg 2520
 tatgccagca cgggtgaataa tggcgaaagt cttttgatag tgtgcacaag cgaaactggg 2580
 atttggaag tggccattga actcaagata tgacctgcta gttggaatat ggagagaggt 2640
 agcgccgtca ttatcacatc gcgtgacggc gggcgatgtg tgttcttgag agccggtatg 2700
 ctggttttaa gccatggtaa cttggtggac aggtacgaaa gtagcaggca ccacaaggac 2760
 acgaaggcga actggaccat tgtgagagta atgggcctcg gaagcgctt caaaatggat 2820

tttgaggacg tattcggttaa tgctgaagta gtataccaga aaaggcagag catctgcgga 2880
 cgagtaagcg actgcaatag gcgacggggt tggaaagccg tactatgagc ctgtacgaca 2940
 caggtgctct aagcgcttga gccagatctt gcgcatttgc actaacacta ccattgcgag 3000
 tcctgatggc acttatgggt tcgctgatgc tctttctcgg ccttcgtttg gaatccccga 3060
 ctggtttata gtcccagcga tcactgggcg catatctgac tgttggtgtt gggtaaagt 3120
 ttgtcggctc cggggtgcc aattgctcgt cctggaacgc tggaaactta tctattggac 3180
 tggccatggg ctcagggcta gatactctga ctgatgtttg caggtcgggt tgtcgtatcg 3240
 aagagcgccg cccagtccca gtcactatag tcgtggatcat ttccttcccc tttccgggca 3300
 cccctatgcy acggacttca aattggtagc agaattgagaa aagcgggtcaa agccaggata 3360
 atcgaacat gtacgttgct caaatcggg cgctgaggcg ggatacggcg aggttgccgc 3420
 tccggtagca cttcgaattc cggaggtatt cgaaggctag attatgcagc tatcaatgaa 3480
 gctaactctg gtcgagtaag ctgtggagga tgttataaca tgagtgcgct ctaagcagat 3540
 gttcaggtac tatccattct tgtcaccagc gttatcgaaa cgcgaaactca tcacggtgtt 3600
 ggaggagttc ttaatgtctg acgggacgag caaccacta gcgtaatttg gttttagcgc 3660
 ggtctgagat gacgaatcac cgaatcacta ttgaccagta ggatttgaga aatggacaac 3720
 gctgcgagac cccaggctct ggggtctcca ggtcccgta gtcccgttaa agtcagtcga 3780
 atgctcgcca tgtgcctagt aaacactgga aaagctataa tagagttatg agattcattt 3840
 cccacacaaa ctacttgca acatattaac tataaattga gagagaataa gcagcagaac 3900
 ggactatttc tagtatctgc ctacctgac aaatagacta aagcagattg cgaggagttt 3960
 ctgaccagg gtccggagtc ctcagggtac attaccccc gcctcattga gatagggtca 4020
 tccccccagg gaggatatta cagccacgcy ccatcagttt ttagtctcct tgacattgag 4080
 aatgatgttc tgcctaggac acccacctgt tctcctggca agaattgctta tccttatagc 4140
 attgtgcaac agtgcattgt gtggcaggac tcctagccaa caggactaca cgtcacctcc 4200
 ccaatattct ctgaacaagg acttctcaga tgttcagtta tccgaaaagt ggcaggctcct 4260
 cggcccttc caatatggga caagagggtc gtcttcatac gattaaatct actaaacgaa 4320
 gtaatatgcc aacgctatct ttaaaccgac ctagaagcca tttggggggc agatccccta 4380
 gagtaccggg gcggatttcg aaacgtatcc tttgatgaag aagttgaata tagcagtcct 4440

ctttccacag acggattcgt gaaatggact catgttaggg ccaacatcac gaataccaat 4500
gctgaacaga gcagagcaga gcttgctgtg gccttccttc aagtagattg gggattactt 4560
caggctgtct acgggtgggtc tgcgttgcaa tatcaggcct ggacgcgcgg gtatatgtac 4620
ttgaatgggt caaatcatca agcagtcgca attttcacgg aaggtatattt ggagctatca 4680
attgacgggtc aacggcactt cgggtggatg tctacagtta tcgcagagca ccttgatatt 4740
gactattgcc ccggg 4755

<210> 2990
<211> 1547
<212> DNA
<213> *Aspergillus nidulans*

<400> 2990
agcgccccta gcatagggtga tttactcttc tttactaaat cgagtaatgg tgatctagca 60
atgtatctca tctgctttta tgggggtaat gtgaatcgtt tgcagcatcc agcagccatc 120
ttactgggtg caatctgcat ggctggcttc gtatagccat gtattgatgg ggagaatata 180
accaccgcaa acgtactcaa tctgctgtag ggaagccgat tgcgtacagt agtttcttct 240
gactgaccgt aggagttaga tttatatcat tgtaagagca gcatcctgtc tccaccgtcc 300
gcaaaatcat agggcattcc gagcatgttc tgtgagcccg gatgcgagct ctccctcaaag 360
taaagcaccg cctccatagt ctgcgaaacg gcggcttctg gtggctgttt tcgccagcct 420
gtctatctta gttgctctcc agcgtatata taaagtggta aaagaagcgt ttcagcttcg 480
aattgtgcca ttatccaaac cagcatcgtt gttatttcaa gatttacaa gtccttgagc 540
tcaaaatgaa atcctccacc attgcgctgc ttagtatgct tagccatgga atggccttgc 600
ccacacccca ggcaaccgag ggtgagaatg agcagaacaa ccaattactt accgctaagc 660
taaccatatg actgaagacc aagcgcctaa tttagatgcg ccactacat gttccagcaa 720
cccaggcact gcagtcttcc caagcatggc cggctatcca ggcttcatgg gtggctggcc 780
cgggtgttctg ggcactgcac cctcctctgg cacatacggc aattctgggt tctatggatt 840
cccgggcttc ggtggcttcg acgggtctca cagcatgcct ggaggtgggt gcggagcacc 900
aacgggatca atcacggcag gacctgctgc agccagttcc cctggcttcg gtgggttccc 960
tggctttggg ggtttccctg gtttcggtg ctccctctggc ttcagtggat tcccaggctt 1020

tagtggattc ctaggttctg gtggattccc caacttcttt ggtagtagct tgaacccaag 1080
 cactactacc caaggaggca tttcgcacaa tgcttgact cctgtgccac accccttac 1140
 taaaggcgaa gatttgaag acggggcaga aaatgcaaaa gcggatgctc ctcaagtcaac 1200
 acccaaagac gaccgcccgg ccgataatcc tgacaaggcc gagatgattg acgccacgat 1260
 agaacacatt gatgcacctc aggcggctac agcagccgct gtaccttctc ccacggcagc 1320
 gccctagatt gagtgatggt gcaccgggca tggggaaatc tcgagcctca actcctacag 1380
 ggaatacggg agtatttact gagtgacttt cgatcgtggc ttttgaaatg tgaggggagt 1440
 atgtgcccta actttgcttg tagtgctggt atcggatagt gttggggaat taatgggaat 1500
 gttatttggg ccaacattac ggattcactt gcggcgaatt catttat 1547

<210> 2991
 <211> 2530
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 2991

attttctcgc gcagctccgg ctcgaaaacc tggatgatgct gcgacagcat atcgatgagc 60
 tgctggccaa aatccttcgt tatgtcggga tagcagtctg caacatgggc aatgaagtgc 120
 ataagttcac gcagcgagat cagacctgtg tctgtggcgg acgagggcgc tgccatgaaa 180
 atttcccggt gactttcata ttgatagtgc tgggcgcgga aatcttcgat ataggacctg 240
 aggagaaaga atggtcagga tacgttcaag ttagtcttg ctgcttttca tgcgacaact 300
 cacttcggat ctctgcggat tttatgttgt aaattgggcc tgtaacggag gagatatatt 360
 cattagcgac agatgaaatt tctgggggac aggcggccgt gataaacgta aagaggagta 420
 atacatacaa atcagcctcg accttttcca gggccccag cttcctcttg accatttttt 480
 cgtgaagaaa agaatcccaa ggtattgtcc ttgatgaatt agagggagtg gccgaaaaaa 540
 gagatgttga gagatcgagg ttgtcgcgcc aagaagcaac tttttttcag actgggaccg 600
 tatcgataac gttgtcggag ggtctgcgcc ctgcacattt aaccattggt cataatttaa 660
 ggacttcatt acagcaatct gactctttag gtggagtga acagaagact tcttgagttt 720
 attattctac tgtatcattt tcattgggat ttcagaaatg ataacttggg tagacagaaa 780
 agggaataaa ttttcgttta atagggatgt tcgtggtcgc atccaaacta ctggaggaaa 840

gccgtccgat tctctcatat tttttggatc tcactccctt tcgtgactgt gcaggtatat 900
 acagccgtgc agacgtttgc aaaacgactg aatcccagaa actccccgtc cactccagta 960
 agcatgaaat aggaccataa acggagaata cacccaacaa aaccgtttta ccggttgctc 1020
 ttagccacac gctcaagctc gtccttcttc ttgatagcgt aggagttgga gctgcccttg 1080
 gcggcggttg taagctcttc agcaaggcac tcagcgatgc tcttgatgtt gcggaaagag 1140
 gcctcacggg caccgatggt caggagagcg atggactggt tgacacggcg gagaggagag 1200
 acatcgacgg cctggcgacg gacggtacca gcggaaccga tacgagtgtt gtcttcacgg 1260
 ggaccgcagt tgacaatagc atcgacggcg acctggaggg ggttctggtc ggtcatgatg 1320
 tggatctgat atcaagtcag ttttctgac cattattcaa atactcaacc agtttgccgt 1380
 atgtgggtac acatacgatc tcgaaagcgt gggcaacaat gcgaacagcc atgagcttct 1440
 ttccgttggt gcggccgttc atcatgatag agttggtgag gcgctcgatg atggggcact 1500
 gagccttgcg gaagcgcttg gcggcgtagc ggccagcggg gtgaggcagg tagacgggag 1560
 agcggatctg gatgtagtcg ctgtaggcaa ttgcaggcca gcgcgcgttt accctcgatg 1620
 gtactgtgta atcctctatc ccattgctatt cccttgcgat tcagttgccc gtctgcatcc 1680
 cttcaatttc tctcccaact gaacgcaata agaccggtat ttgccttaa aaaaaccctc 1740
 catcgtagta aacgcaaggg gacacaaaaa aaaggagatg tccctgatct caacatacct 1800
 cggtagcacc acttgtaaaa aagcttaacg gttcccatct ccgcgagagc atccttgggc 1860
 agggagtcgt aaaccccgcc ggggatatcg acctcgactt caccgtgttc agacattttg 1920
 gctccgtatg cactgttgtt cgagggacgg attcgtgagg tgtgtcggac ggtttcgttg 1980
 gttggcgatc ggtcggctga aatgtttctt cgacaaggga aaatggaggt gcgcttcgct 2040
 tagcactgtg ggtgggttag ggcaggccgt gtagcgaatc aaacgccgtc tgtcatgtga 2100
 gcatcttgcc aatagtctgg gcggtgatag tctaataatg gttagactca tcttccaagt 2160
 tccagccttc atacctactt ctctatacat aaccataatc ccatattcct gccctactcg 2220
 gtggtatttc agttttctgg ctctgtcccc taggatgaga cgaggcacat ccggtatacc 2280
 attgatacgg cggaaggaat tcaacagcgg ctatatactc gtctgaattt gcgtcgatct 2340
 caccctgtag tcaactagct gcttgttgtt acttagcatg ctctctgct cttttgagt 2400
 aattggcttt ggcactatat tgatcctggg atatttcagt gactactccg tattcgaagt 2460

tatatggtag ccgcttacgg aatatgggtg gggcgcatta accatttagg agacttatat 2520
 atataactcga 2530

<210> 2992
 <211> 1172
 <212> DNA
 <213> Aspergillus nidulans
 <400> 2992

ggacacggcc cgaaacatca gtgcactctt atcgataggc acagccgaat atcacagccg 60
 gcggtaatcc ccacttcccc tctttgtggg ggcgctgcat ttcaaagcag ccaaagcacc 120
 ccatatttca tcatcctggc cagctttttac acaacaagaa gattagaaat ccaccgcat 180
 aaagtgcgct atataacccc gctctccctc tctcctcttc ctttcccga ttgcactctg 240
 aaagatcacg cccgtctatc agcacaacat ggccgcccc aagatcatcc tctacacaaa 300
 ccacctctgc ccctgggctc accggetca tatcgccctc aaggagcttg gtctcgagta 360
 tgaggagggtg attattgacc togcaccccc gcgcgagccc tggtagctcg aggtcaaccc 420
 ggtacgcacc ccttctgagt gacatttget taattctcta ctaaccataa cgtacagcgc 480
 ggccttggtc ctaccatctc ctacaacggc accgctattc ccgaatccgc catcgttgcg 540
 cagctcctcg ccgacgcccc cccagccac ctcttcccc cgtctaacac cccgaaggg 600
 gccatccagc gtgcccacgt ctcttttttc gtgcacacct tcatcgga ggtctggctg 660
 caggcattcg cggcccagaa ggctgcgagt gaggaagagc gcgccgccgc aactgagagc 720
 attgtcgcgg ctattgagaa gaacaatgtc gagggtttgc tgtaccgga ggggactggg 780
 tcaggacct ttttccgcgg tgcggagaag ttgacgcagg tcgaggttct gacgggaagc 840
 ttctgtgtgc gattgtcttc gttgcacaag tatggtctgc tttccccaga gctgccgagc 900
 cagttggaga agcgggtacc gaagttctat aaatgggcgc aggaggtcgt caagcaggag 960
 agtgtcaatt atatctggga tgaggagaag gttggcactc ggacagcgaa gaagttcggc 1020
 gctgcaaaaa aatgaattgt agggagatac tctataataa gccctaattg ggcaggtgct 1080
 gatgtcttaa tgattcaatg tgagaaacac ctcttcagc gcttggccat gctaaccgcc 1140
 tggcacctat acgtgcaacg ctgctcttgt cg 1172

<210> 2993
 <211> 1444
 <212> DNA
 <213> *Aspergillus nidulans*

 <223> unsure at all n locations
 <400> 2993

```

agttgatggt atagttgcct gccatatctt ccacatggca gttgctatac acgtgccacg 60
aatggccgga aggatctcag gtgtatggac tatttattct gtgcggacgg cgccagccgc 120
agtcccagag tgcctagtct tgattcggga acccattaaa ctcaacgtcg tttatgttct 180
agcgactgga aatttgacga ctgtagcatt tttttcacgc cttccgtggc tggacatgtg 240
tacttgaaag ccgttttagct attactctct agagagccaa tcttcggtgt ggcttggccg 300
atctctctcc aagtagccag aaatatgtct aatcgtatag aggaccgact cggcttctgc 360
cgttctttct gtctcagact tggactatgg gcagaaccac cttgtgcatt ccacaatcca 420
tttcaggcta aggcctgaat gacgccttgc tgcactgag caaccctcag aatccaaatt 480
ctggctcttc tagaagctcg tcgaaccaa catcaaaccg cggctcattc atctccttag 540
gttctacaaa tgacccgta tcatagatct cgattccctt ttggatcatc aatgctgcag 600
atccgaaaag agccagggtg tctgtttaat tgtacgtatg gcccatgtca gccagcattc 660
atgtatcttg agggatcatc agggcacctg ggaaggaatg accatgtttg aggtccata 720
cctgcatttt tctccggacc caatgtttct gggtcagtgc tgaggctctgt taccatcttc 780
gcgattctct ttgcgttttt ccagcctatt aaagagttag tagaagtata taggcaactt 840
cacagcggag ttcccgtg agtcccagaa cccaacacct accatatcca tctcgaccac 900
ctacatctac aggtatgaac ttatctggtc ctgctgcgcc gcgtgtatgc atcaactgat 960
tggttcgagg agcaatatta gtaatggcag atacaatctg ccggcacacc gacacgtttt 1020
cccggggaaa agaaggttat cgacaattta ctcacctcat gaagaattac tttgtcaaac 1080
aaagaaacaa gatcaatggg cgtataatag cgatttgtaa tccatttatc gagtaaggta 1140
gcaagcttgg cccaagttac agcggatttg tctttccacc acgagctgaa cgtcttgtat 1200
tttctcttca tgccgtactc gaggaaccac gggcagaaag tgatttcgca gttttcagtc 1260
tcgtcatagg gacacatagt ccacgcaaga tttgttaagc attcgagcaa ttcggaaatg 1320
taattttcgg cgagaagttc tttggtatgc gtgttgaata acctgatgcc ttttgtcctg 1380
  
```

ctaagttggt tctttatgcg tcgcgagtcg cagtaaaacc tctggcatng caatgaagtc 1440
aggt 1444

<210> 2994
<211> 940
<212> DNA
<213> *Aspergillus nidulans*

<400> 2994

ccgtcgacgt agacagcttt tgggtgcatt caagctcttt tctattcaac ctaaaccatt 60
tcgagttctg atggcaacgt gcttgggctg gtttttcttg gatcttcctc tctacggggc 120
cgggctgata agccgcatgt tatcagcacc atctggcctg gcagagataa ccttgatctc 180
gacatatgac ttctctcttc aaaactccta ccagagcatg gtcgtcgtgt cctctgggcg 240
ggtggtggga aacctcatag ctatcttcac catcgaccgg ctcgacggc gcaacatcca 300
gctcaacggg ttcttctggc tttatatctt aaatatcggt gttggaactt ccttctgtca 360
ccctgaacag aggacagatt cttcgccctt tgtagtatat atatccctgt gtcagatctt 420
caactttggt gcgttcttct cctctactt gaggcttgac taataggacc tattgacagg 480
accaaacc accgacttaca ttgtaagtat acctagatgt gtctgactga gaacgttgct 540
gacatcgat tatagctccc tgcagaactc tttgcaacgc gccttcgctg cacatgccac 600
ggtctagctg cgcccgcggg aaaacttggt tcagtaatcg cccatatatt tatatccttc 660
gtcgactacg gatcggtca taccataaag atgattctag gaacttgctg gggttttctc 720
ttctttggta agtttgccga tgtgtgatcg tttctacaaa gccctgtcaa tacgaatagc 780
ctatcgccct tcatgttggt cggcctcgtc gccacctatt tcttcgtcct gatgttcggg 840
actctgatgg aaaaattaag tcgcttgaga agttggctga tgaaaaaag acggactcag 900
gacctttgca tgagactcgt ggggcagggg gtggttgctc 940

<210> 2995
<211> 546
<212> DNA
<213> *Aspergillus nidulans*

<400> 2995

acatccattc cacgtgaaag attccgtctg cagcctcttt gacagcctca attcgtgcat 60

gctgcagtc aacctcacgg aatttggctt tccaatctc gaattcctcc tttagagagt 120
 gataatctc ccaatctttg tacgtgacgc catccatcag ggcccacctc atgccaattt 180
 cttgtagtcc gagatcccgg acgtcatcga gaacagcaag cgtagagttg actgcgactg 240
 aaacctttcg aataagctct tcctcaaag agacgtgcc ctcctaagg gtgtgagctc 300
 ggtctctgat gataacggca gagtttcgaa cgccctttag tagttcctcg accgcggttt 360
 cttcttcgcg cggagcgtca gtagatggca gagactcagt cagcgcattg atacggctct 420
 tgatggcggc tgtctgtctt tccacgacgg tttccaatgc cattacaagc ttctcacctt 480
 cggattgtgc tccgtccgct aagtaggtat cgacaatttc aaccacacga ctctcgagat 540
 tctcga 546

<210> 2996
 <211> 2248
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2996
 atgaggcagc aaactgtctc ttgagaactg gcacactgtt gcattgtttc tggcctgtcc 60
 tctgaaaaca tgagtttttc tcgtgctttt cgggtctttg caagatgctt cggatgaggg 120
 tttttctgaa gcgcaaattg ctgactcgaa tgactgtctg gtagggccct tactcgaaga 180
 ccgtcaagtc cagcgcgtac tacaggtaag atcgcaaatt ctcgatgcgc aaactgcctg 240
 ctaataaaat ccacagtcgc taccagacca agtaccgccg tcgcagagag ggaaagaccg 300
 actactatgc tcgtaagcgc ctgatcacc aggccaagaa caagtacaac gctcccaagt 360
 accgcctggt cgttcgcttc accaaccgcg acatcgtcac ccagatcgtc tactctgaaa 420
 tcaccggtga caaggttttc gccagcgctt actcccacga gctcaagcgc tatggcatca 480
 ccaacggtct gaccaactgg gctgccggct acgctaccgg tctccgcctt gggcgccgca 540
 ctctcaagaa gctcggcctt gacgaggatt tcaccggtgt tgaggagccc gatggagagt 600
 tctccctcac tgaggctgcc gagaccgagg aggggtactcg ccgccccttc aaggccttcc 660
 tcgacgttgg tcttgcccgt acctccactg gtgcccgtgt cttcgggtgcc atgaagggtg 720
 cctctgacgg tggtatcttc attcctcact ccgagagccg tttccccggt tacgacatcg 780
 aggctgagga gctcgacgcc gagactctcc gcagctacat cttcgggtgg caggttgccg 840

agtacatgga gggcctcgct gatgacgatg aggagcggtt ccgcggccag ttccacaagt 900
 acaccgagaa cgagattgac gccggtgaca ttgaggagct ctacgccgaa gccacaagg 960
 ccatccgtgc cgaccccttc aagaaggacg agtccgaggg cccaagaag actaaggagg 1020
 agtggaaggc tgagagcaag aagtaccgca agaccaagct ctcccatgag gagaagaagg 1080
 ctcggttga ggctaagatc cgtgagcttg ctgcttaaatt gtttttctct tgaccggaag 1140
 gcggattgat cgtacttgat gcctagctga gtgcgatagt caaagcagaa aagtttactt 1200
 ttgtccacaa tatagggctt gccagtcgtc gattcttcag atatcctgct tgtagcttga 1260
 tgactttatg acgatgtttg ttttttgtct agggcttatt tccggagtat tattgggctc 1320
 gggcaatcga atgggtttat tttctcttaa agctcaagtc tccaatatat tggccggcat 1380
 gtccaatagt aggctcgacc tgtatactat aatgggttaac ccaagccggt tcacctacca 1440
 cagctcttaa ccgaacttct tgccaggtat atcgggcatt ttgtaactgc ggatggatgc 1500
 aaaaaatgct ctatcctctg tgaagacatc tacggcacct acggcatggt tgatgccgcg 1560
 agagccgacg gaatatgatt cccaataggg taacctctct tgtgatccgc cttccacaaa 1620
 ggagggctctg tcagacgtac ggaggatcta tattaatcag agaacacccg cgagtccaac 1680
 taatggatac tactgcaca aattgctgac acgcgtagtc ttgaatagcc tatccaagac 1740
 tctgggtccct gactgggtca gtaataataa tggaaaataa tggaaaaatc ccacatgaca 1800
 cgatattcag gcgggaattt tacggcactg aaaaatcgaa aagaactatt caggcaaacc 1860
 actaagctgg ccttaaagga gtgcacagc gatcagcagg ttgaatcgcc tgcgtttgc 1920
 tactccacta gcagccacag ccacgatca cctgacctca acatggtaat gcttttacta 1980
 gtgcgttcta taaaatacaa gacgagtgga aatcaactgc cagttactcg acggagcggg 2040
 cgggcaaaaa gaactggatc aagcgtgcag taatcgccct cgcgtgcgtc ttgccaacca 2100
 ctgattgcaa cagttgtctg cagcaaaggc attctgtgta acgccgagga agatcagaca 2160
 gtcattgggt tttgaggcaa attctaactg cctgcgtttt tgcttgcatt gcctgccttg 2220
 cagcttgcca catcttctgg accgtgga 2248

<210> 2997
 <211> 2750
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2997

cccaggatga aaagagcgat ccagcgcttg cgattcacca agcgaaagga gaattggcgt 60
tgaggcaagg cagcgctggt ccagctgcgt ttctctttat caccagcctc tccggaagat 120
gggcatgtct cccaaagacc ttggattagg tcggcctcag ccataagcat accgcccagg 180
aaaagaacga catcccagcg gccatagcgc atacagaacc ataccaacat gctaaccaag 240
gatatacgaa cggtgtgtctt cacgcgcgct gtagcgagaa ttgtaaggaa gagaacgata 300
gagctgcgga actcaacggg aatcgctccac aggtgaggat tatagttatt ataatacaag 360
gccagtcga acgggtccat aaggcgcgta agcgtataat accagtccca caactgtttg 420
gtcagagatc tgaccatgat cgggtggatgt tgttcgttgg taccctgat cgtgtggcct 480
tcaaaaagaa cttttttgga ataattgtat gcgccaatc gtacgggtac caagacaaga 540
aagatgcaa cgaacgaggg gatgtataag cgaaggcctc gtcgtaatgt cgaagaagcc 600
agggtaacat atgtctcatc gtaagcccga ctgcggacca atttgagcgg cttataggaa 660
aggacatagc ccgatattac gaagaatatg gcgaccatga tgtgaccgga gaccaggacg 720
tggatgatag gcagctgata cagatgccag ttctcattgt tgaatcccca cccaaccgcg 780
accttccaag tatagggtgaa gagaaagtga aagttgaaca ccaataaaca ggcccatcct 840
cgcaaaccat ccagcgcacg aactcgcatg cagctttgtc tgcggcgggg gctggccgcc 900
gaccaagtgc tgtaaatagc tgggggtgat gacgatgcc agtttagtga accagtcttc 960
tagatattcc tgccagtggc cggaagtg ttcgaggagc ggacgcagct ttgctggatc 1020
ataaagaacc tctgaagcag agaagcctcg aaagctgggc catgcgagag ttcgacttcg 1080
ggatgcgcga ccaaagccag attcgacgtc atttagggg acattgtgga tggcggggga 1140
cgactgcctc tcgttctcga cgttcattat tccgggagcg ctgcgagtct gggagcttga 1200
ggcaaataca gagcctcgat ccagggcaac tgatgaggtt cggcttaggg gtgcgcggtc 1260
ttatatgcaa ttgttgcgat agtggagtct gggttctttg cagcaggtgc tgatacttat 1320
gggtccggga ttcgtcatcg gcgatttgtt ctgacagcgg tagaacggag catgctctgg 1380
agccctctat gatggaataa tgctcgcggg gtctgaactt ggtacacaaa ttgaagtga 1440
cgagagaaag cgaaataaaa gtccaccttt gggggcgag gagagttaag gccaaatggc 1500
gagtgtcgat ccgatgatt tcaggacggc gacgtttcac cattattagg gtggcatcag 1560

ggacggaata cgaattggct aagaatcttt tacagatcta ttcgccctct caatgagagt 1620
 ttctgggttat attagatcat ttatttaacc gtttacttct gatttgatca caacttgagt 1680
 gcaattggcg tttgactgga gtacatccta aatacaggca cttgcccctt tatagcatat 1740
 atagagtagt caaccaaagc cagccaaagc ctgtcaaagc ggtgaggtga gcggagaaga 1800
 acagaccgca atatagttac acgtgatctg tcttgcaccg ccgggcagaa aacgtccgag 1860
 tccgaaagcg gaaactccca aaactcaaca gccacgcagc agcatggctg aatctttgtt 1920
 atatagctag tagatggctt tctgtttaga attaagacta tacaagctgc gctgcagtaa 1980
 gatctgtatt agtagactcg taagaacgac ggatctgaca aggagaccct gcaagacatc 2040
 ctttatgagc tggcgaaatatt ttggtcttgt gcagcgaaag ctgaatacaa caccatcttc 2100
 ctctatcgtc accatccatt ctatcaataa ccttcacgac ctagagcaat gtctagctgc 2160
 taagtcgctg gctttgttcc tttgaacgct ctgatctgca tcgtcggtcg tcctttcttt 2220
 ttccaccctg ccttaaactt cgtctcatcc tgcagcccc ttccatcccc tgtatgtctt 2280
 gttctcatt gtcattctcc tccgtcgcct ctctccgtca ttaattctag actggtaccc 2340
 cgttattagc accgggccgt tgtggagagg gggcttgcgt ttgttttcgc cgtttcttgt 2400
 ctgctccatc aattctgctc gctatcggtc cgagttttct taacagaact cgcaatcgct 2460
 atggatttgc gcacgatcat gaacagcgaa gccgcgggca cctcccaacg gcctccatcc 2520
 cccacgttgc atcgatcacc gccgcaactc acccgcaaac catctgagcc aacctatccg 2580
 gcacacgagc agtttccgct gtcacatcc tcgtcttctt acccatccgg gtatcccaac 2640
 gggccagcgc agcaaccgc gccgctccag cgtcccaaac ctgcgcagac cgagctccat 2700
 cctacggctc actgcaatcg ccctaccagt ataactctac gggcgcgcag 2750

<210> 2998
 <211> 1339
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2998

gttgaaacag cttaatcaaa aatccagaac gcattctgaa tactcctcat ttggtcaatg 60
 aatatagaag ctagaggaag ttatttttgc tttcctcaag cctgttccgt gaagcgtag 120
 gtctgtcaac gtggatagaa aagcaacagc aacagccatc ttattacgaa ttaggctaaa 180

ctgcaggggc aggctgtgac agtaccttgc aagatacaca ttctcaatca ttcattggtag 240
 tgcaattaga caatgccggg tcgccggaag taaggattgg ggaatcacag aattttgcat 300
 agatctgtga tcagcttttc cgggtaattg cgcagtgtgc agaattctgac taccacacat 360
 ctggggccatt gttcctttga ggctgtattc tctcgtcctt ccccatagct atctggggtg 420
 attagcagtt caccaatttt agccagataa ttgcaatgaa ccgacttaat gaccttcggc 480
 acagccttcg ctaaagggtat gatattcttag gggtctgatg gcggctccta ggccgtgtca 540
 ggcaacggag atggcccata ttctcttata aaatatctat tcttggctag tcagccactg 600
 gaagaactgg ttttcagaac tttctaagca caatgagaaa cctgaactta attttcacaa 660
 agttttattc accaaataac cacagcggaa cgaagtagaa gcggagcttc aagacgcatt 720
 gcaagcacia aaaagagact acccatttat atgataaaga aagacgacga cgtgaaccgg 780
 ccaaccagga acctcccagt tggacacaag atgaaaagga tacgggagtt gatgaagata 840
 cggaggccga gggatttaac ttgaaagatt ggtaggggtt ggaatgatat tccgacatta 900
 ccgttattgc tgcattcccc tctccttcga ctctacctcc ctgaacaacg atctgatctg 960
 ttcagcaaaa gtgtacaacc atgaaagaag tcttctgaaa aacttcaaaa atgatacaag 1020
 tacactttct cctgattcga aacagtatga tctcagtttt ctcttggggg aatatgttga 1080
 ttacaaaaac ggattgatac accgttggtg agtgattaaa ctaacctttt aagggtgaatc 1140
 ctgcaattta ccagatattc cacatttggg atgtttatag ttactttctg cagatggaaa 1200
 agagcctctg tacgtgtttg acaaggtaag tctctgctt gcaaatttgg aatacttcct 1260
 tttccctacc gagccagtga ggagtgcctg aacaggcttc attataatgc cacacaatat 1320
 aggttcgtcc aaagcaaca 1339

<210> 2999
 <211> 901
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 2999

ttttttcttc ctggaccgc gttcttgggg ctttgggtgc tcgcgcactc atggttgggt 60
 tgccctcaat cgttatgagc cgcgggctta ctttacgcag ctccatcagc gtattggctg 120
 ttatgtgact tcgtctctta gtattagttg ctttgttcgt ctccaagcc gccgtcatcg 180

actcgacgat gctatccgtc attgggacaa cgttggactg agacttttcc tgctcaatgc 240
tacccaacaa aatcgattca tccacacctg tgagtatcgt gcgataccaa cccagttgca 300
actcggtgag tggcaccgaa aacacagtct ctttcttcgg tggtaaatecc agcccgatct 360
gagaatcaca tttggttcgg cgtagcatta caacttttag gaagcgggta atgtggctga 420
gaaatatgct gtcaaacttt ccgtctgtca aggaaaacgc gttttcgaaa agcttggccg 480
tggctggcac gaaaacatcc gggtagagcc aatgtaaaat agaccacagt tcagttagat 540
cgttttgaat aggtgtgctg gaaggaggaa tgtcagttca tgtaatggcg gtgtgcttga 600
ctagtgccta cctgtgaagc acaatcctat tctctgaacg aagtctgtaa actccctgcg 660
ttcgcttaga cctgctgttc tttatgcggt ggccctcgtc gaggaccaca tgtgccc aaa 720
gtgtcttctg aaagaaccag agatcactgc aaagtgtctc ataggctcgtt acaacaatat 780
tccaaggctc ggccccctgt tgtctgaagc atgtgcgcag gttttctctt tcttcaactgc 840
ctccatggta tgccattggc ctgagcccag tcgtccacct agagatctcg gacatccaag 900
t 901

<210> 3000
<211> 3063
<212> DNA
<213> *Aspergillus nidulans*

<400> 3000

aaaatgattg caaagagcgg aagagaagat gaagagtatt cttgaagaag ttggataaga 60
gtgaatatgg acgcgaatga ataggagaca aagtga aaaa agtacagttg tgaaagaaca 120
aagggccatt aaaaatagga gtgaccctgt gttccaacac ggaggagaa agggcgggtcc 180
ttacatacct agccttaagc cactagtcgg aacaagggtat atggccaact gctgcactcc 240
ttaagggatg gtgaactcta cactcaaacg gcatgcgggc agaccacagg gtcccatcaa 300
ccggcaacca agatgcaagc aaacaaaaac acaatgtccg aagaatcagt cgctgtcaga 360
tgagtaacta tgagccatcc ccgcgtttat ccgctgaaat ggccaggtgg gacccgattt 420
gaattcacc acggcttccc ctgcccttca aacgcaaaac gtgccggaat tccccaagca 480
ataatcgagg cagccattgc tcgaggccag ggactgagca ttaccgaaga agcgctggag 540
ccagtaacaa ttgaagcaat cctaccacat tctgttgccg acgtaatcga atgcctaact 600

gagagcaagg ctcggtatt gcaggatgta cggcatgcta ttaaaaaagc tggcggcacc 660
gcgaccccgga ctgcatacct ctttgagaag aaagggcgga tagtgtttga gaaaaaagac 720
ggtgtcagcg cggacgactg cttggagcag gccatagaag cgggaccacg gatatacct 780
cagatgaaga agggcgtatt attgttttca ctgaaccaac ggcgactaag aatgttggtg 840
aaacactttc caagctagct ggtctaactg ttgaagagct tgaaattatt tgggccccga 900
accaggatac gctggtagaa ttgaaggacg aacaggtaga ggagattgag gagatattag 960
cttttctcag ggacgaagcc ggtgtccgtg acatatacct gaatacgact caagctttat 1020
gactgtagca ttaggcttgg tatgccgtct gtacaacata gtcaccatt agatttagat 1080
accttaatag actaaggaga tttatttagc gagccatgac ttgatgtcat agtcactgt 1140
ttacgcagaa tttagttatc gttagctctg tctgtcatag agagagttcc tgtctaccgg 1200
aaagctactc ttttgaaga gctttcatcg tcgtgcgcat caaattcgca attcccacgc 1260
ttcccgacgc atccatccag tcgagcatcc gcactctata atcttgccag gtcacttgaa 1320
tccctccttc cttctctagc gcactcagag ctctctgctg cacaggcttc cgtagcctgg 1380
gttgagtctc gccaacatca ttctccttct cgatatcaga aaagcagcag gcagacatat 1440
tgcacagcgc ggcagatgag ctgagagagt ataacgaccc aactgtataa gagaatgcgg 1500
attcgcggtc cttttttcgg gctttgtcat tgacttcccg gagatactgt gttagtgcag 1560
ctattgttgc tggcggatc aaacagccca gcgcgtttgg atcctctgag ttaagagctc 1620
gattccgcca tacaagattg caaacatcca taatatatcc gttgaactgg ggaacgagct 1680
tctgtgtcca aagcggatct ttggactgga gcgtctcgga attcattgat aactcaaagg 1740
atgacttgta gctgcacagt atagagttca tgctcgagat acaaagctc acggggctga 1800
aatgaggggt gtagacagac ggcgcaagag ggacagtgag ttaaatgttc ccgttagtat 1860
gtgcgtgaga gaacagatct gccagtgtga agtaaaatcc gagaacagac agcgtactgg 1920
atctatagtc tccgcttgtg tctgaaggct gttgtactgg actttccaga acggaagagg 1980
ccaacaattc agcgtgcaag ataagagcgc tcaaacgttg cgactgctca atgtcgaatg 2040
actccgttct caacttgatc cccactgac ggataagtcc ggagtaaaag tctaacaagc 2100
tcgccttggga agacgctgta tcttcagca aagcagtctc tagaggagct aagatctcgc 2160
tccgtaaaga gtcattgtct ctgataggaa ggtactcgag caattccagt attactggc 2220

gggttttcgaa gccattccag attggtaaat atgatctcaa aaacgttagg aaggcttccg 2280
 ggatattcta ttacatgtta gcaggctgcc gaagtagttt gggtgagaat cgataccttt 2340
 gtgtactgtg cgtaaccaac aactagattt agcacgtagc ctagcgtctc aacaccgtca 2400
 tcaaagtctc gcgcagactc taaatgctcg ctcaagaagg cttgcaacca atcattgagc 2460
 cgccggtctg caattttcgg ttgaaccaac aagacgcatt tttgggcaaa atcatgcgta 2520
 aatgtggaga ttatctgggt aggtagctcg attttgtcaa gccgttcgac aaaatgagta 2580
 acactgcgca ctctccagc gaagttcggt tctggttgac tcgagagggt tgtacttcag 2640
 ggacaaccgt ctgcacttta ctctcttcg ccaggcctcg atgtactacc tggaaactgt 2700
 tggacccatt tccctgagtt cgctccaagt tcgtttcctg gatttgtcgt gcatgagtcg 2760
 tccattcagg atcaggggtc ttaaagaaca ggcctttcat gccagtattc cccacaataa 2820
 catctggatg atagttcttg aaaaccctta gcagtgatat gagttcccta tca^vcgccac 2880
 ctgacgtgcc aatcagttcc attagagctt gtattctgaa aggcttgaca tgctttcgcc 2940
 tggtaatgta ggaaagaata tggcacaggg gcttgcgag gctgatcatg tcaagatggg 3000
 taaagagcac agcgtagagc ttagacaagt gagaccgatc atcaatgaat tcataaacga 3060
 gaa 3063

<210> 3001
 <211> 777
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3001

aaaagcccg cgccgataat cctggcttgg ttagtaaata ttccagcgga gggatcagc 60
 ctcttgaga ccgctggtaa gatgagaatg gcattatcat ttatgcagta gacactcagc 120
 ttctcaggtg atggaacgta ctccatatgt ttagctggag cagtggcgac agagtgagat 180
 caggcgagga agctgagaca atgtggcgga tgcattgtcc agttcaaggg tgctggagaa 240
 cattcaaata gctgcctcag gccacaatat tcatatatat tgaagattcg agatatgaga 300
 ttcggggatc gatttccgac agcacaactt gacatttcga aaacgtggga ggagagacaa 360
 gttatggccg agaaagtcag gcagccttgt ttttgcgcaa acaaattcgc atcagcgtct 420
 tgatatgtca gcacccctc tcttctttgc tctcatgtca agcctccaaa ttcaacactt 480

ctaaacgtcc gtcagttcca aaggccacca aaggtccggtt ttcagacgca atggcgctcg 540
 tttctaccct gcatcacgag cttgcattac cggtgccaaa gctggagcca gctacaacaa 600
 gcccactctt tgtctcgaat gaaaccagcc tacgccaatc tgcagataac actgcagaag 660
 ataccgttac aaacaatcat caggatgcac ccgtttctcc tgtacaagca gagccgggac 720
 agacacgaca ggttttcgag cgagcccatt gcctgaaagc agtcgatacc gccagtt 777

<210> 3002
 <211> 2855
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3002

ggattgtcgg taagtccgac aaacgtaaaa aaccgtttta gaagggcgac cgcacgccc 60
 gattcattca tggtccaac caagtgcagc ccgaagatgg cgcgttcgca gactacgtcg 120
 ttgccaaagg ggacattcag atgcataatc ccgacaagat gaggtttgaa gaagccgcaa 180
 cgctcgggtg cggcatcatg actgtcggcc aggcactgta tcagagttta aagcttgccc 240
 tgccgactga acccaccaag acgcccagc cgatcctcat ctacggcggc tcaaccgcaa 300
 ctggagcgcg cgcgatccag ttcgctaagc tgtccggcta cacggtgctc acaacttgca 360
 gtccgcacaa ttttgatctc gtgaagagtc tcggcgcgga cgcagttttt gactacaagg 420
 atgccaatgc ccccgccaag atccgcgagt acacgaacga caagctccgt cttgtgcttg 480
 acacaatctc gctcgagccc agcgccaaat tctgcgacgg cgccctctcc accagcggtg 540
 gcgagtacag cgcgcttctg cccgtcagcg tcgaccgccc caatgtcaat tcaagagcca 600
 ctcttgccca cacggctatt ggcgaggagt tccagtttgg cgacaagacg acccctgcga 660
 agccagaaga taaagagttc gcggcgcgct ttgccactat tacagagtcg ttgctgcagg 720
 atgggaagat caaggtgcat cggcataagg ttggcaagaa cggacttcag ggggtgcttg 780
 aagggttgga actgtgaagg agaataaggt cagtgggtaa aagttggttt acagggtgaa 840
 ggatacgccg taaatgtaat ttatgtctta aacatctata tctgacaggt ctggctcgta 900
 tcgtgtaaat agatagaatt gagaccagca gaaaaggaat aactccgctt cagaaatgcc 960
 tctaacgctc caaggcttgg ccctgagagt gcctaagaat ttgacttggt tattttcttc 1020
 tgccaaccca gtttatttct cgtgggaacg tactattcaa taggcttaac tgttccaatc 1080

ttattacatg aaccagtcag ttaggggatg gggcgccacc ggccccagtt aggtctagac 1140
 gccgcaacca aaaaccccag tctcgaggta agtgcttgaa atgtctcaaa ctttggggtt 1200
 ttgggattgc tagtcataca cgctcacgac cgacgaggcg ggacacattc ccgaagattc 1260
 tgcattgtta aacccttcaa atattaaaga tctgcagata tgaaaggcag gaatgcgctc 1320
 tctatctatc cacattgctc ttctccaatt ctgtgtacta acttcgtatc atcatgggcc 1380
 ttcaagaaag tcctcattgt cggcgctacc tctggaattg gccgggctat tgcaaccaga 1440
 ccgattgaga aaggcatacc cgtcgtgata tccggccgcc gagaagagaa cctgcaggag 1500
 tttgttcgcc aacatggcag cgacaaggtc aaaagcaagg tctttgatgt gacaaaattg 1560
 gacaaaagtaa ggagaagcat gcaatgtaca aggacaagct aacagctcaa gattcccggt 1620
 ttgcctctg aagtcctcat cgagaacccc gacattgaat gcgacttcgt caattcgggc 1680
 gtccagcgcc cctttgactt ctccaagccc gacactgtcg acctccgat gttcgaccag 1740
 gagctggta caaactacgc atccgcgta tacctcagca aagccttcat cccccactta 1800
 caggcccga aatcagacg tcaactatct atacaacctc acagatggcc cttgttccaa 1860
 tgatgcggtg cccgaactac ggggcttcca aagctgcgct gcaccacttt attctcgctc 1920
 tccgcacgca gctgcgagat ggtctggtgg tagagatcta cccgcctcct gtgcagacag 1980
 agctgcatga cacgaagcat cagcgatctc aagaacggac atctaattgg gatgccgctg 2040
 gatgatttta ctgacgaggt gtgggcaagg ctacagaacc gcgaggagca gattgctgtc 2100
 gggtcagcgc aggaatctt tgacgcgttt gagattaagc ggcaggggct gtataaggag 2160
 atgacgaaga tgttggtggt gttatttaag cagtttctga ggtagatagt agttgcgtgc 2220
 ttgagaagaa tgcaagaat ttgttggttt ctcttctcct ttcttcttc tccccctcc 2280
 tattcctttt cttttttacc ttgtcccttt cacgggtggt ggcttgagac gatttgctag 2340
 ctgtctactc gccatatact ctgtacattc agtcaggctc ggactattaa ttcttgctac 2400
 tataaaacac tagatatcac tgttccctg cctcatacta caagagtacg ctccagattg 2460
 atccgatgct caatgtcacg agttacagtc gttgatgcta acaggtagta ttagactaga 2520
 agaattagct agagaattaa aacacagtga ccgttgagct tcctagtgtg acggaccgac 2580
 gttggtgcc aacctgattc gtcattccgg aagtcagcaa caatcatacg agaactggcc 2640
 tgtacatggc ttatcccgga ccagagattc aattggcagt tggttcctag tggactggct 2700

cgctttaatt cgggcaatgc tcgaatcaag acttcgggcg tagctcgta cactcaacat 2760
aatttccgc actttctgag tttttctaaa aaaaaataca cgagttaaaa atttattttg 2820
caacttcac caccgctcta ccaccttggt gctgc 2855

<210> 3003
<211> 1696
<212> DNA
<213> *Aspergillus nidulans*

<400> 3003

agagaagata tgaaaaatag gagtaagatg aaggagatat tagaagaata ggtaggagg 60
tgagtaataa ttgaagagag gaaagtaaaa aggtaaagag aaagaggtgt ataaaaatat 120
tcccagagga aggggaatta tgaagagctt tgtggccaaa aataagtga aggttgccgg 180
gaacaacgtc ctttaatatg gcgactagtt tgaagcagat aattgtgtaa aaagccattc 240
cgctctgtgg ttcgattgca gatgtagaga aatggcattt ggtgcagtat gtccctggca 300
caaggtactt ttgggacatt tcaagattaa tttaaaagt ttgaagcgtt accaatttat 360
aaaattcaat gttctcatct cgcttggtta ttaaaaaact tttcgatta gctgcatgta 420
gcttttgggc acgatataac agcgactaac tatgcttcat cctttgggtc gctctgctca 480
ttaaacacca cttgttctgt ctgcctggtt ttcccttcgg ttctgcatt ctgctgcgca 540
gtgcctgtgc tgctggtttt tgcgccgtg tctccacctc taccctcagc acgtctcgac 600
ttagcgctt ccttgagttt ttcccatcgg tccctatacc gaccaagcac gttgtggagc 660
ttctcattct ccgcctac tttctccagt tccttttcgt ggtggcggag tgcttcctcg 720
agttccttta tgcgcttttc ttgttctgtc ggcgcggcgg ttgccgtaga gggacctgtc 780
gaaggtgagg aactgcaga cacagattgg ggtccatgct ccggggatgg gatattctgg 840
tgatgcattg cttcaaaga ttgttgcaa gccagggacg atgactgtgc gttgacctcc 900
cacatgtgta accgttttga taaggtgtca gagaggtgac gtagtgcttg atttccatt 960
tgcagctctt ccaaggtctt aggcgactgg aggtctgtta gtttgcgtt cccccggcct 1020
gatttgctt tgcttttggc ttgtctgcc tgaagcattt ccggagagga ggggtgtctct 1080
cgagcatcaa caaagtcac ctccgcatca tcgacactgt tccgacgagc ttcttttctg 1140
gcacgggtta agatccccgc gtaagacaca gtaccaccgg ttgtgggcac cacgtagaac 1200

gattccgccg gatttcctgt ccccatcccg ccccagatt cacgaatcgc ttttaatgca 1260
gcacgggaga atatcttgct gatatcgggc tccgccgagg acacagagcg atctgatacg 1320
gccgtttgcc tgtcgagtct cgtttccgcc gatgatttgc gaactgcact tgcattgttg 1380
acgctatcca gtccgagagg gagccctgca aatgctagcg gtgctgaaat cttggagatg 1440
aggccttcaa aggtcgagta aaatcgctga aacggctcct cggtcgtaga ctgtcgggtac 1500
gattgttggg tcgagtcac ggtctctgcg ggtacgaatt gctgggaggt gatatctgta 1560
ggactgccag ccggtggtga ccatggctgc ttttgaccca aaggacggtt cacgcgatct 1620
ctctgtccgg cggcctgggc agctctcaat ctcgattctc ctgatctgat ttttgccgggt 1680
ccttcctca ctttgc 1696

<210> 3004
<211> 1443
<212> DNA
<213> *Aspergillus nidulans*

<400> 3004

aatttcttct tcaatctact tcaaatecat agatgttggc gaatacaaac tctcgatccg 60
aatcagcttt tcttgcttgc caggggccca ttgtgctgca tactttggca aagtgtcgtg 120
actagataca gctatccttg aatctagaat tgtcatgatg atttaaggat caggcctata 180
taaagctcca ttccaagca cagaccatca acgatactcg acgacttcac aatcccagat 240
ctgtccctt gaccacaagc gtcattatta cttctaacta tgcacaatga tatagtaatt 300
gcttatacat aatcatcat ctcccccttc cttcagccc ctactgacgg ttcattccagc 360
gtgagagcca tcatacaaag gccgacagtg gtaatatcac aattcaagct cgtccgtagc 420
ggttactcac tctcgtcaa ctccccacg gtctctgact tgggcaccaa attcaccggc 480
cgcgctggct cctccccact cccaatcca atctgtgcat cagatgatgg agaagctgat 540
agaatcacgc ttcgaccaat ttggaaggcc accggctggg gcgtgtgttt tgcactcatc 600
gaggtaggaa gggaggtgtc atgtctctc gcgcggcggc tagtggcctc aacattatcg 660
tgcgtcgccg tgctgtgct gtgcgagttc ctagctaacg gaattggttc gttgtcgccg 720
gtgctagtgc taatcacttg cgagatagtc cgcgggagat gatagccagc tttggcgaag 780
ggaatagaga gaccatgaac gactatgctg cagatgacga gaaaccagac caccacttcg 840

atggtatcag agacctgctg cgcacggcg cgaatttcgc cattcacggt gatcctattc 900
 aaatattccc tgctcactga aagatagaag actgcaccga cgccgatggg gccaaagaag 960
 ccgacaaatg tagtctggaa cagactttcg atctgttcga tatacttgtg catggcgaaa 1020
 atgataggca tgcgacggac aagtaggatt aggattccca ggggaataga cggatatatcg 1080
 ggatgacttt tttttctagg agagatgcct gggcagacgg taccaacca atgaagactg 1140
 gtaggtgagg agcattccat ggttggttga agagagtcgt cctggtttct aggggacccg 1200
 gctctgtggt cagcttgctt tcccattctc aaggggacgt tttttgtttg aacatttttg 1260
 acgatacacc cacagggtcca tgtcattatt ttactactct atatagaata aggtttcttt 1320
 ctgggggttg cgttctcttt tcatgtatgt taaaagtatt ttttgtcatg atttctttct 1380
 cgtgatttct taatctacat tttcttttct ttatatatta tattttttat actattttgt 1440
 tct 1443

<210> 3005
 <211> 597
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3005

tgactaatac atggtttgca ggctctgcag catccgtatt tctctagctc gaaaaaatct 60
 acaacggctg tctaatttag gcttctgccg acacatacac ttcgcttatt agaccccgctc 120
 aaggttataa tcaggcatat ggaaggttac atacggcctg tcgtagcccc cttgagatat 180
 gtcgagctat attggtatat caatgtggct catatcaca acgcccata gcttgtcagc 240
 cacggaaata ccgaaatttt caagttagac aggctagcct tctattttgc taatcaaatt 300
 aacaaaacag atgcgattct ctccaaggca gtggtttcgg ctttcattct atatgaacgg 360
 cattcaaat cgctgaagg ttggtcaaag cagggcagta gtcgagttgg gtcattatg 420
 agatgatgga gacattccag atacggaaac aattgtgatt gcgaattcgc gcagggtatg 480
 gaaggatacg aaaagatgaa atattgtata tcaatctggc cctcctattg agcactcctt 540
 ctccgcaagt tcaccgtcgt ctgatttgag acgcggactc gaggcaaata tggcgctc 597

<210> 3006
 <211> 1433
 <212> DNA

<213> Aspergillus nidulans

<223> unsure at all n locations

<400> 3006

tacgccggga taagtccaaa aagtccgtag cgccttcgct ggaaaaacagg aaaacaggaa 60
aagtgatgtg agctgaaata gagtaaggaa atcgtgtcgc atgatgtgtc taaacctgtt 120
ccgtgtttgt ggcttggctc ttggacacgt ttgttttctc gagggccatt ccatccgcct 180
ggactgcacg tgagctgaaa aagccagagt caagggttcg aggatcaggg tactggaaca 240
tgtctttttt aatgtcggca tcagaaagaa gtgcgttgat gatgtccgca tcatcattgt 300
tctggttcct gtccgatttg gatggggaaa gatcagaagg gagccaatct gccagttat 360
tattcgacac atttctggaa tcgagtgcga ataatggatc tgtgtgaagc gccgagttgg 420
cattgtcggg gaagatatct acaatcatct cgtccatgcc ttgaaatgca gctgtgccga 480
agatatcatc tgacatcggc ggaagggtcag gaataagcga gcgagatcgc ccagggtgtcc 540
ggttctgggt gggaacagac ccaggactgc tctggacgcg ctgcagccga cgtgcaggag 600
ttcgagttgg ggttatatca atagctccgt ctcttcgaga cttgacaggc gagatatagg 660
gaagtgagtg tcgcttgccc gatgtagtca ggcgttgatt tcgtcgtttg ggggtgggac 720
tagcacaaaag ctcaaattca aaagaggag gctcgtagag ccgctctaag tcattcacag 780
cctggttctc tttctcgccg ggctccttgt tcgcttcttg gacgccgggg acgcgtgagc 840
ctcgttagg actgttcaag accgagtcgc ctaatgctcg caaaggaccc ccctcgttct 900
gcgaattagg aaacaatact ctctcactg acttgggagg caggtttctc tcacccgggg 960
ctgaagtatt gccacctgca agattcctag cagggttggg ttgaattgcc cgccgaagcg 1020
cttcccttgc atccccctca tgccagcggc ttctgctct gtcagatgat ttgcgaggtt 1080
ctgcactgtt tgcgcgggcg ctntagctg gcggttctg agcatcatcg ttcttttgtc 1140
cttcagtttc gccgcctta ccagcatcat tatccggacc cggggtagta tcatcatcag 1200
ctgctgggct cgaagcgtct gatacgctg gtgaggaagc atctggctta gacggctcgc 1260
ttgtgctgcg gccaccgggg cgcttattag tcgaaagcgg ccagcatct ttgcgagtc 1320
tgcgcggtcg ttttcttttt tcgtagctag ctttgttcca cctattctca gggcgcatgc 1380
ttttgcattt ctgaagccag ataccacaag cttcggagcc attagtacat atg 1433

<210> 3007
 <211> 1357
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3007

```

aatgtagaac tgggggagca gaaagtgcgc aaggttgggc ggctgtgtg cgttgttgtc 60
gacgaggtgg acggatggtc agcggatccg ggggttctgg tgaaggcggc ttcataaagg 120
ccttgaccga tctcgttctt ctagaccaga gaaactcagc acgcacatcc gagcgagcat 180
ctgacggacg taagagaaag ggtgacaatt ttcggttctt tcgtccgctt attctagtct 240
gcaatgacgt gtaccatgca agtttgccgc cgctcagaca atcttctgtc gcggaaataa 300
tccacgtgcg tcaggcaccg ttagagaacg tcgtctctcg catgaagtct atcttctctc 360
ttgaggggat cccgtcggac agcgacggag tacgacgact ctgtgaagcc tcatggggcc 420
ttgcaaagcg aaagcaacgc ggcgtgagaa gcactgggtc agcagaaggt gacatccgga 480
gcgtcctagt agctgcagaa tgggtagccc acaagcttgc aaatgaaagc tccgctcctt 540
tgaggttgac acgaaactgg cttgaacagc gagttctcgc agacgccgga ggcggctcgt 600
ttttcaaagg catgaaccgc ggtggagtac gcgacattgt ggatcgagtc ttactgaag 660
gggccggggt cccagacgta ccccttggcg atgaatctct ccaagaccca tacgaccgct 720
cagaggcggt ttcagtggat gtcgccaata tcaaaaagcg ccatgcaatc aggaggctgt 780
gcgagatggt cgacgccagc ggcgaccatg accgctgtac ttccgagtgt ttctctctcat 840
accactcca accatatcaa gacgatacgt tctcaccaa accgaacgcc gcttacgact 900
ggcttcactt ccacgacacc atctcatcaa gaatttactc tgcccacgat tgggagttgg 960
gtgcctacct cagccaggca acatcggcct tccaccttct cttcgcaacc gcgcagggca 1020
aagctcaaca acagtacaga gaaatagacg aagaagagga ggaagcacat cccttctctg 1080
gcccgcgagc agactatgcg gccttcgaag ccacgaagca aaaccaagcc attctattta 1140
cgtttcagtc attcttttct gcgcctatct ttcgactttt tcggttcggt aataattgag 1200
ccaccaact tatttctaac gttattcgca ttgctcttgc agacaataaa cctgtcttcg 1260
tgcccgaaa cgagcataat attgttgtct agccttcttt aggagagtga tgccctcttt 1320
tttcattttc ggggtcgtgt tatgactcgt cctaggt 1357

```

<210> 3008
 <211> 631
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3008

```

ttgcgcgata tttcgccgtc gactccctat attccgacct tggtagcggg aatcagtgc 60
aatacctcta tcctccgcac cgtaggacgg ctgtttcagt ttacagaaat tgacctgtcc 120
ggcctgggtca ctggcagcgt cttaacagat ctgccgccgt accagtggca atacgataga 180
cgcttctggt ctgaatcacg agtctcacga aattggcgat tccgtcaaca tcctcatcac 240
gatatacttg ggtctcagat tccagacggc aatgagatgg agcctctctg gcggtctcta 300
attcatcttg acagtgttcc atggcttcga gaccatgtca ttgacgggaa gacggtcttc 360
ccgaggtcgt cttatatctc aatggcaggc gaagcgattc gtcagctgac agggagctcc 420
gatgtttcgc tacggcgcgt atcttttctt gaagacatta cattcgatgg aaagcaccct 480
actgaagtct tgacacagtt tcgaccata caaggtaccg aatggatga cttcacactc 540
acgagccagt ttgaaggcaa gtggacaaag ctctgtatgg gacaagctcg acgaggctat 600
gatctccctt ccgatatcaa acagctgtgc c

```

<210> 3009
 <211> 1560
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3009

```

ctcctgagcg tattttcggc ctcttgccgc aggattatta atgttgacta gtcggggact 60
cgtcccgta tctgcggtgg tttcccgcg aattcaaact tcatgcaaca acattcatat 120
ttgcagtata tcaccatggc tgctgcgaca aatcgcttca gagctctata ctgctctca 180
agggtcgcta ctctcaagc gggcagcgca tcctatctca gttatcgggg ctatgctact 240
acggatccct catccgccac tggcggagct tcgacagctg gcaagagacg gacaacattc 300
acggacaagc tcaacgcggg accttctttt ggagactttg tctctggggg aagagacaat 360
gctcccctcg atccttccga agcttatgct cttagaccg ccctagttgg gccggctggc 420
cgcaagaagg aatgactcg gttaccatcg tggctgaaaa cgccgattcc cgattcgaag 480
aactaccagc gcctcaaaaa agatcttcgt gggctcaatt tgcatactgt atgtgaggaa 540

```

gcccggtgtc ccaatatttc cgactgctgg ggtgggtggtg acaaggctgc tgctactgcg 600
 acaatcatgc tgatgggtga cacttgaca cgaggtgtgc ggttctgcag cgtgaagact 660
 tcacgcgcgc cgccgccgct tgatccgcat gagccggaga ataccgcgga ggctatttcg 720
 cgatggggac tgggatatgt tgtgctgacg agtgtcgacc gcgacgacct agccgacggt 780
 ggtgctcgcc acttcgcgga gacgggtcatc aaaatcaaac agaaggcgcc taatattttg 840
 tggaatgct tgacaggtga ttatgcggga gacttggaat tggtcggtgt cgtggcccga 900
 tcaggtctag atgtctacgc gcataatgtc gagactgttg aggccctaac accacacgtc 960
 cgcgaccgtc gagctacctt ccagcagtc ctccgtgtgc ttgaagctgc aaagaaagcc 1020
 aagccatcgc ttatcacaaa gacctctctt atgttgggac ttggggagac cgaagaacag 1080
 ctctgggatg cgctccgcca actccgcgct gtcaatgttg atgttgtagac gtttgggtcag 1140
 tatatgcgcc caacaaagcg tcacatggcc gtgcacgaat atgttaccac tgaccgattt 1200
 gaactctggc ggcagcgtgc tcttgacatg ggcttcctct actgtgttcc cgggtccgttg 1260
 gtcaggagta gttacaaagc aggcgagggc tttattgaga acgtcctgaa aaaaggaggt 1320
 ttgcgccccg tagtaagcat acacgggtcca gttgtgagcg gccggaacaa ccttattcat 1380
 caatttttat tcacatcttt aagggcaggt tggaaatgtg gtggtttaat gcagagtttt 1440
 ttatttgggc tctattgtgg actatgttat gcatcagggc attaacgggg ggtgaatatg 1500
 tgcccaattt aatccaattc ccccttttct gaatttttta accccggtgg ttgtagggtg 1560

<210> 3010
 <211> 788
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3010

tagctacccc cgcccgcttg ccgacgttgc acacgtcctt tcaagatgaa gtcctgacat 60
 cgtatatttg ctgggatctg gtgaagatcc tgcttcccat gcttcagag tcgcaagaat 120
 gtcttaagga tgtggctcga ctaggaatc ccagagaagc catcttacga gtatccgacg 180
 ctcttatgca gctacacccc gcggatgagg acgaggagga atcagaccaa cagctagagc 240
 cacaccatgc agacgttggc cagggaagca gcgtgactaa agcacctgca gggaaaactc 300
 cacttcatgt ccacaaattc aacactcttg ttgccatgct ctccaccctc cattcccgtg 360

tacagacaaa atctcccagt cgattccttg cgacatccct gcaggcagta ctggaagcat 420
acacatcgat gccacaaaac gagactacga tagccctgct cgagtttttc cgagacgttt 480
cccctacgaa aagaccccca ccgccgccca gggctccgag cgattcgaca gtccctccgtg 540
tcgccgaagc gtctgctcca gaccctgaag cggaagtgat gtcgcctagc ccggctggta 600
acgaagagag cgcgctcatc aggagggttct tgcagtttgg tttgattgag cttcttaaata 660
cgtatctttt gagctgttcg ggtccgatgg atcccggaaat gtcgtgggct gttcgactac 720
aagagaagtt acatccggaa tcgcgtatgc caggtactgg ctgcctaca aatgtatacg 780
tgataat 788

<210> 3011
<211> 1318
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 3011

gattggaaat atatttggtg cagactcctt ctcgatatctt cttgatcacg gttcgggtact 60
tgacgatggc gattaaaagt tcgaatcttg cccgcctac tgaagttcgc ttcagttctc 120
cgccactggg atgctgaatt gcctcgctcg gatgattgga aacgtggacg ttgcatgctg 180
ccacgggatc ttgacggtgt cgaactcgtg caggatctca aggatactac gtcttgggcg 240
cgttgtgtag tcccagaact cgtcaagata ctccggattg gtaaattcga gcaatcgctc 300
cttgtgcatc tcatatgtgg tgtagtgtgc gattgctgcg aagaatgacc ggcgggggat 360
tgctctaata tctaagtagt tgataagtag ttcgcgcagg gtcagtcgcg ggtaggaatc 420
caggctgtgg atgggaggac taggcagttc attcgtcgaa cgagtgcctat cgcgagggac 480
taaagagacg agctgggtccg cttgctcctg ccagcccatc atctcaatga gactttggac 540
atcctcagca gtgttcttcg gggttatcgt taatacgtcc cctggagcat atgaaatggg 600
atcgagaca gtcaaaatca gatgacgcac gtcttgccag tgcgtctgcg gggtcacacg 660
tttgttctgg acgagagttg ccgtcaagct atcgtgtagt ggccgatggc cattgtcgag 720
acgggtacgag tcaggaaaat cccctgttac tgccgcgcc attgcatcag ggggactgac 780
atcctccgaa gcggcttcct ggtctcgaag tcgtagaacc cattttggcg gtagctggac 840

atcgtctggt atcggatcct gccccggggg aagaggatac ttgtccagca agtgcttccg 900
 aaaccctgcc aaccaaggaa taaacgtacc ctctaagctg cgaccatata agcatatcagt 960
 atttgatagc tgggatcggg acataccccg aagaatgttg gtggtctgct tctccaccag 1020
 ggtatatctc atccgcgccc agctgtaaca accttttata cagtttgcg gcacgccagt 1080
 tgaacttggg gtacgagcta tccccagcc caaaccacgt gaatctcact ccaactcagaa 1140
 aagtcggcgg cacttcttca aaagcagcga tctccaaaac gtccgagcat tggccggcag 1200
 atctccttga ccggttgctg aaacggcaaa gacgacaatg gtatacgacc ttaacgactc 1260
 ctagcgatgg ccagcctagt tagtggtgtc atatcagagt gcattanaga cagagaca 1318

<210> 3012
 <211> 1396
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3012
 gtagcaaaga tgagctctgg ctttgctaata cggaggaaac cccgcaagat tggcggggac 60
 gacggcaatg atgatgagga gcaaggtaag taaccgcctt catttggtgc ttccaacctc 120
 ttattcgcgg agttgttgac taactatagt atctagacac tggccaatc atcaagaggc 180
 cagttagttt gaaagtgaag caaaaatcca aagcgcgcgt ttcgttcggc cctggtgaaa 240
 cttcaatgac ggaggagac gacggcgaaa gagaagtcac cgttccaaag aaacatggct 300
 tgggcagacg agtagttgag aagaacgctt tccagaaatc gacaactccg tccgcactaa 360
 gcaatcaact tccacttaga gttgggcccc aacaagaccg accaagttac aacgaggagt 420
 acttaaatga acttcgaaac ctgacggctt caacacccaa gcctacggcc gattctgaaa 480
 accagaatga agtggatgta gcggccaagt tcggtgaagt cacgaaagtc actgctccgt 540
 cgctgattcc cacggaggcc gagatcagag aaaagaaagc tcgacgcgcg aggttagcaa 600
 aggagcagga cagtcatagt ctaactgaac aggattatat atcgctggag gaaaatgcgg 660
 gcgatgactg ggaattggtc gacagagaat atgacaggga taccaggctc gtgcgagacg 720
 atgaagactt cgcggaaggg ttgacgaat acgtcgaaga tgggcgcata tctctaggga 780
 ggaaagctga acgtgaacag aataggaagc aacgtgaagc aatgcgcgag ctcatgaag 840
 atgcggaagc tcttatggac gaggaagact cggatctaga ggagaaggca gcctatgaag 900

ccgctcagac aagagctgcg atgggatacg gcaatgggcc cgtagatcgg ccgaaaacgc 960
 cccctaagat gacatctctt ccccgctctt cgacatgcct cgacagattg cggatgaatc 1020
 ttgcgggttt ggagaagtct agaacacaaa tgataaacgc gatggaggaa ctgagaaagg 1080
 agaaagccaa tataatctgtc agagaagtcg aaatacaggc tttgatcaag gaaactgggtg 1140
 atcattatga gaaacttaag caagaagccg gtgtcactcc gggttccgag gctgagacgc 1200
 cagggacaac agattttgag agctcgcgcg gattagagaa tatcggagct ccatccacgc 1260
 ctgtatccaa gactaactcg gaaagtgaga cttgaccttt actggaacga agagtgccta 1320
 ccggcttttc gccaaaaaat ctcattacag aagggtccac tcacaccaag ccgtgtcgac 1380
 cggactccgc acacca 1396

<210> 3013
 <211> 3506
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3013

gccccgtct tttcccgac ttcattaacg tccactccag gcgcaagctc ggtcagggtg 60
 agctcgccct tttggcggtc gacttggaac acgcactgtt gtttgtttagc aacagggcag 120
 caaattttga ttcagccaag tgtcttacca gctccgtgac gatcgtgctg acacagttag 180
 cccctgtcag tggaagagag cattctgtga caattttggg taagccatct ttcgctgtgt 240
 gactggttgc gacgacaatc ttggtttggg cggggtttga gattagatcc atagctccgc 300
 ccatcccttt aaagaccttt ccaggaatca tatagtttagc taggtcgccg tttgcgctta 360
 cttgaagagc ctgtgttcag atgttagtat gaatttgac agggaaagta ttggctgacc 420
 cctaggattg aaacatcaac gtgtccgccc cttatcatcc caaaggactc tgtgctgtcg 480
 aaagttgcag cgctggcag caaggtaacg ggtctcttta cccgcattga taatgtccct 540
 gtaaacagtt agaagatggc tccgtaaaga tggagctcca catacgcatc gacttcatca 600
 tcagttgggt acggtccctt gacttattta gcttacgttc tattaccgcg ccgctcttgc 660
 cttaccattc caaggatgcc attctccgat tgaatccaca ccttgacacc ctcaggcagc 720
 atcgacggtg cgagtgtggg aatgcctaag taaaaatagc acagttgaca cgcatttttag 780
 agaaacgtac cgactcccag gttcacatag taccctgtct tgagttcctt agctgctctt 840

tttgcaattc ggtttctctg aatgatagcc ggcgatacac ctgctgccgt agagccatct 900
 tcttgcgatt gtcggagttt cctgatctcg atttgcttct cagctgtcga aggaacaatc 960
 ctatccacaa agataccagg caggtaaca tcgttgggat caattgaacc aactggaaca 1020
 atgttctcgg cctcgacaat ggtaagggtt gctgctttgg ccataatagg cccgaatgcc 1080
 ttgggtggtg agctggagag agaccgtcag gtgcccgttt gatataaaa tggtgaaatt 1140
 acctaccgga aaacgcagtt tccagcttcg tctaccttcc acgcgcggag aatggcgacg 1200
 tcgccggtaa gcgcagttct catcaagtat gtcttggtgt tgaaaaccct tgtctcccg 1260
 ggtttgccat gttccaacac attgccagat gcctcgacac gcacaggaat tctgccatcc 1320
 tgaagaaagg tatctatgca cacatattta gccgagcccc aatccacgta gagacggact 1380
 cagcagcccc ttagcagtg tagaaagcag gaattccagc accccccgca cggaggcgct 1440
 ccgccaaggt tccttgaggg cacagctcaa tagcgatgtt ccctgtaagg tatttcttct 1500
 ctagcgcttt attatttcca aggtacgata tgataagtcg gtcaacctgc ccggactgtg 1560
 tcaaggtaga gaggccacct ttgcctggcg cgccggcatt gttcgagact gcagtgagtg 1620
 agtggatatt ttcggcccct cgtcgagcaa ttgcggttat cagagtatct gccattgtca 1680
 tcacacacat ccaagcccat catagtaggt tttaatcacc tgccactcca caaaggccga 1740
 agccggaact aaggattgtt gagccgctct caatatcagc cactgcgtca tccgcacttc 1800
 tgaacagttt cgaggctgct cgatcgattt ttggagcgcg agttgttttc tcaattgtgg 1860
 ttgatgcagt agaatatcca acgcgagtta ttggagaagg agttagtcgc ccgcatgttc 1920
 tttggtatac gcggaacaa agttgcgccc gcgcaacgct cgtcgctttt cgagacagag 1980
 tcagtgtgg gattcgaagg gttgccatct cacttagtag tagtcaaaca aatagttgta 2040
 gagaaaatca acgaccgat gtaaacagat accgatgacg ttcgtttata agatccgact 2100
 ctccgggcta cttctggagg ccgagatgtg gggtcacgat tcggccctca agaatatctt 2160
 ctcatacca ccattcctag accgtcacia attgaactcc gggttggcta tctcgagcca 2220
 gttccaactc atcagatcgt caagtggaac atctggaaca ctcgcgccaa aagcagtgcc 2280
 ggctcgattg acagcatcaa tgatctggtc gtcagacata gccgagaact gcatgggctc 2340
 ggaccagaac atagaaggcg caaagctttg ttggaccggt gaagaaatag cgctaaacgc 2400
 atccaaagtt gttgatggga gtgcttctgt gtgtgaaatg cgaggatcac tctgaggttg 2460

cgagtccaaa gcggccggtg tacgtcgaac aagctcacgc aagaacctcc cgtagagcac 2520
 agatgcccc a ttcctatgac tgggtgtgct tccgatcctt tcaaggactc cagcagtttc 2580
 ctcaattagg ttccggacac ttgggggctaa gctagaattg ctatcggttg gcattgaact 2640
 gagactcagc gcagagcacg cagcaaagga aatcatgatg acggtattgt ttggcattga 2700
 ctttaacctc ctttcgcctt gaattgcggc tcgcataacg ttcaaagctg aagaaaggcc 2760
 agctgcacgg aagaatcggt tgacttcaat aggtgctgta gggtgattta ttacgccgcc 2820
 gtaagtcgaa agctgtgtgt gcgtcaccag gatttctacg tatgggggaa gggcgcggtgc 2880
 ttgaggaatt agcaccgact tgaaggtag atgactggga tgaccaaact gacattgacc 2940
 ctctccgatt tctggcgccc aagcttcgta ccattcggtg tagaagcatt ctatcattgt 3000
 cttgattcta ccgtcggatt agcatatgat ccagggtagg atgtgggtta catgcgattg 3060
 tgccgcccc gaaccagtgc tgcttgcttg gttattatca caaatggact tgacccttct 3120
 gaacaacccg tcctagtgcg ctgccggtca gacattatat cggatagggt gaagatgggt 3180
 cgaatgttta ccaagtttct tcggagtatg gccattgaat tcatggcgcc gtcgcgaaaa 3240
 tctgcaaggt ctgagacatg ccacgatcg caattctcag tcagggccgt cgacggcact 3300
 gtatagctcc tccccgggc caggcagaca ctgcaggatg ttagatattt atttaaacta 3360
 gcatggctcc tgacactaga ctacgcctcg gtctaggacg aatagtgcta tgcaagccct 3420
 ttctgcctt cgtaacagtc ttctgcccc aattcgaggc tggggtcac ctcttcgaat 3480
 ccattctatt gcaggagcct tcttgc 3506

<210> 3014
 <211> 2390
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 3014

gcgtttgtcc cgtctgaaac gcgttatcat gtgagatgcc tcaac gaga agcc ccatt 60
 gtgtctgtct gcgtacggcg agttcttgat ggttcttcac cagagttgga ggagagatct 120
 tgcgactttt cgaagggccg gagattgaag cctaggcacc tgacctgtcc ggaaatggaa 180
 ggcaggctct cagctgggat tagtcagcta tgacaatcgt cagaccagga ctctcacctg 240
 gacggatttg ttcatagtca gcaacacccat tgagataagc caaatagtga aatctgttcc 300

catcgaccgt caatcagatc catggcgag gcggtcgaga aatgtcggat cctcaaagtt 360
agatgcgtcc gaattgaacc gggaaagcca tgtaccaagt aagtctgtac gggatatgta 420
ggcaccaact ctgatcctct tgccaaacag atgtattaaa gcaaagacac aatgcatagt 480
cccagagccg aaacaacgag ttcagcaaag acaaaggagg ccgtaggtgc tcattggttt 540
gggagaaaagc tactgactgc gaagtagacg tctcgctgat ctggagacaa aaataacgga 600
cctactcggg cttctgtccc aaaattccgc ggcgcccact gtcaacaatg gatctgttga 660
gagtcctgag cgcaccgtaa gtactgtttg caccgctagt caagctcaag attatacggg 720
aggatggcta gaccaggggg tccttgagga gctgaatatg gactttgtcc agacgttaga 780
cccaaataca gcttcttctt cttcttcaga aatgatattt gaaacgcctg caagtgccga 840
gagcagttgg attacggacc taggactcag cctggctgtc ctcgagcatc ttcttgatgg 900
ctttcgtcc ctcgcgcgt atttcccc ttgtcatcatt ccggctgatt ggaccgtcac 960
gtacagggcc gaagacgggc ctttccctctg ctctcagcgg tggatgtgtc gctcgagatt 1020
cagtatctcc agcaagccct gctgagggaa ttgaaagtaa ccctaagcca tcgtgtcgtc 1080
atagctgggg agaaaggctt ggacctactg caaggattac ttgttcacct ggcttggtt 1140
gttttgtgct cccgttccat tcagctgcag aactgactga ttcaggtttc atttctacct 1200
ggaccgcga agccggcaga cctaccaata tctgcagcta gcgatcagta tggctggtga 1260
gcttgatcat agagcagaaa attgctgacc tgatcgaggg ctcaactgca ccaggcgacc 1320
tctgcagtcg tgaagcatgt cgtgcctacc ttggctgtta ttatctctcc agcctgtagg 1380
aattcaacgt tatctgcgaa gttgggcttt tagctgacaa ttttcaatag tatagcaaca 1440
gccacatcaa agccagataa ctttactac tcagagctct tactgcgttg cacaaggatg 1500
ctgcaacacg agcaggagtc cccgaccgat gaactcatat acccgttgat caaactgcaa 1560
cagttggcac gggagggttg cgacacatat cagtcaggaa tatctcagat caatgcgtcc 1620
catcctgagc ggttcaatgc tcggttgga gagtggtgga cttccctccc cgcagacttt 1680
cgatgcgcag gcaagacccc ggtgtccgtt gaagtctata tttcactaac tgaaagtact 1740
agccatgcta acgagcggat accacgctgt gaagatcaga atctttgata tggggctggt 1800
ttacaaatac ggacagagaa agcgaccccc taaaagcctt tcaggcgact cgatgacatc 1860
ggcaagtttc aaagtgggtc tcaacctaac caaatgtctt attggtgcca aagaactctt 1920

cgacgtgttt atggttaattc ccgaaggaga gcacgataaa ttgcctcttt caatatggta 1980
 ccagctcata ttggccataa tgggtgctgta cagactgtcc gttggactgc cggagacttc 2040
 cgactgggac agagaaattg cacatgatgc tgtgaatttg cccgagtctc tcgataagct 2100
 gatcgatcgt ctacgggtccg ctgagtctaa acgacgagct gagagccagc cctcaaacga 2160
 caagtgtctt ttcacgattt ttctgacat ggttgagagc gtgaaggaat ccctcatctc 2220
 ggctagcaag tatcccactc agaataatgc ttgcgaagtc tctgcacata caagcttcgt 2280
 cagcagcaat tgcgcgcncct ctactcaaag acatagatgt cctgcaatgc gcaatctacg 2340
 gaggcaggcc gcttgaagta caatggatga tgccagactg cagcgtctga 2390

<210> 3015
 <211> 2547
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 3015

agcgccatga gcactgtaac aaccctaatac gaaatcattt ttatttcatt ttcccagatc 60
 taatgcccac cgtaccataa tgtccgcttg gcagcagtat caaccgcctg gaagggttga 120
 tgggtccggaa ttactgtggg gataggagcc accgaggtgg tcgtagtcca tgatgaggtc 180
 gggctcgtgcg aaggaacggc cttggtgacg gtctcggta gagtctgcgt gactgtgaca 240
 gtctttttca gcgcgtcttc gatcatattt gctataccga tctgtttcga ggtgggcat 300
 aatgatggtt cctccactaa gccgtgcgta gccgatgcta ctggaccggt ggctggacgc 360
 atttataggc tctcagcagc cagcgacgat gatggtgaca tccatggtct cgacctgagt 420
 ggaccaaaga ctgctgggtc gattcagagt gagggacgtc attcgccaac tgcgcgcatac 480
 cgggggtggca tggcagcggg ggtcttacat ttcaatcgtc atactgacac cagaacgtcg 540
 tcatcgggca gagagctgcc ggagctctct ggaacatgaa ggaaacatcg atggacattg 600
 gtcgaatcgt gagctcgatt cggctcgtgc aagcagagta aaagcaagtc agctgagcat 660
 tgcagtagct gtcaagggcg agtcttccag tcatcgtctc atcgacgcgg gaaggactgg 720
 gtcttggcgg agccggcgca agttccgata ttgccactga cgacaagcag catcctgaaa 780
 gttggactgg cattattatt gggacgtatt actccgagca agtgccaaag agtgggtccat 840

ttctaattct atttataata tacacgactc aatattagaa tcaagaagac acaccgcacg 900
 caacaggggt gaccccgctg ttttattgta cgtgtctaca gggtagtaga gagatcgaaa 960
 atgcgcatga aaccgatccg gtcaagcaga tccatttagt ccctggacga cttcttcaca 1020
 gngattgcac gccttgctcg cggcggcctc tgcttgcggtg atgacgtacc gccagcatcg 1080
 agggcacttg gatgcctgcg ggctgtaaac atacactctt cctttccac cgatcggaag 1140
 ttcaaactct tcgctatact gccaatcggc gctcgtatc gtgtcgggaa gggcttcttc 1200
 gctaccggta agcgtgactg aggagacgac aaagatatca gggagctctt ccagctttcg 1260
 ttggagcaca gattgggtag cagtgttcg gagctggata tgcacgaaag attgcaagga 1320
 tgagccggtc tgcttgcttc ctcttgctt ctccagcata ctcttgatag cggagtggac 1380
 cgtgacgatc tcttgatagt ctccactcag ggacgggtcc tgccattgtg ggtcagggtt 1440
 cgagacagtg cgtctcagag ggtgctcaaa tgcggccttg agcgctccg ggggtgtgctc 1500
 ccaagtttcc tccaccaata acggtgtaat gggacctagg acttcctgta gatgttggtg 1560
 aatgtgaaac agtgtcggtt gagcagcccg tctgctagga ctgttttcgg cataagtata 1620
 caggcgggtc ttgatggctt ccatgtaaaa agcagagaa tcgagggttcg cccatcgatt 1680
 gacagcactg actgccttg agaattcaaa cttctcgag gcagttcgcg ctgcaagcgt 1740
 catttctgag aggtgtagaa gggcgattcg atccaccagc agaagttgat catactgaac 1800
 cttattttct gggcggaagt ccgaaagggc accaaggagt agcttaaaag taacgcggta 1860
 cttgtgcaaa ctggtatgga ctgtttgtag aacttgcttg cccatgacaa cgtcgcgagt 1920
 gtagtcactg cttgcggccc acaatcgaag agcgtccgga cctaaagcgt cgtaaacggg 1980
 tttcccatcc ccccttgct tttttccctt tttctgctt agtggaggta gaagagtgcc 2040
 ggccatgatg tcttggggtt ccatgacgtt gccaatggat ttgctcatct ttcgtccctc 2100
 ctgctcaagc gtgaagccat gggtaatcag ggtcttgaat ggagcacgag gcgcgtcagt 2160
 ctggccggaa gcaagctggt gtgcgacata ggtgagaagt cccgactgga accatccgcg 2220
 gtgttgatcg ctacccttga gataaacatc tgcgggacga cccatgttca ccgtaagggg 2280
 tttcaacttc tgccactta gaccgctgtc gaacaaacct ccattgaatc cgcccggtt 2340
 tatagccaga cttgagggtt tttccaccg ggcgatcca aggggaaatg gcatcttggg 2400
 ccacatgcct ggggtccact catcaaacac tatatttggg aaccttcctt ggaagtccgc 2460

cttccccct gtgaaaaagg gggagggggc cccggccgga cgggggcccc ttattgtttc 2520
 ccaaatttca ccttgcccc cccggtc 2547

<210> 3016
 <211> 1155
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3016

gattctcaat agttgttctt aagccagcat gtgggggtcc ctggcggttc tagtggagga 60
 ggctatgttg gaggttgac tcagtcagag cgcagatagc aggacttaaa ttgccccaaa 120
 tatagcaatg gctttctgta aaagcggcgg gtgcaacgtt cttttagggc aaagggttgc 180
 ccaagacatg cttcgagaat taaactatca tttattttga gatgggttaa gctggcagaa 240
 aaaggcggag aaacaggtgc ttcagatcga ggccgaggcc ggagaagtta gttctcaaga 300
 accaatcata tccgatcggc atcgcggcct tttacttccc gcatttaacc tccgaccgcg 360
 gatgaaccat aatccgagta aatgctttgt aatgtttctc acattcgggg cgcagattat 420
 actgtcatgg gtagtatctg cagtgtggag caacttgatg acatgaacgg gtaattggag 480
 gtggatatga ctggccgggg gataaatcgt taaaatgagc tggatcgcag aaccccacca 540
 ttaggcctgt gtgccccctc aatggcatca tgcgccctcg ggggtgctgg atggtcctgc 600
 cctgccatgc tgtccttggg ttggagatga tcatgacttt ctttctttta attccaccac 660
 cctgccgact ttattctctc aattttccct actctttcat cctctttgac ctagcaacct 720
 aagcgccatg tctctcgaac acacgaagta agtgattctg tcctcattgc acaatttcaa 780
 cgtcgactgg gaatgaatac tgacacgctt tcccgccca gaaaggttta cacccttaac 840
 accggcgaca aaattccagc cattggtctt ggtacatggc agtccaagcc aaacgaggtc 900
 agagaagctg tcaagaacgc gttgctgaag ggctaccgtc acattgatac gtaagtaact 960
 tcatgatact tcgaagaaca gcatctgact gcaatccata gtgcgcttgc gtacggcaac 1020
 gaagctgagg tcggacaagg tatcaaggat tctgcagttc cccgcgagga gatctggatc 1080
 aacacaaagc ttgacaacac ctggcaccac cgcgtcaccg atggcatcaa cggcgccctc 1140
 tagcaataag gtggtt 1155

<210> 3017

<211> 3302
 <212> DNA
 <213> Aspergillus nidulans

<400> 3017

```

aacgcaacaa atatgaggac attcagtgcg tggagacaca gaggggggaaa tggactgcac   60
aagtgccgta ctctgtttga gtgctgaagg ttccaggttc gggcaggcgg ctacagtacg  120
catgatgtca ttgagccggc gccatgaaga tcgtggcagt gacgactgag tggcaccatc  180
tttttgggaa gaattgtcat tcgtctggaa gtatgttgcg gaaaatcgca gtaatcacat  240
tcagggttttg cgatcgacaa gcgcgattca cgaccagag gaaaacgccc attgctagaa  300
ttagcttttg aggtcctaca ctgagtctat ctgtaaagcc gaccacagct caaaatctcg  360
tagcagttaa gcatatcaga gagtggatta tgccggcacc actcacttgc gacaagctgg  420
tcagccctgc tggaagtggg agcctggggg cccccgggac agtgtcccag cacgcgatac  480
cgcccgctct cgtccaattt ctccaacca ttagcgaact cgtcaaatac cgacggtaat  540
gtagactcct cgtcgaacaa agtcttcac tcattcattga ccgcggtaga atggcggatt  600
cgactacctt ggcgcttggc gcggacactc tggcgggaata tatgaaccag attccgcctt  660
aattggggcc gacttgggat actagcaaaa aactggcaa gtaatagaaa ggtgttgtct  720
agaatgtcaa atttgccttg tcgtccact agcacgaata gggccagggt gatagcgtag  780
atgggtcaaat ggtgagcatg agctgtgccg taattctgtc gctgcatgcg cacaagtgtc  840
gcaattgctc gcgctgcaga ctcaatgggt tcacacttgt tgcgctctag cagtgggctg  900
ggactcgtaa ggctttccgg ggttttgaga cttccatgg ggggaccag gatctcatcc  960
tcggcatgga acagtagaag gatgatgatc agagtgtgat accgcatttt catgacaagt 1020
acgtacggcg gcacctcgtc gtctcgcttg aagtgggcgg gcaatccctc cgtccattcg 1080
cgcagcctcc ggaacaacac ctcttgatc ctgattagt ccgtagccga tggactctt 1140
ccgtgactcg caaagagcca ctgggacatg tccgcgcga tctcgctcag attgcacgat 1200
atgtcgaagt actcattgag gtatgactcc tttggctctc cacttatggg gtatggcaac 1260
caacgagtat tctggtcatg tctgttaggc cgttcgaggt tgatcttgtt tataagactc 1320
gategtagga agccggtgtg tacaatccta cagggttagt tcgggacaca taagagctgg 1380
aggtaagaca cacgtatcaa tctggaataa gcccaggca gtccgcctta gtgacacttc 1440

```


catatcctcc gggaactcgt tgctcgatag ggctggcttc ctttcaccaa taagtccctt 1500
ggcctctcca gtccaaatgg ccaaatgcag cattttatac ccgcaatcat tcttaccgca 1560
aaggagatct ctagcggagt cagcatagca cagtctctaa agagcattga ataccaacct 1620
ttcacatagc aggaggattc cttgaatgtg ggtgagtgat agtctgggag gctcgatttc 1680
tcttagccgc tgggctcag ccaggaagtc attccccttg ctcatgatat ctccctgtct 1740
ggcgtatgcc tccgaatagt ctgaaaaatg ctaaactgtg taacacctgt ctgttacata 1800
caaggtagcg cttacacatg cattcgcgag tagcgcgctc accaagaagg ggctgcaaaa 1860
ctccgagttg atattcccc caatcatgtg cttgagaaac acatcgcggt ccagaaagggt 1920
attgaacgga tagtcccatg taaaataaag cgagacgaga tgagagacga gatcagagtc 1980
ggtcgtaacg ttcgtccagg gttgcgcggg gactcgatag ggagcatcaa cacagaggta 2040
gtgtatgtcc atgacttggg gccgccacga ctgcataaaa tcttcgttga tcatacactg 2100
tatatcctct aggttgctga ctggttcttc cgtctcatca ccttttctcc cagtaacttt 2160
gaggatgctc ccaatgcgat ggcgtaactc ttcggttgga gcgtctcgtc ggatcatgtc 2220
caccagtctg atggcagacg atctgtcttc ttcacgcatt gccctgagaa gatcggtata 2280
caagccgcgg tagtagtcca attcttcagc tgtgcgcttg gccgccacgc ggcgggcgctg 2340
gtcaagcggt tcgtcgaaaa cacaatctct attcaagggt cggcagggtg cgcattggctg 2400
cttaccgag cactgggtgt gttaggcggg ttggtctcgc tgggcgggat gcttgccctt 2460
cgcttcgatt ttttacaagc tatgcatgcc attgaagccc gctgctgctt cttgccggaa 2520
tcaccggagc ctggcgctc ctccatcgga gagtcacttg gggatatttc gcacgtggg 2580
gaagggcctg gagcgagttg tcgatgctgc gttggggact cggtcataat cgttcaaagg 2640
gcggcgatct gagtcaagt accattatgc caaagagagc gaccatttcc gtcacagatc 2700
atcctagccc tctcctcct tataaattag gagcttgctg attcaccata tctcgtgacg 2760
tategccgcg ttagcatgta tgtgtggatc gatatccgcg aattgcaaca acgcaactca 2820
gccatcaact tgcgccattg gcggctctgg cagccatctc ccggtcaaca tctagaaga 2880
gaccacggat ctgagggcac gaagattgaa ggtgggtcaac ttgtccgcct attctgtact 2940
ttcacgtgat agcgatggtg agtgggtcga accatctccg aacggtcgag gccttcttag 3000
tgtcggggga tcccaacttt ccgtgagacg aggagtagag caccocgctc atcagccctg 3060

gccggattga tgcggctttt actgggggttg ggcacggtat tatttgggtg agcacatatt 3120
gaaacatctt gtgatttgtg gcaaacggac acctaccca acaaccctaa gtattcttgc 3180
aggctgtcta tcaactttgt ttctcgaata ctttgcaca atgccgggaa ttagtccctt 3240
agatagagcg cgaccaagct cttgatctgc agatacctgc tgttccatta atgggggtct 3300
aa 3302

<210> 3018
<211> 1053
<212> DNA
<213> Aspergillus nidulans
<400> 3018

aaggcgcaat acgctcaatc ccatccggcc gagtttggtc ggtgcattgg agttccagtc 60
tgttttgtcc tccttaaaac ggtcgaggag ccacaataga agccactcaa tcggtcttga 120
gaggtactca gacaattcgg aaagcgtaca gggcgatcgt tcacagttcg acaatatatc 180
catagcatct catcccaaaa gcagccgcac ccagggaac agttttctgt ctctcgatca 240
aggaactaat cgaactcgag cggctctggc aaacgacgct atgggtttga aattagacac 300
caattttctc accagtgaac atgcaccgca accaaaattg actgtgagca gaccttcaat 360
cgaggatgga tctaacacgg agatctcgca tattctcgag tccagaatg gcacagagtt 420
taccaggtca cccacgtcta gtgcattttc atcgcgagc ccaagcctgg gcccaagacc 480
aggggtccagc gtccataatc ctactctact cgcaccacct gatgtcttcc agtccctcaa 540
ctactccgaa gcggcatcgg attcccgtc cagcctcaa gtatcccaaa aggggtactag 600
atatgttacg gatgggcagg acaacaactc atcaggcgca ccagtcctt tccccccatt 660
tcaagatgtg cctgggtcac cattatccac ggcgccaagc attcgtctgc ccgcctcatt 720
cagtcagca gagccgttac agtaccagga agatacgttt gacagtggca gtcgacttac 780
atctccggtt aattgggtggc ctogatcgcg ctctttactg cggctggttg tgtctacact 840
cttccaacc ctggatgggt ggaaagccaa gacaatttgg gagaaaattc taggcattgt 900
cgccgctcct agcgtgttcc ttttgacaat caccctcccc gtggtcgacc cagtatctcc 960
cgaagttacg tctgctactg tgctgtcat tgtgacttct gcagaagatg atccgagcgc 1020
agcaacgcct attgtgcgcc taccagagga tag 1053

<210> 3019
 <211> 1677
 <212> DNA
 <213> Aspergillus nidulans

<400> 3019

```

gctagacagg caacggttgg cgctggtccg attgagctcc gagcttacta caagccattc   60
gtatataaag ccctttatga cggccgaaag atggatatgc tactatacag attcagcctt  120
cttgccctttg ggagagcggt tgatactata cgcaaactcat gggctctccgt gtcaaagccc  180
ttgcagtggc agctctggct accctcagcc aggcctcgcc ggtcctatac actcgcgagg  240
acactacctc caacacaacc tacgccttta ccaacagcaa cgggctgaac ttcacccaga  300
tgaacaccac acttcctaata gtaaccatct tcgcaacagg tatgaccgtc ccttcaacttt  360
cccatctctt tccaaccccc ttcagcaaac agcaaactaa acaatagcaa caacaggcgg  420
cacaatcgcc ggctcgggcg cctctaacac tgcaacaaca ggctaccagg cgggcgcctt  480
cggaatccag accctcatcg acgcgcgtccc cgaaatgctc tccgtcgcca acatcgccgg  540
cgtgcagatc tccaacgtcg gtagcccgaga cgtcacctcc accatcctgc tagagatggc  600
gcaccgtctc aacaaagttg tctgogagga cccatccatg gctggcgagc tcgtcaccca  660
cggcactgac acccttgagg aaacggcctt cttcctcgac gcaacagtca actgcgggaa  720
gcctattgtc atcgtggggc ccatgcgggc cgcaacattc atctctgccg atgggccccta  780
taatctcctg caggccgtta ctgtggcgag cacgaaagag gcaaggaaca ggggcgcgat  840
ggtcgtcatg aacgaccgca tcgcctccgc ttactacgtg tccaagacaa acgccaatac  900
gatggataca ttcaaggctg tggaaatggg gtacctgggt gccattatct cgaacactcc  960
gttcttctat taccgggccg tgcagccaag tgggaagacg actgtcgatg tgtccaacgt 1020
cacctccatc ccgcgcgtcg acatcctcta ctccttcag gacatgacaa acgacacgct 1080
ctactcaagc attgagaacg gcgcgaaggg cgttggtatc gcaggatctg gtgctgggag 1140
tgtcgatacc gccttctcga cggctattga tgatattatc agcaaccagg gagttccgat 1200
cgtgcagagt actaggacag gaaacggaga ggtgccgtat tcggctgagg ggggtatttc 1260
gagcgggttc ctgaaccag ctaagtcgag gattttgttg ggattgctgt tggcccaggg 1320
aggaagggc actgaagaaa ttagggcggt gtttgggaag gttgctgttt gattccccgac 1380

```

tgcccagggc ttatgatgtg atttgatgag atatggtata ataatccgta tatatccagt 1440
 agatatcatg gaagatgatg aatagctgcc gatatgtttg tgtatctact cagtatagtc 1500
 tctggcacta cgggtgtatat gagacgacat cgcagacacc gcatatgcca gagatcgaat 1560
 attctatagc gagtatactg tggatgcca gtcaccttga ttgacaccag cgacctggct 1620
 aacgacaccg ctgcataaat gaggtgacgc cgtagtacga catggccgac ctcatat 1677

<210> 3020
 <211> 1349
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3020

ggtcttcac c atccgaacat tgtccagtat ctgggaacta ccgccgatga tcaatatttg 60
 aacattttct tggagtacgt tcctgggggc tctattgcta caatgctcaa gcaatacaac 120
 accttcagg agccattgat aaagaatttc gtacggcaaa tccttgccggg tctgtcctac 180
 ctccacagca aggatattat acaccgtgat attaaggggg cgaatgttct cgttgacaac 240
 aaaggtggca taaaaatctc ggatttttgt atctccaaac gagttgaagc atctactggt 300
 cttggatccc gagcaagcaa tgggtgggggc catattcacc ggccttcgct gcagggtagc 360
 gtttactgga tggcgcccga agtcgttcgt cagacggcgc atacaaagaa ggctgacatt 420
 tggagtctgg gatgtctcgt cattgagatg ttcacgggt ctcacctttt ccagactgt 480
 agccagcttc aagccatatt tgcgatttgt agcaacaagg ctccggcctcc agccccagaa 540
 catgctagta agcatgccgt tgctttcttg gatatgacat tccagctcga ccatgagaag 600
 cgacctgacg cagacgagtt gctcaagtcg cccttccttg ctacaacact gtacctgaaa 660
 tcctttacga tgtcggatag acaatgggcg ttttttagca ttgagcttgg agatttggag 720
 ttcgaattat gtatcagggc aataatactt ttgggtcttt gcgtattctt tccccttcga 780
 tatgataccg tccctcttga ttttaatgct ggcgttgatt aaggtagatt tgggaaatat 840
 atatatcccc caagatattg cgggtcatca aaaccaatc gaaagggttcg tggcgctcgc 900
 aggggctggg tgcggtttta tgacctttt caccgggtc cactgatttt catttataaa 960
 aatatagcgt ttacctttta cctgttgtaa tctgaagctt ctggtttag gtctcattga 1020
 cttatttga ttccttgctc gaagttaagc atttctgggt tataactcac tcacgcgaca 1080

aaacaaccaa tccaatattg cgtacaggta aattctagag aacatgtgta atgaaaatac 1140
 taaaacagga gtaggttaca cgtattctag ctggtctctc agtgcggtt ttacgccagt 1200
 tcaagatagg gagtgttaat ggttttcttt cctgttctta accctatccc ctcccatttc 1260
 ctattcctat tctactcat cctcttctct tctttctatc ttatactttc tgtactttct 1320
 actttctcct tcttttctta tttcctttc 1349

<210> 3021
 <211> 1279
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3021

ttcttgcat cacttatagg ctccgaacga gactcttctg cggaccatca ctgaacggtg 60
 cgacggagta ttcgttacgc ttgagcaggc agtagaggaa acagaaatcc cccgcgtcaa 120
 gcctgtccgg ccagttgcat cattcaaagg tttcttaca ttaggttaacc ctgaagaata 180
 cgacactgcg gtccgcattc ctggtgagcg gtaccacga acaatggtag ctaaaccctc 240
 aacggccagc cagttcgctc tgcgatcaga tttagccgct ggacaagaag gccagtgctc 300
 atctactgcc gttcctgaaa ccagcctga agatggtagt aatctcacca atgtgaggaa 360
 cttgagaact taccaggta ggcagagag tgccctggt ggtaagatcg atgttgaacg 420
 ggacgacttg gccaaaggat atgagtatgg acgtactgct gttcatatca gcgagaccga 480
 tgagaacatc acaaggctgg aaaccactgc ggctatggag ctagtcggtt ttattcagag 540
 cgaacgggta cgtactgctc gaacctacga ctgccttcc gcgactgaca ttcccagtat 600
 gaccgataca tgcatttgtc caatagtcac atcatcatcg ccaaccgtgc taatgacaaa 660
 gcctcacttg cactatctc cttcatccat gcctggttg aacttgagag ttatgccgtt 720
 gctcgtctgg tcaccaaaga gaacaaacct cctaccctag ttctgctcgc accttccatc 780
 gaaccagact acgagtgcct cctcgaagt caactaccat tcgccgagga cgtccgaaca 840
 taccgcttcc cacctcttga ccatgtagt accgtgtctg ggaagggtgg aacgcagcat 900
 cgaaaccttc caaatgacga cttcttgat gccatggaca aatacgtaga tagcatggag 960
 ctgaagggca cagacgagga tgggtaaact acccaacatg cctcgatatg tacacatcgc 1020
 taacgaatac agagacctgg tcaatacgcc cttcccaatt gatgactcct tctcgccagt 1080

tctacaccgc gtgaacgcgc tgattcgctc tcgagctata cacccaaacg accccatccc 1140
gccaccagca aggatcctca ctcaattctc gcaaccacca gagcacctcc tcaaaaacgc 1200
agaggccatc tcaagaggct tattgaggta gctgacgtca agaagggtac taagcaattt 1260
tccccattcc acaaagagt 1279

<210> 3022
<211> 1961
<212> DNA
<213> *Aspergillus nidulans*

<400> 3022

ttatgatcgg agagattgat acgctagctg atcgagtggg agggaagtta cagaatggaa 60
ttgtcgaggt tgaagcatat aatcaggaag aatgaagggt ggtattatca ttgcattatc 120
cagtctgctt tgaggggtttc atgatcttcc agtctgctaa ctagggatta gatacgatgt 180
cgctgttctg catcgctgtc ctcatcttctg tctctgttct gttattaata ctagtcacgt 240
ccctatagtt tgggggctgt gaattgctcg aaattctctt ttggacgttt agaccttggc 300
cttcttgctg gggcgagggt ctctctcttc ttctctctcg tcatcttcat cctcactctc 360
gtcgtcgtcc atatcgaaat cgtcgggatg ctcttcaaag gattgggctt aaaaacaaat 420
tagctgggat cgtctcgggg agaagagaaa gttataccat agtacttcag cgcattgggc 480
cagaggtctt cagcaagggc aacggccaat tcgcttccgg caggaaggc ttcgatctct 540
tcgaagtcgt cgtcaacgtc ctctgttctg tcggcctcgt catcctcgac actttctctt 600
ttgagaagct tctcaaattt ctctgttctc tcttggtcgt ccgccgcaga ttgttcggca 660
gtcacgtcac ttccgcgata accgaagaag ttgaagaagc ttctgccgga aggatgtcct 720
agagggtcct catcgtcgtt ctcatcatcc tcatccctct caagggcctc cacctcagca 780
agcttctctt ggagcttctt gaactctggc aactccctac gagaaccacc cttcttctcc 840
gcctcaaaca gatcgaggt ggcattctagc agacccttgg tgacatccat atcttcttct 900
cagttgatgc ggacaggctc ggaacaagt ccatcccagg tctcttctt accactggca 960
gtggtgaaaa cctgcttctg ccagtatagc tcttgacca gcttctcatt ctcaaagacg 1020
gggttcgcat ccccggtgtg cgactataga gtagcacgca tgttgccggt ctagcccaga 1080
tctttcgcgt gactagtagt cgctctacgg tcaagttatc tagggcatag tcaaggatcg 1140

tcgcatcggc gtgagtaatg taatggtcga cgtctccgga cgcattggtc tccacgcgaa 1200
 accagaaggt gctgtgcacc tcaggggtgcg cgacgatcat ggcgcgctaa tcatacaggg 1260
 gaagaagtta aacgatggag cgacgcactg taatttggtt catgttagca tgcacactgt 1320
 atataacatt gattaacgta taataacatc gccggcgctt tgcaaaccat gcgatgcgct 1380
 ggacaacgag cctatcttgt atcaagttac ttactctgct caacctctgc gcgaacaaac 1440
 tgctgctcca aaaggccaat ctccctcgca acctctgggg gaacaacagg ctccggagatg 1500
 cgctccgcaa gatccttctg ctggtcgttc gacatgttga tgtacagact aggtttggtc 1560
 tggcgtaaata gtgagaatta tcaattggtc gagtaaaaag aatgaagaag aagagcagga 1620
 aatccccgtc aaacttaggt caatcaggta aacactaatc agggggccggg gaggagacag 1680
 aaaaatctga gctctgaaaa attgttttaa ttgcgctgcg cggctacgac ctgagaaact 1740
 aactccgacg gagttggcgt atttcgtcac tctttgcctt ttccggggccg cgacgcgacg 1800
 aacagggcgc tgctttaagc cataagctta aagcggcgtg cgttatctga accactgcat 1860
 agagcactcc gtacaatgat ctgtgtggat atgctgctcg caaactagtg acgagagata 1920
 cgtaagcgcc ctaaatagtt acgatgacac cgacttcttg g 1961

<210> 3023
 <211> 3292
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3023

gaagccttca taagcgtcac agcaagcctc cagacatcga gataaggctg acgtctccat 60
 caggcgctac gtaacctaaa ccatagccta tttctgatgc tcaacaagct caggagacca 120
 accgtaagcc tctggtgtcg gtggagtgcg ggacgaggaa ggtttttgat aagcctgctc 180
 tggggtcggt agtgggtggc ctttggtagt cttagtttcc ttattttgaa tataaagctt 240
 tcttgtctac taagcttctt ggagggcggt acgtatacgt aaagcctcgc caccgttgga 300
 aaggtcaaga cgttcccatc aatactccac ccgcgctagg agaagaaagg ggtttacgcc 360
 tttggcaggc cgccggtcat ataaaaaccc catggagtaa agatcatgat gctttggcgc 420
 ggtcggagct tctctgcttg gattacattt atagcgtagg ttggcatata ttactggcct 480
 caacatttta ggtatttctg agttcttgtg cccgttccac agcctttcag gtaatagaac 540

caaagctgcc tgctattatg aagacagaac agtacgatca aggaaagggtt cagagatggc 600
 aaagagcaat gctgttgtct ggctacgtg cattccagtt tccgttaact ccgccgtaag 660
 tccatccgcc cctcgtgacg aaaaccctaa gtccattagc tccagcgaat ataactgcaa 720
 ctctcgtca tacaatttcc gatatactta gcaagcaaata tataaggggt atctttgaat 780
 taatttacga aattcattat gaagattatc cttacaggca cgaccggctt cgtcggaaacc 840
 gaagtcctcc accaagctct ccagcatccc tccatcacat cgatcgtcgt tctatcccgc 900
 aaacaacttc ctgactccgt tactacggac ccgaaaatca ctgtcaagat tatcgatgac 960
 tttctttcat atccagactc gcttctccat gacctcatag gtgccgaagc ctgtatctgg 1020
 taggcctcca ccgtttaccc tctctgcac tcaactggata cctatctaac gtatgtatgc 1080
 aatataggac ccttggactt ccctaccact ccgatatagc cttttatcgc agagttaatg 1140
 tagaatatac gctcgtgcc gtaagagcgt tcaactgagc tctcacgccg agcttagaga 1200
 aaccactgag gttcatctac tgcagcgggtg cagcggccgt tcgagaccaa gaaaagccct 1260
 tgtggctgat gccacagaca cgcaagatca ggggtgggtct ctgctctact tcatcctttg 1320
 cagtgttgtt ctacttttcc ttttctcacc tggatagctt gcttgatgaa caatctgacg 1380
 tggatgatagg gccaaagtga gaatgagctc ettgaacacg ccgaaaagaa tgctggcaag 1440
 gttgaggttt atgttctccg tccggcgatg attttctcaa cgggctggtc gttgggctgg 1500
 cttctctctg gtatgacgcc gtcgattgcg gtggatactc tgagttaggt catgttggac 1560
 cttgccgtta acgggggaag ggtggggagg gtagtggaaa acaaggaaat gaatgcatgg 1620
 gacaagacgt agaagtatga ttgatgtctg ggatggcttc attctcgttt cgagatcgag 1680
 ttccgtacta ttccgcattt ctctggcagt ttaccacgac tgatttcgct gagggagcta 1740
 gcaccctcac atgtcattag agcctggcag cggttttctg gcatcaggac gaataaacag 1800
 aggccctgcc tgtggcccaa cggcccttca ccaccatgga taatggaggc tcagtctgag 1860
 cgagtctgta tgtgaggtgt ggatgccagt attggcgag aactacttta ctaggtctgt 1920
 gccgtttcat gagggccgac gctgcaatga gcaaggtttg agttgtatga ggtatggttg 1980
 attgttgta tctgaagtgt taacctgaaa atatgactgt ctaagactaa tctgatagtc 2040
 atgacgcctt tttagcttag tgatatattt tccccttct tcccagtag taggaaaggg 2100
 tcacaacca gtccctaata cctgaagccc ttaattcttg tccaatccgt atgctgttag 2160

gaattttaatg aaataacttat agtgctggct tacgtgactc tgcccactta actcaagatc 2220
 caccgtgcgt tgaatgaaaa gcagtcagtc agccatcatc caccacaaag tactacctca 2280
 attcctcaca ttggagcgct aggtctctca tccagccagg taatacccgcc cccagctgcc 2340
 gctcgagtat ttctccttc agtttttagc cagaaaaata gagccagcca cgccgtattg 2400
 acggggcagc ctcgggttat aaggggaaaa gagaatagtc atacattcaa agggggccagt 2460
 ctaccgagct ggtggtcggg cagtaagaaa acaaacatga ataaataagt aaaatatata 2520
 aataagaagt tactgtatac tggctgagac ttctcaaagc tggatagaac aatcttagaa 2580
 caaaagagga agcgcttagg atgattgaac tactgatgct ctcaggctgc tgtgacagta 2640
 acgatacctc atatattacc agttactgct gggcgagtgt tggcttacat atgagttgga 2700
 agcggggcgt ttctgtatcg taaaccagtg actttcactg gatgctggct ctagctcttt 2760
 ctgttaatca cccactcacc agatatacaa aatgagcgt ttgtatctgc cttgaatagc 2820
 catcacgata aatatgaagc agcgttctaa acatatccca tcaactggct aactccccctc 2880
 tcgccaactc agagcagctg tctgctgctg catcggcagc tcatattcta ggcctctgat 2940
 ctcagctgcg caaaatcgct tcgaagagag cttcaacgcc ctgttgaggc gacaccttgg 3000
 actttgcacc tctcgctgat tgtggtttat taccctatta acgaggttcg accgtcgagc 3060
 caccgtcgtg ccaccatcgg gccacccggg ggaatgggaa caggaaccac agcaccacgc 3120
 tggacggaat cttcgcgcca ccaggccata gaggatacag gagcgcgata tatagggaat 3180
 atacgcatat atgcgtgtgt gtgattgggc taaatgaaga gagaaatggc cctcgaaagc 3240
 catactatct acctacactg ccagcataga tggacaacct gaagagggca tc 3292

<210> 3024
 <211> 600
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3024

tgctgcgatc tgcaagaaga ccttgaattg cagtgtcaac cccctgtaga tcttagattt 60
 gggggagagc cactctgaga aaccctccag tgggcggtag aacagcctcg accgaatgta 120
 atccttgga aaggggtgatg ggcctggcgg cgctggccgt gttcctgcat atgctgcgga 180
 gggcctgatg tgttgggcca gaatttgaaa ggatgaggga gaatcatgat catatgtgcg 240

agaatagaaa ccgaaccgaa ctagacttgg ccgtcagtac gactcgtccc tcgaacatct 300
agataaaagc aaagggcaag gctgcgtgag gttatcgaaa aaaattccct ggaggcatac 360
ccgaaaagca cccgctaaga acccacgaac ggcctcagac gtgatctctt ctggcggctc 420
aacatccgct ctttgcgagg aagggggagg cattgtgata gcctaagatc acgaagtccc 480
aagctatcat tcttttccct aaagattgcg gcgtatgaat tggacgccgc tccaaatccc 540
gagcaatcgc gatgacgcag ccgggatcaa cattgctcca aattccggta ataccaatac 600

<210> 3025
<211> 102
<212> DNA
<213> *Aspergillus nidulans*
<400> 3025

ccgccatcgg agaaaaccat agcagtcaac taccgccct tgacgcatct agagaccatt 60
cctttagtgt attccttaaa agacaagctt gacatggaat ca 102

<210> 3026
<211> 1550
<212> DNA
<213> *Aspergillus nidulans*
<400> 3026

gcgctgactg tgggtattgt gccctggact cttttgcaa tgacgaagac aaatgatgcg 60
ctgcatgaga gggcaaagaa ggtctttgtc gtcacggaaa agacggccga tgaagtgaag 120
gagttgttgg ccaaatggaa ggtgcttaat gcaatccgcg gggtgttacc gctgggttggc 180
gggttggttg ggtttttggc tttttgaatg atgcatcagt atagtaatga atgcaatgtt 240
gtgcagtggg ttagagtggg aggggtataac gcgatcatta tgaatattaa acgtaagtat 300
gtacatatat ggtattattc acctcaatgg acctccagcc gaccttttgt tactcgatac 360
cctggcgtag acgatagcca tcagcctaga cctcgaactt ctgcgccag catccctctg 420
agatcttccg cgtctcttat tgcagctccg ccggtggcgg ccttgaggcc ggcagttctt 480
gcatcggcgc ctgcatggaa tgcttgttcc cattcgcgta cacatccgcg acccgcttat 540
cctgctgcgt cggcgcaaac gcctccatcg agttcggcat ctgcgccggg gctacagcac 600
cggaagaacc agaccgctgc gatcgcaccg agaaccagtg gtatgccgac gcctaaccgg 660

actccgagac cgacaccgag gttgctgtct gagctgttgt cgctgccgct gccgcccgtt 720
 ggtgttgtgg tcggtgttga ggtcgtcgta actgtacttg tagtcgtcac tgaggtcgaa 780
 gtcgatgagc tactcgtgct ctctggcgag agactgctga ctacaaactc gacggccgga 840
 atcgagaatg tctgggttga gttattgcag tcacatcctc cgtacgcggt gcagcagaac 900
 gtctcggtagc cgcaggctgt gacgcgtttc cggaatctga aaccatccac atcgccccgg 960
 ttaagtggga ttcaattgag atgagcagtt gagcgtaggc aagacatact ccggacgttt 1020
 cgcactgtgt cgcgcagtgc tcgacgtctc cgttaattca gtcctgtatg ctgcatgtgt 1080
 tttgccataa tgtcattccg tcgtcgtcaa gccgcccgca gaggccgttc gttgcgcagt 1140
 actctccctc gccgcagcat tgcgctgggt tgccgcccta agagcaagta atgcgcgtta 1200
 catcctcggt gccgtcgcgg tcgtagcact tggctaccat tttggcgccg atcgggcgag 1260
 gtcggcggggt aatgggacgg tgtactgtgc tagagctata gctagggctg gtgctgatgc 1320
 tgccagatct tctcccgga tgaatgcgag gatggaaaaa gtgtggatcg cgagacgctg 1380
 tgggccacgg gcgattgcct caagaacgaa attaagaatc caaagaagag ccgatccgag 1440
 gcgaaagggg ggctgagcgt gggatcgcta gacgaagacc taaggccaaa agatgccagg 1500
 aaattgaagt tttggcaaga tgcggtaagg aaccaaagcc ctggtaatcg 1550

<210> 3027
 <211> 2834
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3027

tcttgcatct cacacctgtg tcgtctccat ttcttcttca tttcttggtt gactttcctt 60
 tgatattgcc atattcttac aaccacctca cgcgagtatc tcatttcctt ccgattcgct 120
 ttaagccaat cagtcacccc tcttgcccgc tcaagcgaac aaacggacca tcctcgctcg 180
 accagctcga tatccaacct gaataacgga tggcgggttt gatgggcgct gattgacgag 240
 cgagcccttc tgccctgctc cccgtagcaa ttaacatatg gccagacaaa ggcccaacat 300
 tcaccgccag gaccctcttg aggactctcg cgcactgcc tcgtctgctg gtgcctccgc 360
 tactgccgcc aggtacatac cagatccttt ctcatctcta ccccgcggtg gcctcctttc 420
 ttcgacgcac tgtgttccgt tcattccctt ccccatcccg gtatcccagc ttcggtatcc 480

cgccgacgga gtttcggcaa acaagtattg aagaccggct cctttggacc tctggagcac 540
 ggagctcttg gagcttacat gtcctcatga agatcgccat caattgtttc taacatcatc 600
 atacccccgc gatcacactt ttttcctgt cctctctgaa cccttcgtct agtatcgtgc 660
 ttcgtgagtg accagtttct catgtcctcc agaatcactc gtcgggccgc gagacaagct 720
 gcagattctc ccccgccgc cggttcgggt cctcttcta catccccgc cgctgggttcg 780
 gccccatctc gaaagcgaaa ggctcccgca cgccgcggtc agtcaccgga ctctcggag 840
 cggccaaata gtcatcaatc tccccatcga aagaccaagc gacaacggcg tgcaccttcg 900
 ccacgagcgg caaacgcctc tgctgcagct tctcgtcgtg gtaccgaaa ccgccccact 960
 atgtcacacc ctgggtaggc tggatctctc tggcgcgga gatatacgtt tactgattgg 1020
 tttctgttcg cagtccatcg tcacaccgg cgagggaatc ttcgaagaag ccggcctcgc 1080
 ccccgcaaca aagaaggaaa tctagtcgac atgggaaatc ggctcaagggt aagatttaca 1140
 tgagcaggaa cttttcacct tccgcttgct gttgttagga tgcgtctatt tactgaaatt 1200
 ctatgcgaaa gaccgatctt tagctactca gtcacctccc ccgaaccggc aaaagaagcg 1260
 ctccagaact cgtccagatg tcgttatgaa agaggcagat gacgaattag aggaacggga 1320
 gaaaagcgag gaacatgagg cttccccacc aagtgcagc aatgatggca cgaacccttc 1380
 aggtctcgac gatgaggacg aagaggaaga tgatggagat ctttttcata acagtctgtt 1440
 cggagcgcga ggctcccttg gactccagag tactcttcgt gcccttagcg gtatgatgtc 1500
 gggcatgtca tccgcctac gggatatcct caaaatttg agaatgaagg atgaccgcgc 1560
 agttcaactt atcgcccttc aggagctttc agatctgtta cttgtatcga acgaagacaa 1620
 cctatctggc cagttttctc ctgatactta cgtgaaggag ctggtatctc tcatgcaacc 1680
 aaatgatttt ggggaagaga atccggaat aatgcttctt gcgtgccgtt gtttggctaa 1740
 cctcatggag gccttacgcg gctctgtggc caatgtcgtt tatggcgcg ctgtaccgat 1800
 cctgtgccag aagctactgg acattcagtt cattgacttg gctgagcagg ctctcagtg 1860
 atgtcccttg catttttctt cttttactct tgtgttcgt gccgtcttc gttgggtttt 1920
 gacagtacat cgctgacctt acgacagaca ttagcaaaga ttttcggtgg acttcccggc 1980
 gtccattgta cgagaaggag gcttaacaga atgcttaaca taccttgact ttttcctac 2040
 gagtaccaa cgatccgcag taacaacggg cgccaatttg ttgccggaat ttggcgtagc 2100

attccttccc cgtctgtgcg agatgtcatg cccaccctcc atgaacgttc tatctagcaa 2160
 tgatccgaag gtcgttgaac aaggctgcct atgtgtttct cggatagtgg aaagcttttag 2220
 acacaaacca gagaagcttg aggagcttat tagcccggag atgctaaagg cggtccttcg 2280
 tctgctgctg ccaggcacca caaacctcat cggaccgcac attcataccc agtttcttcg 2340
 agttctggca atcacgtcga aagctagccc cggctgtcgc gtagaactgc tgaaaacgga 2400
 cgtagtgcac actctctacc agatcttgac tggagtctcg ccaccagaaa acattgatga 2460
 ccaagctatc aagatggata gcgtacttgt gatgcaggct ttgattcacc ggccgaagga 2520
 gcaagttacc gaaacactga atgttatttg tgagctccta ccagggtgttc ccgagcgtcc 2580
 aaactcgcat gacgctggta atcccagggt cgctgcaaca tcgggggtcca agccatcctc 2640
 atcgaagggg ttagctgaga aacgacggtc tttgctcatg ggctgtaa atctgagctgag 2700
 acggttcgcc ttggtcttgc tccccacact cactgatgcg ttttctagca cgggtcaacct 2760
 ggaagtacgc caaaagggttc ttgtggcgca cgtcaagatg ttgcaaaatc tggatcctgc 2820
 tttgattgag gagg 2834

<210> 3028
 <211> 3795
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3028

cggggctgca ttagaagcct ttcgtttcca gaatggcctc ctctcgtcac catttgtctc 60
 cccagggtgg gggctaggag acctcccagg ccgtccacgg gacgggccag gaggtcatgt 120
 atttggggtc ggtgtccttg gctagacggc ggacagcatc ccgtgatccc gagactcggc 180
 ctaccagttc agcgacccgc gccattcgc gtcctcggc ctcatctgtc acatggcgct 240
 gaggggggaa ttgaagtgcc gtgcttgggt gcagatgtct cggggaatga ccctcatcgc 300
 cggcgccctt ggaggatgag gccttctcca agacgcgctt ccaggacgta aattcggact 360
 cattgcgagc gcgtagatgc catacttcag ttccggagtc gatggagatc tcgcgagaag 420
 tctcattgca ggccacagcg gctagactca acggaattga gccacgcaga gtagcagagt 480
 tggcgctcgtg gaaataggac agcgtagacg tcgaaaagtc gagggagaag aaccgcccgc 540
 cccatccctg atggcgctta cggcgacgct tgagcagaag cccggtgtgt attgttgtcc 600

catctccctc ctggacctgg atttgccggc gcattttggc cattatgcta ttgccccgcc 660
ggcgcgacga tgaggactcg gtatcaccac ctggttggct ggccgcatgt gtagtaggaa 720
ccgattgtgg aggtagagca gttgggtaag taagaagaac gagggtcacg gttttggata 780
tttgcttcga aaatgtgttg tcaaagacaa gtgcgtaatt tccgccctcg ttagggggca 840
catcatatgt cccctggaca atcttatccg ctcacatct gccaacccat cgaatctgct 900
tcagacccat ggccgtcaat ttgtcgctaa gcgaacgcga ggcaactctgc ctcgagctgg 960
caccgccatt tgcgaggttc tcaactgaat cgttgctcgg ggtatcagct gaggtcagac 1020
taggggtact gagaatgccg gactggccgg gatgctcata catgccgaag ttcagcgact 1080
tcttgtgcgg ttgaatgctc caagagatgg tatgcgcgga ttgacgggg acccagcgga 1140
cgaagtaaga ctgtcgggta gatcagtcgt cggtcagctg cggaaacccat aactcttgcg 1200
cgttcttggg gtcgtacctt gctatggact tcaagctctt ccatggctgc catgactgca 1260
cgagcgaaca gtaggaggtc actgaccgtc aggaggaagc gttgacggca aggagccgca 1320
attaaaggcg cgatggaggg aacgggggtg taagatgggt gggtagggga ttatatcggt 1380
gcctgaggac gttggagagg ggtggagcgg gttcacgaga ccattgacaa tgacggcatg 1440
ggacaacgag ataatcatgc aaagaagcag gtgataacaa ggacaaaaga gatcggagaa 1500
tatagtagga aatgagaaaag gggaatgaga atcagccgaa tggggcgaaa gcggcagact 1560
tgtcatcttc cgcattcat tctttcataa ataatgcgga gatcttaagg ctgtgggacg 1620
gagcctccta taaacacca ggaacctcag ggcacgtca catgggctgt tgctgccatt 1680
caggaaccgg gcattccgac cattataaat ctattcaaaa tcaattcttc agtggagcac 1740
ctactccata attacttga gtaaagtga tgatccaatt caacggccaa gtctagcttt 1800
cgtccttgaa gtagtagtat agtgacctta tccccgaaa atcatagaaa atattacca 1860
atatagaaga aagatatgct aaataagaat atgcaaacac ttaaaccctt gatccctcag 1920
cgtcgtttcc cgctttgcat gttagtgaac aacagcttga atccattgca caatgcccg 1980
atgtctggat aaggattgcg ctgcagctcg tacccttggg gaatcacctt gaccggccag 2040
ctatgcacct gcgcgtgctc tccggccttg aagcaaagga agaagtaccc ggcattgctt 2100
gggtctatgc agaaggcgta cgccgaccgg cgcgggttag ccttagtata ggtctccagc 2160
cactggctctg aactgccgtt agtactcaat tgaatgtaga atgtaggaaa gtgacgtaca 2220

ggctgaatct ttgctgccct cctgggtatct ctcattgcagc atcatctcat ccaccttctt 2280
 ggccatagct ttgacgtggt tgaagatcag atcatccaga tcaactgtacg taaatcgacc 2340
 cccaaccttg agtgtacgcc cgacggagaa ctattctcc ttgtccagct ctacacatc 2400
 aatatgctgg aagatgccgt ctgccacctt ccaggtgacg gccaaagtggc cgggtccctt 2460
 tgaagacggt cggataacca cgtcgccgag actctgagac ccgaggaact ccactgcctg 2520
 cgtggagttg aacggacgga ataattgatg ttgatgaca cgcattgtac gccgcgcgtc 2580
 ctgtgtcttg gctctaacg cctctcgatc ctgttcttcc tgacggtaat ccattctcc 2640
 cgcgtgtgct cggtcagcgg cgggcctgga cggccggctg acttgttctt ccgcagcga 2700
 cacgttacac gtaaaggctt tgcgggttcag gaacatcacc ttggccggta ctgtttggtg 2760
 tagggagtaa attgctctta cggggatgtc gtaacgatca gtcattctcc attctccaac 2820
 aagtgcgtcg acaccgcagt ccagcttgcc ttcaatgtgg tcgtccctga tgctcttgat 2880
 agagatcggc accaccatgc cctccgcca tgtctgtgct gtctcaccgg tgagcatggt 2940
 gaagatgtcg tctgtgctaa ggaagacaaa gtgttttcgt agctcttcgt aaggctgctg 3000
 gagttccgag cggatggttt cgagcgtggc ccgcttccgc tgggtgaggt tcttctccaa 3060
 ctgttccgag tattcttcaa ggatcagatc atttacacga tcctgagcat cttcccgaa 3120
 gagcttgagg acaattgcac cgggcctggt ctgctctgtt tctgccttta tatctcttc 3180
 gtccaactcc aacgcgtccg ctgccatctt gcgagcgata tcgtagtctt ccggatgcac 3240
 tcgagtgttg tcgaggggat ccgagctctg gtccgcgctt tcgtagtcca tacaagaaa 3300
 actgcagag ttgttcata cttttactcc catggcaggg tactgtacc caactccaag 3360
 cagagaaaac cggctgttaa ccacacctc agtcatgttc actatcttta agaggtgtgc 3420
 tgctttgcgt gggcccaggc cgcatacgt tgggagaagg ttggcagtag ccgggtctga 3480
 cacagcttcg ttgatatcga ctccaaccag gttgaccatg tcgaccagcg cggtttcaag 3540
 ctgcttcagc agtagctctt gcgccaccag ctgctgccca ggcttgaact gaatggacac 3600
 aatgtctcga ccagcgaag catactctt tagagggtc tcagatact tggcaagtcc 3660
 tacacaataa tgagtgggg gagcgaagct ggggtggtct ttcttagccc gatcactgtt 3720
 ttaatagagt cgcgccactt catcgttaac gatcactact tccagccggt cactgacctc 3780
 cacatcacgg tcgta 3795

<210> 3029
 <211> 1559
 <212> DNA
 <213> *Aspergillus nidulans*

 <223> unsure at all n locations
 <400> 3029

```

atagtggatt gcttggcttg gatggctcag aaagggcggg aggagatagt gagggttgtc 60
gactagcggt atcacatggc tcctctagag agggcgtaaa cggcgacgga cgggtttcat 120
gagggctctg actggaaggc agtcgagtcg acacggtgag agtctccagg gtgaggttga 180
tgcgacggga gcggggagag gcgggagaga aagagagaga aggagagaga gaagaagaag 240
aggagcaaaa ggcaaagggg aggggatgaa ctgagaagat gagcagaggc ggaagggaca 300
ataataagaa gtgagaaaga caaatggcag tcagaggagg ctaaagcagg gcgggctctt 360
attggcagtg tatatacaag ctgcactctc tatctgacca agcagatggg gtaaactccg 420
accgagtgca ggacagcgcg acaagtggcg agttgctacc gagcggggag ctgagcggat 480
gacatgcaga actgggttcc ttaaaagaga agaaagagag cgagagcgga aaagctggag 540
actgcgagtg cgagtgcact tcatatgggg atgccagcaa atctgagggg agcatgagct 600
ggcagggcgt cactggaatc gtccaaatgc ctcattat gcttgctata ccttctctgg 660
tcatatagag aacgagatgc gaaatgacaa ctcgagcaca gtaaataccg cccagtggag 720
caaatccagc gtatttacag ggtcttcttc aaaaacaaac cctcctatca ataataacag 780
gctgacaact gacgagtgc aatgattctc atcgattctc tggactcaaa cagctgaatt 840
gaccctccac tgtgctacat gaagaacaag ttgatgcgtt ggcagcgcat gcatgaaggc 900
cttccgctct cctgattcgt cgcccgcccc cctctgcgag tcttgctgtc caccaagacc 960
atccatccaa aattcgaatg caattcaaac catggcctct cattcttgcg ttgaaacaag 1020
atcgtcccg acgaaacaaa gtcgtagctg tcccggtac cgttgaaagt caaattacct 1080
ctacaaaaag gtattacgag ggactcagct tcgatctagt tctccacggt ttcgaatctt 1140
tcctgtgaag cggaatcaat cagatgtatt aatggcaaca gcatgtgcc tcttaaataca 1200
actccatctc tggctccttt atgtatataa taagggtaaa tatgttcgct cctgtcaccg 1260
ccaaattcct cttattctcg catcggtcca tcgtagccgg cggggtacac ttcacgtcct 1320
gcgctgtgtg cccctcttaa aagcgtcagg taccacttcc tcgctggact tctgtgcggt 1380
  
```


ctagtcaagc ggtggagggtc tgtaaccgaa aagaagcagt catgatttta tacaaccatc 1440
cgctctttga cgggggttgca gtcacccaag acacagcagt agaccgtagt cgcagtattg 1500
tacctagttt tatcgcttag aagctaataa tagnggcgtt atcattttca tcatatctc 1559

<210> 3030
<211> 2396
<212> DNA
<213> Aspergillus nidulans
<223> unsure at all n locations
<400> 3030

gattatggtg acactataga atactaggat cttaaactgt ctcctatggc tttctgtcat 60
gtacttcacg gatctcggat tgcgagccgg agagccggtt tctggtaatc tgcaaagccg 120
acagctgagc aattgggcag gcagcttaca gcagcgacgc gtgttcatac atagcacgag 180
cgctgtgtga atgtttgatg gctaacttag aggacgcaac gcattgggtgc ctagggtcgc 240
aacagcgctt agatgctcct gctgaagcat ggggtattgc aaccgtttta atgctgggat 300
ttccaaagtc tagaatggaa cgctctgttt aacttggtgc gaacgggtaca tntttcaatt 360
tgctaaagcc aatttgagat taactaaata tagaactttc caaaatggaa gaagcggcca 420
accaacttga tcaatatcat ctgccccaaa tatttgccca gcctcaccct gtggcctgtg 480
ctctgcagcg actttataat gcgaccaata aacacacagc cctgtccagc attacaaatt 540
aaaaaaacgc catggatgcc aaaagttaaa caatacatta ttcacgtggc ttagcacgct 600
acacctgaac gcctgtccat ggcagctttt aaatgttacc gccctgcagt tgccctcgatt 660
tctcagctca tcaggcggag agtcaatcgc cttttttttt ttttttttat cgaaggatat 720
ggctagagta ctatggcttc cagccggcct tgccacagtc catctcaatc ggatactcgg 780
cttcattgag ccccaaggtc cgccttttgc ggcttcttac cgtagacaac agtactatca 840
aggtcagccc agcgcctgaa gatatttttc tctctttctg agggaaaaag ggcaacagac 900
cattcctgat atgcatggat tcttggagtg cgaaggccct ttgcgatgcg cgacagatat 960
agctcaactt cttcgcgtga ccaactggata gcttagccac agtcctggat actggacggg 1020
gagtgtacct tgagaatggg ggttaacagg tacatgctcc atccctcgat cccttcttcc 1080
cacagcagcc gggtatatag tcccagctgc ttaagacggt gatcgctggc ccatccgcca 1140

atgggggatct tgtatcgctg ctgaccacg tccacaaaac cagccttgat catcctgtcc 1200
 ctggactcgt cgacgatcct caaagatttc ccaaacgcct cgccggcttc gagagagacc 1260
 cgtccccatt cctcgaagat cgtccccaca gtagtcccg cgtccgaactt tggactacc 1320
 gattgctcga cttgctcgat ccacccg ggttgactg atcttggtcc ataggtatct 1380
 agcacttcag ctgcgcagag ggaggctcga cgtaccgtaa tgctgttta tagaacgcgt 1440
 cccagtcgcg gacgcagccg tacagtccac ggatgtgtac gaaatcgaac gcgttgctc 1500
 cgtacagcca ttcgtcgcag cagtcgtcga cttcgaactg gacattcggg ggaaccaaac 1560
 ggggctggat tgggggagag atcgggttcg ataaccgctg aggaaggatg aaggctcgcg 1620
 aattctctgc gcgagtgagt atttataaac aattctcagg ctgcttggga tagggctcgcg 1680
 actatacact gccagatgc cgtccctgt cccaacatcg aggactttct gtgcaacgctc 1740
 aataccgccc cagcctcagg acgcggtcga tcactcacct gcgcgtcgtc cgggataggc 1800
 gctagataga gccgtccgcc caggacgagg ttgtagacat ggtgtcgggt tgttcgtcag 1860
 tcttgccgag ccggcgtgga tgggaattac tcaccgaaa tccagatggt cctgcgcctt 1920
 ctcatcatta ggtcccctag tgaatttaat ttagaaggat ctctaattgcg acccggtcc 1980
 tgctcaccag tatgatccag cgcggtaac atggtagcgt cgcgcgttct cgtagcggta 2040
 atccacaata ctgctccgca gcgaggtaaa ttccctagcg cagcatcagc gaccgcgtcg 2100
 atcagggctg ggtcgtataa gcacagacga gttataatca tcgctataag cggaatccgt 2160
 gtcgtcggga tgctgacgtg ccgaaaagaa tcagctccgc tccaaatcta aatatatggg 2220
 gtgaagccaa agtagcgggg gaagctaccc ctggcctaga gaaatactgc taaaaaatga 2280
 aaaaacaaaa aaaaataaaa taaaatttg gaggaaaaag gggtaaggga cggctcgcac 2340
 attgatgtcg acctcgagcc tgtattctc aaccatgctt gatggatcaa atcact 2396

<210> 3031
 <211> 3107
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 3031

tacgtgccta catagtagga ttgcataatc cagtgcagga tgccgtggac ccaggatgaag 60
 tttccaggcc cgaaaaggta gagggcgctc gggactgacg tagtgaagta gaggataaga 120

tgtgtgagca tgacaacgtc tgtctcgaca cgaactatct gtcgcgcagt cgcaatgtag 180
 gcttgtatta gccttttttag tatgctaggc aattttgcga gatctttcat gtcccaggtc 240
 acgaagacgg tgggctcgaa ctgggccgct tgagtgttgt tcagagcttg gagtctcagt 300
 attgtgtctt tatcggaatg tgtctgattt gacgcatttt gggtcgctat ccaccttgtc 360
 agtatgagct tactcggggc ctgagtagag cgtggacata catttccctc tgttccgtgc 420
 tcccgcggga tcgtttcctt tttcttcggg ctgaagactg ccaactgctgc cgtggatctc 480
 ggcacatgc aaaagagtct ttaaaaccag cagatccggc tcggttagat ttgggtctat 540
 aaaattggag gggcccatgt tgggatggcc tccttactca gagtgcggtg ggttgtcaga 600
 acgtgcagaa gactgtcaga atgttaaggg gaagctacgg gtatcggccc atccgtcagg 660
 ggcagatcc ttagacttgt tgctaaca agagcctcac aatggatatct acattgcggg 720
 aatcccaaac gttttgacat gtagggagaa gaaacctagg tcagaatatt atatacaga 780
 cctgcagaca gttgcttaac tagaccaatt agaaggtgaa aaagacactg acaggatctt 840
 acttttccgt aaatgtgctt agtaagagtt gaagcatgaa acctcgaacg gtaagacgcc 900
 actctacaaa catgcttcac gaacaggatc ttcggccttc tcggcgggag caaatcttga 960
 gtcagatgcg ccttcccgat agcttgtcgt taccttaggg gctcgagtag cgttggtgga 1020
 attgactggc acccatgcca atgccacatg acttgaccaa tcaaattcaa tctacggatc 1080
 tacggatcta cccacgata aaaaaaaaaat tggcgggggtt gatttgaaga gaggggaagct 1140
 gcattcagag caaaggcaaa cgcagctttc aaactgtgaa aataactgct cttagacgag 1200
 ctgtaccttc tatacttagt tcaagtctca gttcggccac tggtactaca atgactcttt 1260
 caaagttgca aggggtcaag ctccccgcat cggccgactt ccacggtgcg tatgaaccat 1320
 ccactccatc gcactgctat agtcaactga tgagggaaaa tagtccacct ccgcgatggg 1380
 gacatgatgg aattggttac cccaccatc agacaagggtg gtgtcaacac agtcttcggt 1440
 atggtaagga gataacttta ctgggggacg agaagcaaga gatgaaacga tgcgccaact 1500
 gcattgattt gataagaacg ccaaataaca tctgatgcta tgatagccaa atctcgtagc 1560
 gccagtcacc acagtcgacc gtgcgctcga gtacaaacag cgtctgcaag cgattgagcc 1620
 aaacgtaa at ttccttatgt ctctgtacct gcacgagtc atcacgccgg aaactatcat 1680
 cgacgccaag aagcgcgga ttacgggagt caagagttac ccggctggcg tgacaaccaa 1740

ctctctgtcc ggtgttgctg actacgagca gttctaccct gtattcgccg aaatggagcg 1800
 ccaggggatg atcctgaatt tgcacgggga ggttccctct cagggtgatg tgaccgtgct 1860
 ctacgccgaa gagcgcttcc tgcctaccct cgtgcagttg catgagaagt tccccaaagt 1920
 ccgtattatt ctagagcatt gcaccaccgc tgcggcagtg gaagctgtta agaagtgcgg 1980
 gccgactgtt gcgggaacaa gtaaaatcgt accttctggg ttccacgtgc aatattgtct 2040
 gaccgtgttg tagttaccgc tcaccacett tcgattatta ttgattcttg ggcaggagac 2100
 cctttctgct cttgcgagcc tgtcgccaga acccctgctg atcgagacgc tcttctgcgc 2160
 gccgctgcct ccggcaactc taagttcttc tttggctcag atagtgcacc gacccccgca 2220
 gcttccaaga gaggaggaga gaagatcgca gcgggtgtat tcaccagcc gtacacgacn 2280
 cagctcgtgg ttgacgcctt cgagcaggcg tgccgaaacg gcgttctgaa ggaagaagat 2340
 atccccccg agatcatcga gggcttcatg agtaagtctg gccgcgcttt ctacggcctc 2400
 gaggagcaga aggagttcat tatcctcgaa aagaaaggcg agaaggtgac aaatatactc 2460
 aagtcggata aggtggacgt ggtcccatc agaagggatc aggagacatg gagcttggct 2520
 tggtcgcat agagcgcttt cagctgaatt ccataggccg caaaagtatc ctttctactc 2580
 ctcttttcta tccgcctgtg taagcatact agtcacggcc tcgagtgcct gtgcttcgga 2640
 gatgttact ctgcgtccgc caacagtaat gttcccatca ttaccaggta gctggccaga 2700
 ccgctcaaga tgtagtctga ttctgcttcc aatgtaatct cgtctctcat ctgacttggg 2760
 ttcttgtct ttcgccaggc ccgattccgg taaagcggcc agcttaggcc ggagctcttt 2820
 tagcatcgt tgcagagcag gaagttgtga caaatgaat gtagttttgg tcgtcaacgg 2880
 tgtgtgctgc tggttcgatc ctgtggcaac gccaacgcgt gattgctgag cagccggact 2940
 cgctgtcaag aacgacaagt ccagatcttt cttcgtaaga gacgtgggtc actttctttc 3000
 gtgtccgttg cagcatccga ggcttgcgtc gctgacaaga tcgctttaag ctgcgcgac 3060
 attacttcgt tctcgcgct ctctgcttc aatgctcggg ttagttt 3107

<210> 3032
 <211> 562
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3032

gcatgactga tatagtggcc tcttcacccat tggcttggag ccgggcttca tccccgggtcc 60
 atgagggcga cagttccaat ccagcttctg cgtatagatc ccagaacaga cgggagggcgt 120
 cgaggtccat tgatgggtctg gtgaaccccg accatggcca tggcatgccg aggatgacct 180
 ggagcagtgg ggggcgtctc cgtttgcttc tttggctagg ggactaggtg ggggtcttag 240
 tcggggactg cgtgggaagg aggataggcg gaaccaggga aggcgccggg gagctcgacg 300
 tttgttccga agaggtcttc tatgaatcaa gttcttagct gagtcgggct tggttaaatt 360
 ggacgcta atgaatggct acgattatac tatattgtta tataccctga tcgtcaatcg 420
 attatgtaca tacattcaac ccttcaaccc tctaccctct actctaaaga gacagggacc 480
 tcgtacgaaa cctactgat ccccttctgc ctactaatct tcctaatacac aatccttccc 540
 gttcttttctg tgctcagcac at 562

<210> 3033
 <211> 2093
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3033

tggggattat tggctgtgta gaaagactta ctgttgatat attcatagcc caaatccttg 60
 agtcttaact tcacgacttg cgctgcggca gtcagaatta cagttgcgtt gatgtcacac 120
 tcgtgcgcat tccaagagct ccaacctaga gctgggaggc ggccctatat tatcaagtga 180
 ggtcgggtca gttaagaaag cttgaactgc agcggaatca gggtgagaag ggtgagagag 240
 gaaggaaaga caaggatata ccactccgtc aggcctcatg agcgcgttgg ctcgggaaat 300
 cagggtgatc agtgctagaa actcgatcat ttgcgcagtt actcctggct gatcgaggta 360
 aaggaaaatt tgaagaagca gcaggaatca tacgggtcttt atgccaggca ttgccagaa 420
 ctgcaaggat gcaggggtgt ttgtctctct gaccaaacag ccatgcctga ttgggactgg 480
 aatctagtct tcgtgatcaa gagcttggtt gctgtcacct aagaagaacg gctaatacagg 540
 ccgcttgctg ataagaaaga aagcgacgac ataattgaaa cggattcagt attgacaagc 600
 gcaagcccag ccctaacgcc acatattcta gggaaacaga acagcctata agaacaaaca 660
 aacgcattca gggaaattga acaaagcaaa acttcatcta gcaagccagc atattcacat 720
 ccccgatcg ccgcatgcac atgaatggat ggcatagaact attggctccc cttctccctc 780

ttcaaccctt cttccacctc cgtcaacagt tgacttaatt ctttcgcgcc ctcaactgttc 840
 ttgccctcaa gctccaaccc cctcgatata aagcttttcg cctcctccca cctccccatt 900
 tcaaccaagc actttccccc gcgccaccaa gccttaacat tattcacggg ccgtccctcg 960
 aactagccc tggcatcgac aagccccctc acccacatct gctgcgacat gtacgcctgt 1020
 gcgcgattcc catacaacgc agcgagttcc tccctagcca cggcaacggg ctcccagccg 1080
 ggccggggcga gcgccatttc gagcgcgaaa gtgtacagac gcacagcctc ggcgtagttg 1140
 ttcttgccgtt aggccatgtt agcgcgtgtc cggagtttgt tgatttgccg ggagcgtttg 1200
 ggggttgaggg gtaatggggg cgggggaatg gatgggggtg ccaggcttag gaggggtgcg 1260
 tggagggtgt tgagggtgga gagttcggcg ttcagggcag ctgtttggga aggcgtgtat 1320
 gttgaggtag cgttcgggga gagggaaatc gctttagatg acgggtcgat tgttagagga 1380
 tattgattga agagatcgat tgattgggcc atttttgttg aagtctggtg tggtcggtga 1440
 ttattgtgta ggtatatgat ctgggtggca ttagcatgcg gaagcacacc accagatgga 1500
 acgtaccggt tggagagcaa tattctagag cgcgtaatat ataagccctt gggtaaaaaa 1560
 gccgaacctc gaaaaaagaa tatatttagt ttgtgcgttg agtgatcagg gggataatct 1620
 aaatagcttt ttgaagtcga tatccgcaag ctgtccagac cgggcgggtg cctgaacaat 1680
 agatggttca cattcaaggc ggtgggaaac tgccatatag taactcgtac ctgaagagtt 1740
 gaaatatgtg tcagacgcta tattctctac caggctgaaa attcagattt agttatacat 1800
 tcaagtcaaa ccatacaaga atccagtctg agagtcattc aatcgtcaag aacaacactt 1860
 tgcattggaa agggaatcaa ccgccgaaa atcatcacat cgccagaaat cgcaaacaca 1920
 tacaagttca gcaaaagtcg cctaaaacac gtaatgcagt acaggactaa gctgattcaa 1980
 aggcgcccac ctccgctcca tggcatatc gggggatttc gaggaaggaa gtaatcggag 2040
 gagtggtttc ggagtaaatt agcgggtggc gtaccgcgtc acagtagagc cgt 2093

<210> 3034
 <211> 1832
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3034

ccgagcagac ggtgtggttg ttgaattggg gcactgtaac ctccaattcg acgaggctgt 60

caaaattctt gctgcggtca actgttttct cgctgccgtt ttcttccccg ttgtcgatat 120
aagttctgac agctttgttg tagacagaaa gaattagcga tggcacgagt agataaacca 180
gaggaaaaca taccgcgaaa taatatctcg tggagtaaca ccccccaag cgccatcctt 240
gagctcgtct actccagaaa gagtagcaaa atcgtttagt gtgtcgccgt gttggccaca 300
cttgacgcca gtctgtgcat tctcacggca agatctggac tctccgtcag ggtcggccag 360
cttgttagagc ttgccccgt agcaggccgt tgcgagcttt tcatcatcac cgtccgagtc 420
tgacgtgcag ctgcgctggg tgtcaataat gaaagggtag tgcgcgatg cctgccacag 480
tacgggaatg gcatatccgt acaaggcctt cgcgaaggcg tcggtaactg tatcatttcc 540
tgtctttccg tcaaatccat ctccatcgct aaggctactg gcaccgttga tgaagtggcc 600
gtccgctaca agagacttga gcgttttgat agagtcgtct gagccgtcga atagcgtagc 660
caagcccatg gtgttgggcc tatcccagag accagcgctt tggcctaggt aagtcataaa 720
cgcgtcttga tcatcatccg accaatcgtc gctaggtttt cgagtgcgct agttagctat 780
gaagggtttta tcaaaagacg gggtcggaag aaaagctctt acggatcctc agtactaaca 840
aggctcgtgc ccacctcgac agctttgccc aaaataccct gagtgatttc ttccgctttc 900
gacttgccct catcaccag cgaagcgata ccaggcagct tctgtagaac tgttgtctgc 960
gtcaaaaaac tacatgggat ggctattcga gaacgaaaca cataccatat ttgaagaatt 1020
tccctccaac cattggagtc gcgtctgaga tcaaataaaa cagaatgtcc tgccatgaga 1080
aatcgctcctt tgggtggaacc ggagcaaatt tcttcgtaaa gtctttgagc gaaggatcaa 1140
ctaccagggc catggccgac acgagaccgt catggtacct ttgatacgct ttactgagag 1200
tattcaagga ttcccagatg agcacttcgg cgggagaacg gccatcctgg cagtcgatat 1260
ttccaccgca gccttcaca atttcccagc acttaccgta gccctcccag tccatcatgt 1320
acgccaagta tcccgtgaat gacgtttggt tcacattgtc ccggtagtag ttccaggcct 1380
tcaccatgtc gtcccaggct tggtcgacgt cgagcgcggc ccagcgctcc gaaggagtgt 1440
aataaggcgt tccctggtag taattattgt cacagggtcaa gctggaccag ttaccgtcct 1500
gaagattatt agattcaagg ggattctgct tcgcatgat tgcctctttg taatctgacc 1560
agttgcccac tgggtcgtca tgccagggtt ccaggctcgt tgcccagttt accgagccac 1620
ccatgttcag tgacttgat ctgctgactc gggactcgcg gacctctggg ctcatgtatg 1680

cgacccattg gttgtcatcg tagacaagga tgttgctgtc gctgtcctca tcgaggtagt 1740
 gtgcggtaac gcggcttgaa gcagtgtcgc gggatattaag ccccgaaagga ctaccgctga 1800
 ggatcctctt atcacgccat agcagatagc ca 1832

<210> 3035
 <211> 553
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3035

cttaccatca ggtagttaat agggatacat ccgacaccac gaagccaacc ctccatgtag 60
 gagagaccga tgttcagggtt cttgcggata ccgtcctcgg tgatctttcc gggaacgttg 120
 gtgttgagga ggtcgttggc ggtgatgttg acgtcctcgc ggcggacgtg catctgattg 180
 ggggtgggca tgtacttggt gaaaacttca ctggcaatcg aagcgagacc tgggtgcgca 240
 acccatgtgc cgtcgtggcc tgcacgaact tcacggagct tatcggcgcg cacgccttcc 300
 atggccttgt cgttggcctc ggcgttgtct ttaatgggga tttgagcggc cattccaccc 360
 tgcatacgtt agtacggata ccgaactttg caaaagaaag ggcataccat agcgtggact 420
 cctcgcttgt gacaggtctt gatgaggagc ttcacgtagg catccatgaa aggtacggtc 480
 atggtgacat cagagcggtc aggaaggaca aagtgggggt gttggcggaa tttcttgatg 540
 aaggagaaga tgt 553

<210> 3036
 <211> 779
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3036

gatatagact actatgcgcc ctctggcat tacaccgaca ggaacaggaa caggagcacc 60
 aagtttttgt cgagcaggaa ggcgagactg tttatgacac cgagctcgcg actgagcttc 120
 gaattgtcat gtacgggacg tagttatgat tcgcttgaag agtatgcata tctggcgctt 180
 tgttcctatt ccattacgtg ggctatgggt aaggttattg tactattata tttgcaagat 240
 ttcaggtcag ggcgctggag gtatatatct ggaagcaata agacccatat tcatcgtcac 300
 ggtttagtat ccatagatta aatatatgca agtactatgg gtataagaat aagtattaaa 360

agagtatgtg aaacaaacag acatccaccc aaaatgccca gaaactccga cttgtaacga 420
 gaatcgtatc atcgaaagaa aataggctag agatcgtcct ccggcgcaag gtcccattta 480
 cgagttgccca tcttcctctg cttctttccc ggagtattga cagcggggct tttgaacatg 540
 ctatcagcta gctttagtgt gtccatcttg cggagcgcaa cctcaatgtc gctctcacga 600
 cccaggatat ttgcgttgcg ggagggttcc agcgcacgat tttttgaact agatttcttc 660
 gatggcgatc tgcagttcaa ttcacgctct aaggcgggta tcttactgcg cagtcgggtca 720
 ttctcgaact cgagttcttg cactcgctca tcggaggatg gttgcggatc ttcgtgaac 779

<210> 3037
 <211> 1767
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3037
 catccgccat catgcctaag gtaagatata ctaggaggct caatgttttg actgccacta 60
 aactaacac gtttgtgatt cagatcacag agattttctt cgattgcgat aacaccctcg 120
 tcctctcaga ggaactggcc ttcgaggcct gcgccgatct cgccaatgag atcctcgaaa 180
 agcagggcct caccgtccgt tacaccggtg aagagctcat caaagacttt gtcggccaga 240
 acttccgtgg catgatgcag tctcttcagg ccaagttcaa gttcgagctc accaaggagg 300
 agctcgagtc atatgttaca aaggaagaag acaaggttat cgctaagctg cttgagaagg 360
 ccaagccttg tgttggtgcc actgagcagg tcgagaagct cttcaatgag aagaagtacg 420
 atctcgccgt cgtttctctc tccgctctgc gccgtgtccg tgcttctatc cagaaggctg 480
 ggcaggacaa gttcttcgac caccgacaagg tcttcagtgc cgccacttct cttcccaagc 540
 ccacctcgaa gcctgaccct gccatctacc tccatgcgct cgagaagtgc ggaaagacgc 600
 cagaggagac tgttaccgtt gaggacagta tttctggtgc tctgagtga attcgcgcca 660
 agattgcagt cattggctac gtcggcagct acaccactca ggagaagcag gaagaaatgg 720
 ccaagcgtct cactgacctc ggcgctcagg ttgtcatgag agactggagc gaattccctg 780
 aatgcctcaa gaagatcgaa ggcgaggatg cttccgctgc ttctctttaa gttgctttcc 840
 aagtttcggt tctacacgat gtcacgacag cgggcgcatt tcctttcttc aatttcgggt 900
 atttcatttc agttttctga agattactct acaaacatgc tcccgcactt tgcttttacc 960

aaccgcggga gacggtcccg ctctcctttt tgcggccaag tcttagcagg gagcatatct 1020
gcgctcggcc ttttacatcc agattctttc gggtaggtag acgaattagt gatcccttga 1080
ttaagcata tacaggttct gatggacaca gaagataccc ctagtctgca acagccaatt 1140
aaaagagaat taaatctggc ttccggtata ccattttaca gttacttgcg ttgcttaaac 1200
tactaaaggc tccctgttcc ccactcttat ccaattaaac gagggtcggg accctaacca 1260
ccacctttaa ttccggttga cacctaaaac gcttaattgg aagcaactca tccaaagggg 1320
ccccctaaac catatttctt tcccagatga aaaacctacc cattactctc ccactgtttc 1380
atgtgtgccc cttttctatg aggtattaac cggtatttcc cattacaatt gcccaagtct 1440
tttattcaaa ccactataac tgtgaaattc gtttcatcta tagacaatcc tacttaatat 1500
ctggatttcc cttatttccg gtttcaagt gtttctcat agtccataaa tcttacttct 1560
ctctaataa cttttcactt atttctctct taccttatta ttcccttata cctatactct 1620
aatttatcta atttcttca atgtactatc ttacttatta cttctctgta ctcaattctct 1680
ctttaacttt tatcttttat ttctttcact caattctatc ttttactcc tcactctctt 1740
ctacatatatt ttttctcaa ttctctc 1767

<210> 3038
<211> 1705
<212> DNA
<213> *Aspergillus nidulans*
<400> 3038

gccgtcaagt aaaagccgga tctacacgga aatgttccta gagactatgc ggaacgaagc 60
cagtagcagg aggagtttgc aggcattctc gggtttccgt tgctttgatg gctaatacgt 120
gatcgatgtc ttgtcttctt gcctttggag caatgggagt cactttatat cttgaatgta 180
atatctcaag agcccttgat cttacctccg tgccagtgcg gccttgtgta gtgggcattg 240
taaataactgc ttgactgcgc atgataggct gatgccctgt tcgacgagct aactggcca 300
gtgaacaaca aggcgccatg gtaatccacg tatcagaatg acaacataac taggaaccta 360
gtgacagccc gccgatgaat cgctcggatg taactaatca ttgaatttct gaatcagctt 420
caatggcagc tgtcccgaat agataatgag ggctccgttc attcaaatac ctcctactt 480
agtaaatata cacaactca tcgttctccc ggtctgtcaa atccaagaac gcattattcc 540

cagtctgctg gtcttgacca tctcaccgc caccaccgc gctctcatcc gaatccgcct 600
ggatgaaagt cccatgcac gagcggtcca ccatttttgc gggcttcca tttgccagac 660
gccgcggttc ctggccttta ttcattcaga acagcagcag ccactgcatt cctacgacag 720
caaccaaggc cgaagagata cctaaacagg cctgcaggcc cgggagatac tctggcgagt 780
ccttgctggt gaagagcagc ggacccacga tgtttccacc agccgaggca gcctggtata 840
gactcgtgac tatactttgc ttggtcatac cggcggtggt ttcacaacc cacgcaatga 900
tgatcggggt cccgccgaag aggaaggcaa gcaggtagta ccctgccatg agggctccct 960
gtgccgagtc atcgcgtggc acggcgtaaa gaactccaag tctgcgaca acggggagca 1020
taaacagcgc aagaacaacg ctttttagcc gcgctttctg tgcgagatag ctggccagca 1080
ggatgaatat ccattgaaac gcgccgaatg gcatattcag cagcgtggtc ttgtattgtc 1140
gaaaccacc ccctgaggat caatggacca aagacttttg tgaccccgca ccgatgttga 1200
gcaagagcgc catggcgacc caaagtaagg cttgagtttg agccctgttt gacgacctgt 1260
gcattttgac ttccaagagc cgtgccgttt ggttgctcgt gcccgatcag gccgggggtt 1320
taattttatt agaaatttcg ttggtttggt tggttgaaac aaattaattg ctgtaagtca 1380
ctccaccccc ataggtattc ttgtcccaa tatctttgta tgataatcat ttgtaaagta 1440
caggtgaggg tcttcttgct tcttctctc tttgtatttc ctcataggtc gtcatttctt 1500
ttatcttttt tctccacat tttccatcct attcttttga ttttacgtta ctctttatat 1560
ttcatccaat ttcattctta tctatattcc cctcatcaa tattatcttt cctatccata 1620
ttttgctctc atcattgttt gaatcttctt accatatctt cttctgttct tatcctctcc 1680
tctattctgt tattcgtact cgtat 1705

<210> 3039
<211> 4865
<212> DNA
<213> *Aspergillus nidulans*

<400> 3039

gaccgaatct aaatatacct acgacatccg cgcacccata agatcttcaa atgtcggttt 60
tcgcagcggc ccgcagctcc ttggtgtgac tcgaccggtt tcatacgacc gactatgccg 120
gtatcccagc aaatacggac tcaggctcag acccgtcagg tctttttttc gtcatacctc 180

gttactccta aagagctctc agatgccctg aagaagaatc cgtctacgaa gatctcgact 240
 tctccccgcg taataccctt atgcgagct tggtttatgc ccaatgaccc tgaggggtcgc 300
 acagggattg atgtttttcg taaacaccgt gtaccacaag ctcgcttctt tgatctggat 360
 gctattaagg atactgagtc gccttaccgc catatgcttc caactgcaga gacgttcgcc 420
 caagcaatga gtgagcttgg gattcgacgt gatgatgagg tggttgtcta tgatacggag 480
 gagctcggaa tattcagtgc acctcgctt ggggtggacac tcagagtgtt tgggcatccc 540
 agagttcata tcttgaacaa ctacagggtta tgggtgcgcg atggctaccc gacagagacc 600
 ggcgagcctc gtcaaccgga gaggacgaac taccctgtgc cttcatacga ctcaaagctc 660
 gtgattccat ttcgtgagct gaaggagatc gccaaaggag atcgcaagga ggggtgcgaaa 720
 gaagttgaaa tcttggacgc cggatctcag ggcgctgggc gggaactgac cctgagccgc 780
 gccccggtct atcctctgga catatccctg gatcaatgag tctcccgttt caggaattgc 840
 tggatcctga gaccaagaca taccttctc cagaccaatt acgaaagatt ttcgagtcgc 900
 gcgatattga tgagaccaag tctatcatca gctcctgcgc taccggcgtg acagctacta 960
 tagtcgagac ggcgctgggg ctggccgaat acggtgaccc tagtattcga agagtatacg 1020
 atggaagctg gacgtaagtg atctttctc aacgcggctt ttcatttact taacccatgc 1080
 acaggggaatg ggctcagcgt gttagacca cggatggatt gattaagaag gcaacctaa 1140
 cagatagcag cgctgatctg cctcacttgc cgcttgttct tacctcttta tatgacgcgg 1200
 tggtttggtg aagtaatgca tgttcagttt cgcgcatagg ttgagcgggt atccatctta 1260
 tagagtgtag tcttgagtaa cctactaggt gttttagatt ttctgagcag cgagatcaat 1320
 tgctaagcga aataaattgt taaacctaac aaagatgttt acaaagaaag gactataaat 1380
 acttccgggc tttctttgta acgagtaaca agatgcttag taagaggcaa caggaaggcc 1440
 cgcgagttga tccggtactc cttcggtggc tttcaatgtc ccatcacttc ggccgcaccc 1500
 tacgtcagcc ggaaacacaa gatgctgccg atgagaattc ttcatgaact aggatccgac 1560
 tgtaagtgca ttgaagtttg gcctcgttcg tcgatggacg cagccgctta tgctgaaatt 1620
 ccaacccgct acgttcccc cacattcctg atctctccgc cgacaacgat ccacaacctc 1680
 tctcaagctt cggctgaccc aacgttgtag tcgcagtttc tagaacaggc tacttggagt 1740
 agggcgtctg cgcctacagc ggctcgatc gatcacacaa gcgcctgcgt ttgccgacta 1800

ccgccactga agcgaacacc atgtcggccg cacgcaaggt cttccactgt gccgtggatg 1860
 aaacggcatt aacgacgaac atcagcgaga taaaaaaatg ggccaccaac ggagctatca 1920
 ctctcatcgt tctcttttac agtaaggccg tttggatttg acccctgcct gccgcgtcat 1980
 ccgctcactc cttttccagc acttgagcgc cttcatgcat tgaagaaagc cggatcccag 2040
 gtcgccatca acgctcgaga ggcagtgcgg tttcttgacc gcgcaacctc ggacaaaggc 2100
 aacgctgctt ctgaacgagt tatattgcag ggcccgatgg aacagtttga agactggagt 2160
 gaggcggaga agttcttttt accggaattt gaggaggaac cagaagctgc cgggagatta 2220
 ggctcagcgg acgagccgac tctgcaggac aggcgcgagg agaaggacag tgaccgcagg 2280
 aagagcaatg gtgctacgga cgacctatca cggatgctcc tcagcaagct gaatttcaag 2340
 aaggaccggg atgccgcctc ggctacatct actggcactc atagtggccc cgctcccgg 2400
 ccgtctcca ggagctcgcg aacaagtcca gactgtgtgt atatcaatgc cacgaatgga 2460
 gacgagtcga aggattacaa gagcaacgga caccgccgca ccgcctctgg gtgtactatc 2520
 cccgttgtgc cgcctgtctt accgcttttg cttagcgcac ttctttggaa actacacaaa 2580
 agtcccgatg catctaagtc tgctaaggct cctatcctag ttaccaacga ccgtactacg 2640
 caaatttggg cacaaaaatt tggatttgct gtcaagaaca tccatcagtt gcggacttcc 2700
 attcaatagc aggaaaggga atataaaaac cgatgcaa atcgctcgagaa aactcaaac 2760
 aatgagccga aacccttgct ctctacgaa gacgaaagt atgaggacga gctagtgttc 2820
 gtcccccgcg gccgtggcaa aggcgtatcg aaaagtgggt gctcccgtag aagcaacaat 2880
 cgcaagactt caaccactgc caaaccogtc gcgccatctc tggagagtac gatagaaatt 2940
 ccaacccaac caatcgacc caactcgttc agccggctgc tgggcgtgcc ctggaagcag 3000
 catgccacgg tcgatttgag taccaggcc ggccgctcac gtggcttcgc aggcgcctcg 3060
 cggaacaatg gaaacaaccg gcgcggaacg tctcgtggcc aaactcgtgg cggcagcccg 3120
 tggccgtggc aagctatggg ttccttgatc ttacgatggg ggtccgtcga ccgttatgat 3180
 gcgacggact gacaatcaat acaactacgc gattgaccga atggttgcct tatgaagcag 3240
 aaaaaaaaag gttgtatctg cctagcccg ctcagttctc tgtcagtttc ctttataggt 3300
 aagacatatg ggttttgagc ggatgaccat ggatgcaaga gccggaggat ggaggtgtca 3360
 aatacggtag ttattccacc tcgggattcg actacggaga attgtgacat ggcctagatg 3420

gggttcagatt gagttcaggt caggtccagt ccaggcgtcc actttgcgtt cctatgatcg 3480
 ctcatatcat gtcatgcctt tactccttta ctttccgttt atcatggagg aaacggggct 3540
 gctgtttcat ctgccgcgtg ggtagaacc cgtgtccoga ccagatcagc atgctttgca 3600
 agaggtaggc tattcaacat gctactctta gttagttacc agcatacatc tctgccaaga 3660
 caggtgtgct ggaccgtcct tcttttattg tcccgcgttg attttgtcgg catcaccaga 3720
 ctgagactgg atgtcagtta ccttacttag ctcatggaat acttcacata tctagaactc 3780
 ccatatgagt aatcctctta acaaagtgtg ggtaggtcgg tttaccccg c gatgatcccg 3840
 tgggacagtc caatcacttg acccggccac tcgcttcccc tcatggccgc gacaaccatg 3900
 ccgtgacgat gagactgcac tagatcgta cttgagatcg tacatatatc ccgacctgtc 3960
 tcacctccct tactctctac gcttaatcca tccaaagtga actgagaaac atactgaact 4020
 ccattttatc tgtaccaaca aaatctattc atttccaacc tatctcccta caacaatgtc 4080
 cacctcattc gaaactccct ccaacggcac gcccgcaatc gacacaacct ccctcgctac 4140
 ctccccgtc gaacgccgcg actcccttga gaaacacctc ctgactcgtc ccgacccgaa 4200
 agacctcaag gataggcata tcctgctcga tacgaatgtt gctccgtacg tccaacgctt 4260
 atctgtacta tctccctgta tctgggtggt acgctggttg tacaattatg ctaatcacgt 4320
 tggcggatta tccagatcca tccaagcaat gcgccagaag cttgatcgcc agcagctgtc 4380
 ggataatttg aagaagagcc tggagcatcg gccagagagg gaagaattgg ttgagcgtgc 4440
 gtatccctgt tcctatctcc attgccttgg gcttcttcat tctattctcc cctgagtttc 4500
 gtcagactag ttccgcttgt aacactaggc atgtgctgac agttgagctg ggatacgtag 4560
 gccatattct ccccgctgac gaacaggcgc ctgttaatca gtgatcacct gacaaacaag 4620
 ggccagcgtc tcgctgggat aaattatcat gaagcaggat agatacatcg tctctatcct 4680
 tgatgaaata agtttacgtc atctatactt aggctgctgg gacggcttga ccttggttga 4740
 caaggaacga attgggacag gagcaaagtt gctggataac ttaagtgttt ctttttaaca 4800
 tatctcgggc ttttaccgcc aaacgtattg gaaattatta atgtccgatt tgtcaciaat 4860
 atata 4865

<210> 3040
 <211> 2846

<212> DNA
 <213> Aspergillus nidulans
 <400> 3040

```

catcattccg catagtctga acactcgcgg tgagacaacc aggtcgccag ggcacccctcc 60
tctgtactcg cgtgtcaata cactaataaa gccctgcgat gacctcgaca aaatgcctaa 120
aaccatgact gcacgccta gcgacaaccc cttccccaag aatggcacac aactctccgg 180
tgtaaccatc aggttgttcc ttctcgttga ctctcccagt gacggattgt ctcttagaac 240
gatggtagcc cactaaacga tgagtggacg aagtcagcgt ttggctcctt actatctgtc 300
cgcaagctgt ctcaccctta ttgcgttgtc tgtgctgatg ttcttctgtt gtaatctgta 360
agtgaatgga atctttttca caatgacatg gaatgcttcc gagcagcttc cctagagcag 420
agaaagtcaa gcccgtaaaa agacctcggg atatcaacat tttaactgac cgcgttgtag 480
acatagctca gccgcctgtc aaggtagagt ggtctcgcaa cgatatagga cgaccaagtg 540
acagatatct caccactgag accctgtcgc caggcctcgg gcaactctcc cagaatgttg 600
caacttcgca gtaacatggt gctgggtgac aggccttgtg atcgtcaatt ctgcgcaatc 660
gagtctctcc gagggatcta cgggatacgt atggcggttt ttacagctgc aattcagaaa 720
tctccatagc gcgtcgatth caccgtgtct cctaccgttt gtctcgactc cattctgaat 780
gtgcaaacgg aaccccgagg cagattgaac taatcagacc taggaaggca tggcagtggt 840
cctgctcgcc tggcctggca ctaatagaag actgggtaca accaagatca gaccctcttt 900
cttcgtcaac gacgatattg acttcgagac accaagagct cagaatctgt caaataccag 960
gagcttcttc ccgtgcgcgg acaggaaaacc ctctattgcc tgtcgagtgt ccaaactctt 1020
gatgagcatt gctatttgtc ctcccgttcc ctctctcaca tccgcgctaa gtgggtctgc 1080
agcatagcaa atctcgcccc agcaagctca aaaccaagac cgttttcgacc ctagatctgg 1140
cagaaacttc taccctggga atctgatctc tcaaacgcat catagctctc cagcctcagt 1200
atatgggccc tcagggtctc atcgccgcgg gttcaccatc acagtaaaat aggccatgac 1260
gaaacttgag cgcatttgta tatcttcgat ggataaaaaa tactgcctgg tctcaggaga 1320
cctagcaggg ctctgagtgc ctctgatgg ccttggcagc atgcacgagc aacgacacga 1380
taatcagttt gaaagacgct aatccaggcc caagttgatg gggtcgggtc gttgccaaag 1440
accttatacg gcattccctc gtttgtttgc gcttagatga ccaaagtatt catgtacctt 1500

```

cttgaaggggt gctgaccatc tgttgggcaa cgtatcggtc tgggtcttcc agtcatcggt 1560
 cgcaggagat gcgctgtggt gctctgtccc agctcctatc cagaacccgc gtcttggaaa 1620
 atcgggtgtgc atatttgtgc gtcaagggtta acacttccca agtccaatct ctgttgatag 1680
 tactccttga ggccgtcctt tgtcatgtga gcccggttg accgcttcta gcgcaggcct 1740
 gtaggaaggt tgacgtcgac tgcgtggatg agacgaatgt cgagaaggag tatcttcaat 1800
 aaaccaact tcttctcgta aaggcccacg ccgagtagga caggattact ttacttcac 1860
 gccatgagaa ctaagctcaa cacaacgtcg tttcgggttca atcatcacc ttctatatca 1920
 ataggcaagg ctccctgcagt gcttttcaag catctcaatg caaagacctc gcgagagcga 1980
 tccctgccc tggcccagag aacaccatgg ccttcaaaa ttagataag ccagtcaaag 2040
 ctgggaatct ggctataagt ctgacaatgt agagattgag tagatgtttc ctgccaggaa 2100
 ggctgtcgac aagactcgcg atggaggggc agaggtgcga agaagctat agtaaatact 2160
 aagtaaatgc aacatctcgt gtcagagatt ggtggccctt aaggaatagg ccgtcgagaa 2220
 aatgttgtca atattgtata gaaggttttc acagactaca aagtgttagc agatgatgct 2280
 ccaactgaaca atatatatat cctagcaatc caccaaccaa tcaggtgacc aatcttaggc 2340
 ggacttgttc ttacttattg agagctaatg caggggtacc agtacgtgtt tactgggact 2400
 tggacaagg accctgttgc tggctgccag ggtccttact atagtaaagg catatatgta 2460
 gtcgggattt gcctctacat gcaattaagc actacgacac aaactcatct aaacggaaaa 2520
 gtggacgtca gaagaaaatc ataccaagt tcatgcgagt ctataatgtc ggtaatgtca 2580
 gtaaccaccc caagaacaac tgtcctcatc tgcagccgca aagcgcggt gctggccgcg 2640
 tccctagatc ccacaacacg aatagatccc acctagaga aaggaaagga tggaaattat 2700
 gtatagaaac caaacgaatc aaccggtcga tggaatgccg aaggaaaaaa ggttaaagg 2760
 tgcaaagacg aaagaggaaa gaaagagaat aaccagtcac cagccgaatc ttcggtgcaa 2820
 acgccatcgc aaagcagggc gtcgac 2846

<210> 3041
 <211> 1446
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3041

agttctgctt ccttcacat gccgattgcg acacactctc cgtggagaat ttgcggcgctc 60
 agaatggctt caatgcatgg ccaatagagt gaccccagtt caaaagggtc cggagacccc 120
 cctcacgttc gtctgctgag acaacatacg ccttgtgccg cgcagatgcc agaattcggg 180
 ccttcagaat ctcttctatg ccctcaaacc gatgttctcc tggcctgacc tcgcgacgga 240
 ccgccttcaa gattgtctcc gcgttctctt ctaaagctgt aaactcttct tcgctagaga 300
 ttgtgcccgt cttgatgacc tctgccatac cattgatgaa ctctctcacc ggcagcgtct 360
 ccaagaactc aaggtaaatg tagatttttcg tcggttgcca gattgcgccg atcaggttct 420
 taccagcgg agtgtcgatg gcagttttcc cgccgatcga tgaatctacc atggccagaa 480
 gagtagtggg aacctgcaca taacggacac cgcgcatgta ggtggaagcg acgaatcctg 540
 tcagatctcc gatgactcct ccacccaatg caattacaac ggtatcgagg ccacatggag 600
 ggttctgact caacatccaa tctcaatat cggccttcgt ctgtcgggac ttggaaactt 660
 ctccgggggg agcattataa ataaggagcg gtggggaggg agtaatctcg acgacagctt 720
 ttcgaaaagc ttcttcaaag ctgggggtgt agatcgatcc gatattcgta tcagtgacaa 780
 ggacgtaggt ggtaaagagc cagtcaactga tcaggtctta agccacatag tttcgccaaa 840
 gcccgtaatc agcgatgatg ctttcccggc caaggatgct gatttttgta gggttcgaca 900
 tggtagagaa cagcgaagat aatagagtga aatgtcgggtg tctctagttc atgcttgaga 960
 tatgcttgcg acggagctcc cgagcgatct ctcaattctc caactgcgaa gactcgtaa 1020
 tggcagagaa ctataacctt atatacgagc gaaagggttag atgcttttgt tcgcaaccga 1080
 ctttgaagct cagagatggc ctagctacga gctgagctcg aggcgcattc agagcgcaat 1140
 gagtgggtcg gtaccggaga ttttatggga gggggcgagg atgagtaaaa ggttggaaact 1200
 gacctttcag aaggaagatc gaaagcagaa aggagcacac ctagcaagct caagatgaat 1260
 tgagattgaa ggagtgggtg actgggtgtt ggaggtgtgg gctgacgaaa agtgtacgac 1320
 ttgactcaat tgactcattg aaaaataatc ccttggggat tttctcccc gcagctccga 1380
 tgtcgtcgtc cggcacactt cttgttcgtg catctaccta cctactataa ctccgcacaa 1440
 agtaca 1446

<210> 3042
 <211> 2150

<212> DNA
 <213> *Aspergillus nidulans*
 <400> 3042

```

gagtgcgcac ccattcataa aatcagcgtc gtcattccaaa attttgccgg ataactcgtc   60
agagcaagcc acgttttaaat cactatgcac cttcctatat tctaagcgcc aattcttgag  120
ctgatcagta tcttctgcat ccaaatttc ttgaagctta acgtgaagct ttcgtataag  180
cgaacggaac tcaacatagt cgtcccatc aaggagagta ccgtcagaac ggagaatttt  240
ctcgactggg tggttttcca cagacgtgat tagatccact aatacgtaat aatattagta  300
tttaattaag atctacccat gggtagaact ttaccattgg acaaagattt tttcagcaga  360
cgtaaagttt tcgctggtaa aggccgttca agtcgattct tgacaatact tgtctggaga  420
gctttcacca tagccctggc ctcatcttcc aggttgacat acttgggggg tcgcgccgtt  480
agaaagcctt tctttgcagg acgatcttgc agaggttcag ttctattaga acgattgata  540
gtaaaagatt gcaaatcctc gttccaatta tcgatatcag tttcataacc gaacttagcc  600
agaagcatgg caagttcctg gagaacctcg accgcagtct catactcagc ctgataccgt  660
tctgggtagg aagctaccca tgggtaaata attcagctat ggtgaaaacg tactggtgaa  720
gcaatcaaaa ccaatgtcta gctggaattt tcttgggcag gttttttcaa cccatttcgc  780
aagtcagaat catttgctgt ttcagatgcc gataatggac tatagcgcca agaatatctc  840
cctgtaaagc aatatcactg cggataacca ttgaattgag gcatgggggt ttctgcaaca  900
ttttattctg ggagaaattc attttacaga aaatatcccc ccaggagtg tatggctcat  960
aagcggcagt ctataggtgt gttagattag gatctacca caggtagatt atttgaacta 1020
gtgaatactt accaagcggg taatatcatt gaactcgctc ataatgcctt gaagacaatc 1080
tgggcgtgcg tcaataacca attttacaac ctggatccag tgcacatatt ggaaacgacg 1140
aagggtattgc tggcgggatt cctcggcatt ccgcattctt tgacctttt taggggtatt 1200
ctcttcatct atctcaagat tatcccctag ggtggattcg gggacattca gctattttat 1260
tcattattag tatatactat attcagtatt gtagggagtt aaaggatctt aacatacaaa 1320
agtctgaaga ttgggatctt gccacaagtt ttcattgcgg actagttccc acagattctg 1380
gagaaattcc catgccttat gtcaggtgt ttctgaggaa ggagccgagt catcttcac 1440
caggaacaga aactgttcaa tctgatgtag ccagctaaat gacatccatt catggcttga 1500

```

ttttgatggg agtctccagg tcggctcgat ccacatcatt acatgatgta ataccttgga 1560
 tacaactgac gagacatttt tctccagatc aaccaattg ttcctacaat cttgtgagac 1620
 atttccaacc atgggtagaa taaatatgag atcttaccag gtggggcagt agagattttg 1680
 atgggcatgg agatgtctga aaacatcttt ataggacgca tcagagagat tgacaaggaa 1740
 cccaggccgt ctggttagcaa actcctgatt ctggataaca atgggggatt ccagtttggg 1800
 aagttccagc ttgctggagt agtcacttga gattggaaat ggttgcttcc gtctttgcac 1860
 agaaccattg gtaaactctg tccaataatc ctgcgctttg gggaaaaaaa gaagcctcag 1920
 ctgggagagt ggacggccct ggtccagagc aaggatcatc ttccaatcat tatatacaat 1980
 gagattctga tgtttagccc caaaaatagt agagcaaac ttaaggaact tctggaactc 2040
 ctgtttccac acctacccta tagtttagatt tccattagaa tgaaatatgg ggacttactt 2100
 acctctgtct gcttgctgc tgcacgagc catcaggaca gttcgttgac 2150

<210> 3043
 <211> 1169
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 3043

ccagtattat aacaatctca ggcgctggat cttctacagc gcggcaatag tgggaatcgg 60
 ccgttgttta ccgggaagca caatgttgtc cccgggtatg tgggtgctgg taatgggacg 120
 atgttctgcg aggttccgtt tatattctac aaagtaggca gaatgatgag aaagaggagc 180
 aagtttgcaa agtatagcgt tgaggtaaaa agatcaacga gggttgaggg gactgcggga 240
 tgcagctggg cgttttagggc tggctgacaa aaggtagctc tagccttatt catgtttttg 300
 atcttatctc gtgtccattc atgccacct tcgatactgc gtaggcaaaa atagttcatg 360
 attattcctt agctgtctat ctagaccgtc ttgcgtgctt gctttatgca ttcgaaccgt 420
 ctgcaaccgt aaagccttgc tacgtgatc gcacccctcg agcaaccagt atgtgactga 480
 tccctaagaa ggcctgatct agcattcagt gatgccggan tatagctgat cactcacccc 540
 caacgacccc ccaccacgca atccccaacg cagcgctgc aacgatcgcc acggcaggcg 600
 gcaccctaaa ccaccgagtt ccactatagg agacagcagc aacaacaacc caccatggct 660

ccctcccca actgacacct tctcactcg atcgccctg ccgcagatac ccaatctccc 720
 atagtcgata cacagccgta aacaccagcc ctaccgcggc ggcattgaca cctcgcagaa 780
 aatgaacgac gtacatcttc cgtcgagag ccgcccagaa actctgtacc gcaacggcaa 840
 gaattaagcc cgggctaaag atggcaaac cggatagcat cgcgccgagg acgctgtgat 900
 gtgaggcgga gagagtgagt gcgcccagaa agactgcaaa attgaagtta ggaccgggga 960
 aggactgaat gatggetaag ccgatcagga agtcacggct tgagaccag tttgggtcga 1020
 cgacgtaact gcgcaagagg gggatgacta cagggccgcc gccgaagata accgtgcccg 1080
 cgaggtagat gttgctgaac agggagaggg gtaatggggg cgaggagagg cgggcgcgta 1140
 ttgtagaatg taataacagg ctatacgaa 1169

<210> 3044
 <211> 2120
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 3044

ccgcgaactg cagaagcagc aagccccaga actgacctaa gatcttgtga tactggaagc 60
 cagggctctcc aaacttggcc atccagtcaa agttctcgtg gcaactgtga tagggatatg 120
 gttccccggt gaacccaaag tctatactgg aaatacctgc aaggctctga aaagccacat 180
 agtcacttcc ggctcctaga ggtgcaaacc tcttgttctt ttgctcccaa atgtctttta 240
 gggctctcgtt cgtaacggga tctgaaattc ggcctaggac ttgcatgaca acgcgctcgt 300
 agagaggaca gccggaagct tcaaagtcg tgccgctgac accgacgtcc acgttgatat 360
 acgcgtacgc attcccgctgc aaattgtcca tgctgtcctc gacatgctcc gtagaaccga 420
 tcaggttata ctcttctgca tcccagctag caaactcaat ttttcgcagt ggccgccagc 480
 cgaacgtcag gagttcaccg aagacgcgca caagttccag gaaaacagca gttccactgc 540
 ccgggtctgc actccctaag caccacgagt cacgatgatt gccacaatg atcttttttt 600
 ccgggttcttc cattccgtga atccttccaa taacgttgta aataggctgt cgatccactt 660
 catectgaag gttcatgaga ttcacagtag gcgacttctc gtcgcctgtc caccattgct 720
 tgaccttggg aacaccgcca acccatttct tcggcacctt tgaccctgtc ctttcaagca 780
 cctgcagaag cctctgcgcg tcacgccatg ccagaggaag actcggaatg cctggcatgc 840

ctgttggttg ctccagactc aacctcgttt tcatttgtgg cgtcgacgca aaccttgagg 900
 acagtacgtc cccaaccaca tacgacatct gactcacggc gcccctttga acgcatccg 960
 cgggcatgaa gcggcccttt gggtaggccg cacctctaac aaacccatca tcagacgggt 1020
 cggaatagat aatacaccgg gccgcaccag cgagttcggc ggctttgacc ttcagagcac 1080
 gatctgattc ggtcccataa taccggacga gagcgatgga gccattcaaa ttgatccctt 1140
 tgtccgcaa atactggaaa ttttccggg atccatagtt tgcgtagacg agatgaccgg 1200
 tgacattccc tgattttgaa tgtccatgaa agaccgggtg ctgctgtca ttctctcaa 1260
 gaatagcctc ccacctgaga tggggtgggt caataatagc tatccgccgc cgtcttcct 1320
 tggggtaatt tagatacacc tcatacttct ccatttcgat cgtctccaag cctgcttcct 1380
 cgaattcccg ctgtatccat tctgcaagca cgtagcttcc ttcggtaacc gccatgtgcg 1440
 gaaactcagt caccctctc aagtattcag cgatattcgt ctggttgata tggccctgga 1500
 cgaaattctc cactgacgcc gcgtatatg actggcccat cataaatcgt gaactaaaat 1560
 taaacacatc cgagacaacg aacacataga tgacagcgat gacgagtaat aaaccgaaca 1620
 ggcgaagcag gataatgcat ccgttagagt tgaaactcgt ccgagctgaa ttcagggtga 1680
 ttgtgaattt gaaattaggt aggaaccggc gaagcgggag atgtatcgac gataacgtcc 1740
 tgccgagatt actgaacggn tttgaagtgc agaccgtaat cggaaccgt gagagctctt 1800
 gtgacttgca ttcttaacat ncatctgatt aagctccccg cggcaattct tcagcgagcc 1860
 cctttcgaag cggcaggcga gagctaagtc atcacgctat ttcgccgact caccgaggg 1920
 ttgtagcata agcccgatta ggcttcggc aangataccg ttttgaagaa ggccgcgttt 1980
 gggccgtttg aaaaagggga aagtggcag ctttggcgga tcttttttaa ggtggggaaa 2040
 tttttttttt tttttccaat ttgtttgcc cccttttggg aatttttccc cccttttttg 2100
 gggaaatttt ttttttcaa 2120

<210> 3045
 <211> 7041
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3045

attggatagg ttttcacgta aggagggagg gacttgtgga aggaggagtc gaagaactgt 60

atgctctgga cgttcgggag ctcctttttg catagtcgga cgatttcgag cgcggcgaag 120
ttgtgcctgc atttgtggac aagaacaagt cagactttct gtattttcta tctcgacacc 180
agtaggaaac aagtgaatgc acatacaaag gcgccaaatc ctccaggtcc tccagctggt 240
ggtatgtttc ctcgttgatc accacaggac tctcaaagtc gccgccgtgt acgacccgat 300
ggcagatata agccaggtcg tcggcactag caacatcttt gaggtcagag tccgtgaagc 360
agcggtgacag caggagtttg aaagcgtctg gccctgagct gatcttctcc ttcagctctt 420
ctttcttctg cttcgagccg acgctgtact tgaatgttgc ggggggtgcg gtgatgccgg 480
agacttgatc ggtcgcgata aactggggg ttttgggtga gctgtagaaa gtgattttga 540
cggaggagga gcccgcgttt acggagagaa tagatttgcg gggcatgttg aaaggttgct 600
gattttgttg tgatggtctg gtagaatagg tagtgtatag tttgtagtcg tctggatgga 660
tagcaggtct aaagtgaat cgacttcgat tagagaatac acgtctgaga cggagctgat 720
tatttgatca ttttcagtgc ctatatcttt tccatcttgt tttttgacgt tgttctatct 780
ccgcgctgtc tcacaatgct tgttgctggc cgctttgtga tgtcaacctg aacacgggtga 840
cgtagtgcag ccgtctctgc cgagtctggc cagtctaccc aacctggctt taggtatctc 900
ttagagcagc agtacaaaaa caaagatatc tcgagcttcc ttaatcttaa actgattgaa 960
aacaatatat caataccctc tacatagcca ccacaatgcc aggagaagtc atcgagcgac 1020
caaaccgggc gccaaagccg tcgcatgtcc ccgatttagt agaaaaactc ataattcccg 1080
cgcagaagac gaagctggag aaaagcgatt gtgatgcgtt gcacaagtat cgtcgcgcgg 1140
cggcgatatat tgctgctggt atgtttggct ttggatggat tagtcgggtgc atgggcgctg 1200
acgcctctat acagcgatga tcttcttaca ggataatgta atgctgaaac ggtctctgac 1260
gaaggaagat atcaagccga gacttcttgg taattagccc tatcgaggct catggctggg 1320
aatgtgtgta ctgaccgatg tcgtaggaca ctggggaaca tgtcctgggt tgatcctcgt 1380
ttactctcac ctgaactacc tgatcaagaa gcagaacctc gatatgctgt atgttggttg 1440
gccagggcat ggagcaccgg gcttgcctagc atcgttgttg cttgagggct cgctggggaa 1500
gttttatccg cagtatacca aggacaagga gggctctcac aacctcatct cgacgttcag 1560
taccagtgcc ggactgccta ggtgagattc tattgatcta gacagaagcc aaggaagcta 1620
acgtgttgaa gccacatcaa tgctgaaaca cccggcgcta tccacgaagg aggagagctg 1680

ggctatgcgc tgtctgtctc cttcggcgca gtcattggata accccgattt gattgtaaca 1740
 tgtgtagttg gagacggaga ggcggaaaact ggtccaacag ccacgtaagt ttgtgattcc 1800
 gtgtgctgaa tgtatcctgc taacggttgg gtcagatcat ggcatgcat caagtacatc 1860
 gatccagctg agtcaggagc cgtgcttcca atcctgcatg tgaatggctt caagatcagt 1920
 gagcgacta tttttgggtg catggataac agggagatag tctgcctgtt cacagggtac 1980
 gggatcagg tgcgcattgt cgaggacctc gaggacatcg acaacgacct tcacagcgct 2040
 atgtcctggg cggttgagga aatccgtaat attcagaaag cagcgcgctc cgaaagcct 2100
 atcatgaagc ctcaatggcc catgattgtc ttgcgaacgc ccaaggatg caccatccc 2160
 cttggcttga ggttaatcag ctgacgtgtg ttaggggttg tcagggccga aagagctgca 2220
 tggccagttc atcgaaggat cgttccactc ccaccagggt cccctcccta atgctaagaa 2280
 agacgatgag gagctccagg ctctgcagaa atggctttcc tcttacaac ccgatgagct 2340
 gtttaccgag tctggcgacg ttatcgacga aatcctatcc attattcctt cggatgataa 2400
 gaaactcggc atgagaccgc aggcctacaa gactcatcta ccgccggacc tccctgactg 2460
 gagacagttc tgcgtgaaaa aaggggatca gttcagcgca atgaaggcca ttggtagctt 2520
 catcgaccag gttttcgtca agaaccgcga taccgtccgg ttattctcac ccgacgagct 2580
 ggaaacaaca agttgagcgc tgccctatca catacgggaa ggaatttcca gtgggatgag 2640
 ttctcgaatg caaaaggtgg gcgggtgatc gaggtcctga gtgagcattt gtgtcagggc 2700
 ttcatgcagg ggtatacatt gaccggccgg acgggcatct tccatcata tgagagtttc 2760
 ttgggtatta tacataccat gatgggccag tatgccaagt tcgcaaagat ggtacgtaaa 2820
 gtcagatgata gtcagcgctt cgtgctaacc agcaaacagg ctaaagaaac ggcatggcac 2880
 catgacgtga gtagtatcaa ctacatcgag accagcacct gggcccgaca ggagcacaat 2940
 ggcttctctc accaaaatcc atccttcacg ggcgcgggtc tcaaactgaa gccgtacgcc 3000
 gccgcgtct acctgcctcc cgacgccaac acatttctta ccactttgca ccactgcctg 3060
 aaatcaaaga attatatcaa ctcattgggc ggctcaaagc aaccacccc agtctacctg 3120
 agccccgagg aagcggaag ccactgccga gccggagcct cgatcttcaa gttctgcagt 3180
 accgacggtg ggctccgccc ggatgtcgta ctggttgaa tcggtgttga ggtcatgttc 3240
 gaagttatca aggcggcagc catactgcga gaacgatgcc ctgagctgcg tgttcgtgta 3300

gtcaacgtga cggatgtatt cattctagag aacgaggggtg cccaccccca cgccttgaag 3360
 cacgaggcct tcgacaacct cttcaccgag gatcgctcca tccatttcaa ctatcatgga 3420
 tatgtgaacg aactccaggg cctgtctttt ggccgcccta ggctcgaccg ggcaaccatc 3480
 aagggatata aggaagaggg aagcaccaca actccatttg acatgatgct tgtgaatgaa 3540
 gtatcgcggt accacgtcgc gaaggcagcc gtcacgggag gagcgagggt caatgagaaa 3600
 gtcaagctgc ggcaccagga gctttgtctt gaattcgatc ataacattgc tgagacgcgc 3660
 aagtacatca tgaacaatca tcaaggtgag tgagctgctt ctgatggata ttatttggat 3720
 tcatcctgac atcttagcag atcccgaaga cacatacaat atgccctcat ttaactagca 3780
 gatggaaact ggagctaggc atatcagcgt accgaatcag aacacatttc acggttaata 3840
 gtccagatcg tcttgcttgg tagtgttgta agaatgtagg aagctaaaac agttgatggg 3900
 gtgagtctga atcgtaggag gacaaatgac aggggcacgg gctgtaacac ggctcggttg 3960
 atcgtcttcc tctcctcttc cccgtactct ggagtcaatc tttctgaaca atgcatctta 4020
 tcatcatcgt catcagggca tcccatcccc ctgtcctgtc gcacccctctg gtacgcctgg 4080
 tcttatattg ctttcattcc tattgttgct gggctgcttt ggggggtcaa ttttctcaga 4140
 ctctaagacc aactgcctcg actctctccc gcccatcgtg tcagagattt gtttcgcaag 4200
 ggtgcgatcc ttcgcgtcga atttttgagt cctcgtcagt tctcacagac accctcggta 4260
 tttgtgaccg gtcactctggc tacggaatgg tgggcttaag gtgacgagaa gtctatcgca 4320
 aggagggttcg tcggggccgtt gcagtcgaca agatcctcac ttggctggcc tgatgataag 4380
 atgatatcga tggcgttgca agatcgatct ttccagtcca tcaataaatc catacgccaa 4440
 taagaacaaa gcgatgcagt tcgactctag cttttcccg cagacaagaa agttgccgat 4500
 ctactcggac caatttccat caacagctaa accattttca acaaaccttg cgaccatctg 4560
 tcaacctctg tggacttttc ctaggetgaa gccacccaa gccttcaact gccgaataac 4620
 acacggcccc accgaggcca gggacaggag tcgaacaaat cagactccta cgtgtgggac 4680
 tgctccgcca gcaaccgaag gctgccatca tggaaaaacg acggacatcc aaatctatcc 4740
 gttcccgaact cggggagccc gtttggcaga ttttttggcg atgcgcaagt agttttcgcg 4800
 atcttccttt cgcgtcatgt tgactgtttc agactctgtc agagactcga cctcatggcc 4860
 aagccttagc ctataatcct cgttcgctcc aatctgatat ctgcctcgc atacttctaa 4920

aagacgctgc tgccgctcgt ttactaataa tttggctcca aaaccaacag cctatccttt 4980
cattcgctat atctacatcc gtgctctata gtctgtacta ttcactcagt ttcaaataccg 5040
acgagcgccc ttacgcaata ttgatcggct ctccctggat ctttcagtcg ttaccccgtc 5100
ttgaagtctc ttctttctct catctacaag ttgttggtta aagatgtccg acagcaactt 5160
ggacataagc aattacatac tgccatacgg caccgtccct tatgagggtca ggagacagct 5220
gcagaccggt tgccatgcct acatcgatgg gataggcact ccttacgggtt atgtcccctc 5280
tctcgcagca ggcacgtctt ttcttgctct cttcggcctt acaatggtgg gccagacagt 5340
tcagtttgcc tggaaacgga cctgggtggtg cgctgtattc gctgtgggaa gtctcagtaa 5400
gtactttctt acccttcgct attttatacc gtcttctcat accataccac cacagccgaa 5460
gtcataggat gggccggggc aacctgggtc gcagaatgcc catacaaac caatgctttt 5520
ctcatgcaaa tcacaacct gatcatcggg aagccctcca ctatatactt tacagatctt 5580
cgaacttggg agaagctaac aaatccgaag cgcccacctt ttacacggca ggcgtctatg 5640
tctccttgg cgcttcctc gaactccttg gccgcgactc ttcaatcctc agcccgcgag 5700
tgtatctcat catcttcgta acttgcgaca tcatttcgct tgtagtccaa gccattggcg 5760
gcggaatggc gtctgtcgcc gctgcgcaag aaaacggcaa cacaactccg ggcacaaata 5820
tcatggctgc cggatcatc tttcaaattg catcgattac tgtcttcgct ctctgcgcgg 5880
cagattttgt ccgtcggacc ctgcgtccgc gctcttcgag aactatacca agacaatcgt 5940
gccgtgctt gcggcgatgg ttttctcgta ctctgtatct atgtccggag catttatcgg 6000
accattgagt tggttgaagg ctggagcggg tatcttatta ccacagagag attcttcatt 6060
gcgcttgatg ggtcaatgat ggttcgtact gtcgccatat tcaacctgat ccatcccggg 6120
tggtttttgc ctgagctctg acatggagga aaagggtgtg aagatgggag cttcacggag 6180
ctgagggtacc tgggttaatt tgacttgact cttaccttgt tcgctttata atatcatcgt 6240
atatatttct ttacttacc gagcaoctt atcgtgcacc tttggatgcg ctggatacct 6300
tggatctaaa ctagagcagg tttccatata gatggctagc tcgtgcaatg cggaagtttt 6360
acaggatacc gcttgaaaaa tagaaacaga cttggaatta acagagctaa aagataaaaa 6420
caagatatta aaaccagcc ttgcgtattc gtaaagttag aaggcaatac aagcccga 6480
gccgcaaaga caagattagg acagtggaac aaaatgaggt gagcccaagt ccaaactgag 6540

tccccctagc tgatacagta taatcccatc cgacttcgcc aggctaagcg aaacaaaatc 6600
ataaattcaa ttcggaataa gaagccaagg atctggagag ttgactaaa gtccatcaac 6660
agcctcaatc caaccataga ccaaccccac gaccaaggta gccgttgtcc atacgaatcc 6720
tccacaccga agcgccttgg aagctagcac cgcttactgt ccctgcaacc tgaatgatag 6780
tgttggccat gagaacagtg gctagagtca ccgttcgctt gataagcacc ctggtcctcc 6840
atgaaagcgc gcccgaagtc ttccgataga cgggtggaggc aagggtactct ccctgctgag 6900
gaaggacgct ttttcctttt tcaatctcgg tatcctgtac ggccgggggtg cccgcagagc 6960
taacaaaaag gaagtccctc gctgcccac ccgctgggag aagagagagg aaaagagtcg 7020
gaaagccgaa cagggccgtc c 7041

<210> 3046
<211> 2284
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 3046

tgaggtcagt aactatatct actgacaggc tagttactga cgtcttttat acttcacata 60
ggaagaggac tttagcacc aactctataa ccggacatta ctatcgcat ttgcatacga 120
gcattttccc agtcttttga accgtgcgat ttcttgatc gatgagcagg aatccattga 180
cgctgctgcy aaaagtgc aaatctctg tttattattt cggaagagt tccttctggg 240
cctgcagcag gatatacata ttttgagac caggctcgtg gacaagctgg cgtcttgttt 300
gtctattata cctgctctga aaaaatcagc ccaacaagt cgaccggtgc ctgaatcctt 360
tagctggaag atacagagaa gattggctag caccgtcccc cctaggccag tggtgaaaat 420
cagctttgag gatgcgctgg cgcctctga acggctgtgc caggacggaa ttcacctcaa 480
tcaaattctt gactacagag ggccatacaa tctgaaagta agttttcctt tgcgtctgca 540
tgctgctgtt tctaaaagtt tagtggtcca tttggacct tctctcccgt aaacctcagc 600
catcagtgt cattcgatcc cttgttcagt ccattattat ggaccagtct accgtcctcg 660
ggtctgtccc agttaagcag tttctctacg acgaactggc ggcgcttgtt ctcccttcca 720
gtatactgct cgaggcaagc cttgacgaaa ccgaagttcc ttcagacccc cgctttcaga 780

tcgctcaatt gatggacggc ttcgttagac gattttctca ggtacgcacg atcactcatg 840
 ttgacttata agtactaatt taagggccag ccatttgtgg atacattccg aagtgcattg 900
 ttgaatcgct gccgtatccg ccgcaccgtc tgtcatactc tcgccgattg ggacaatctg 960
 caaatggagg tccgtcttct agtactggaa accatgacct caattgactg taataggccc 1020
 aagatcttgg cgagcagctt cggactcaan gcggagggcc gcaattatca cttccaaatg 1080
 gagacactac gtactcgtac cctcttagca gctgggccta ccaccagaag ctgatccaat 1140
 tccgattaat tctccaaactc gggttcgagc tgtccatata cggtcagaa gagctccccg 1200
 gaatgtactg gtatttatcg cacatctgct cgacccatct cggtcattat gatcgaatcc 1260
 gaacattcat cctcggggcc gtccagcgga accgacgctc gccacccaa cacgccaccc 1320
 tccgatcatc attcctctc ttcgaccgac taacgacgca gatcgtcgcc atcgacgcct 1380
 tcgcaatagc tctgcacgcc ctctatgtcc ttctatctcg ccatagaatt ctacccactg 1440
 cctcggggcc taacgcctac tcaaacgacc aattccgta cgagcttcgt atgaagccct 1500
 ttcttcaaatt cacgctcccc gaactcgtgc cctatgaaga ataccgtcgc gaagctacat 1560
 tgcaggggtga cagcgacgag attgtcatgg agcgcgctac caaggccatc ggccaacgctc 1620
 gaaaggcctg ggaagcgacg ctgcaccaatg gccattcga caatttcaat gacgagaaac 1680
 cggatgcgcc tgctctcgaa gaggactgga aacgcgacgt gaaggataca atgcgagcgt 1740
 gcattggcgc tagcattgct atcgagactg taaagaaagc gattgccaat aacgccactg 1800
 gcgacgcaga gtactcgggt cttcgagtta acattcccga tgctggctcc aagaatcggt 1860
 ggcattgactg gtgggccgtt ccgcaagttt cacaggtaca gacacaatct cccagtacaa 1920
 cttcaaagtc atgaatcatg agagatacct ttcttacaag tactaaacat acaactgatt 1980
 ccggcggaga tgattccccg cctatttttg agcagtgagc tgagcagtct caaatgatt 2040
 gatagaaggt ggggatagga cgtttcggca ggattatcta ttagataatg aagaccaata 2100
 ttatatgcat tagatacgag gttatagaac ctgaatggat gaatattttt ggccacaggc 2160
 gataattagg caggtatagt tccctcaaga cagcttaata ggccccccg ggttggcctc 2220
 gaggcagtgt agagcagggc gagccgcatt cacactcaac actcaagcaa gtgacattca 2280
 cccc 2284

<210> 3047

<211> 2236
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3047

```

aaacttctcg attaattaaa ctcatataaa ttgcggagga tggggatgat aatctttatg   60
caagaaagtg acagtaatac aacgggtgctg accaaagaat tgtgccgccc agcctgggta  120
ttgtttggta attcagtaat aatgcacacg ttcccgcgcc ttogaagagt gcatgtcagc  180
ctgcgcctgc gcttcagaaa tgctcactgt cctctactaa ttgctctcct caatctttca  240
ctttcccctc cagctctccc aactgcatga gggttattcc tcttgatacc cctgccttaa  300
tatatctttc atttagcata ttcattggctc atgggtgttg atttatctca ttcgttcctc  360
actttctcat tcctgcgcgc tttcccctgt gttgtgtcta ccgaacgtct ccggctcgtc  420
tcgacctcta tccgatcttg acattcgttg gccgcgcctc tgcggattac aatttatact  480
ctcctccctt accgttcgtc ggcgcatact gataacgagt acgccggcat actggctgtg  540
ttgccggggtc ggctcgtcgg agcggagggt ccttaatatc ttgcatctct tgatttcgcg  600
actatacggt tactacgaac gtgtattata ccacagatgg cttcagactt gccgcctgta  660
gatttcccgg ctcttctgctg ataagaagat cgttgtagcg gcgggcctcc ccatagttgc  720
ctagtttgta gttaccacgc gccaggtaga agagacattc gcggcgctcg tcgggatggg  780
cgcggaataa ctacagacag agacgaacgc cctcttgctg gtcagctcgg aaattcgatt  840
tgatcaggcc ctgtacagca tgttatgtca gtagagtcca gacatcttcg tttcttgtgt  900
ggggaatgaa ggtgcttacc caggcatagt tgaacttagt ctgaacacca acgtagtcgc  960
cttctttttc atactgggcg cgaaggactt gaagctctgc tggcttcaac gggctgtata 1020
ggctttgtta gctgctgccg cgcaataact aataatgtgg agaatagacc tttcagcatc 1080
tgccgcatct ggatttggtc agtaccaaat agctcgccct tgccagtttg gaccacgtac 1140
aaggagatt tgaagaagtc atattgctgg aatacagtac cactgtctga gtcttttggg 1200
aagatatgca aaagagttgt gatgtcaaga atcggccagg ccaggcagct tctactgctc 1260
aggtagcgag gcggtgcacg tggagatgtg gcgttgccct cccaaccgtt cccgtattta 1320
ccacggatct gtattaagac agcccctcac tatcgcatct ttttaaacac agcggcctca 1380
tttcgacct atcatagtca ccatgttgct cgacgagaat ccgtctacgg taagcgtact 1440

```

gctcttttat gtgcggctta tactgagcaa cgtcagctca ttcaccacac aatcggcaac 1500
 ttcaacatcg ccccggaaca acaagccgtc tcccgcatac atgattcgct cgcgaccctc 1560
 cagcaatcgc gcgagctgcg catgcgcgaa gctgaatcct ccctccgcaa gctctcacgc 1620
 catctccagt ccctaagcac acaacatgag gaggccgtcg ccgctcacga cgcaagcaaa 1680
 catgccgcgc ccatggctga gctcgacacg aagaaatttc gcatcgccaa ggccgcgtcg 1740
 gaactggaga tcgagagtga gcgtcttgaa ggtgagctgg agatgttgaa ggagaggctg 1800
 gcagatctag aggcgagggg cctcgagggc gatgaggcaa cgcggaggga gaggaggct 1860
 gatgatgcta tcttgatgtt cttgcttgtc attgggcttg gttatatattc taacgaaaca 1920
 ggctacgttt gaagatttac cgggcttttg gcatcgatat cgagcctgat gaagcgggca 1980
 acttcaccaa ggctgttata cgtaacagcc gcaagggaga tgtgcacgtt gtcaacctgg 2040
 atccgaagtt ctgcgcgttt ttctacgcca actacttctg gtcaactatg cagggttgag 2100
 tacttgtttg gcgttatggg gtaggatgat acccagctgg atctttgctt ttgtttatct 2160
 attatcagat ctcataagtt cgtaatacag tacagagtta tcgtacaatt attatacacg 2220
 ggcgagcgca gccgac 2236

<210> 3048
 <211> 2328
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3048
 aaaaaaaaaa tgcgggaatt tggaaagaaa atttttttga atccaaaatt ctccccccaa 60
 attttatatt aaccaccttt taaacaacca agcccatggg gttaagtttc ccaccaccga 120
 atccaaaaag gttactttca aaaaaaaaaat caaagccatt tgcccaaaag ggtggtttct 180
 accaacggct tcccccttaa atttcttgta aaacccccac caaggggttc cctcctgcct 240
 caaaaacact ctgaccagtc aacaggttgt tagaataaac cacaagtaaa gttccatccc 300
 tcaacgaagg tgaataacac gttcaatccg gccaccgtga gtcaacgcta acaactgcac 360
 cgggtcctcg gaaaccgcct cgcgacttcg acgttgacac gcagagtact ggacagtcac 420
 caacagcctc tcctacgcta aatgttccgg atatggcttt ctctccggct tcgggctcgg 480
 ccatggccca acctcagacc aatatatccc ccgttcggaa tagtcatgcg ccatcgttga 540

gttegtccat ccaggtttca accaacacgt cgaacgtagt agattgttcc acgcctgtcg 600
 actctatgaa tctggacccc caccctaccc aggtcttaac accaggtcac aatgggacag 660
 agccagggtgc ggctcaagta gacttgaaca aacttttttc cgacggattc ggtatcacat 720
 ttgagaaact agcagctatt ggtgggtccg acaaaaaagc tcaacgggca aaggtgttct 780
 acatatggta cctgaggac tcaaaagtgc ttaaagacga aaaggactta ataacgagat 840
 ttttgaggat ccacaccgt cttttattct caaatagcgt caatgttgac tgggaaagat 900
 ttacgaccat ggtaacgag aacaatatgc atgggtgtgt tcttgatgt cctccttgct 960
 tgacttcata ctgccctaac actaccgcag tttcatgagt ccttcgtcga atatgacaag 1020
 gttcctcaac tccaaaaggc ccttcgcagg acgaccgggt tctggaagggt gtccctttca 1080
 aagccgatcc aatacgttga tgcgccacta catgtccagc ggctatttcc acatgggggg 1140
 atttttctgt tgaccgagga cctgattgtc cacgaaccgg ttgctgctat gataattctg 1200
 caatggttct acgagtggtc aaaaaagaag catccaggac tatggaaaat aatgctccgc 1260
 cccaatatct tgaactggct gacaaatcag atgaaactcg cagattattc acaagaatcc 1320
 cgggtgtgta cctacctatt cacggtttca gtggtcaatg gaaggctcag cgcttaacca 1380
 aggaacatca ggtggctagg cagtacacca tctggtctaa caactagggt tctgctctac 1440
 cagcaatcct ctatctagct acgaaagtgc ggaaggcgct gtaatctctc ctctgcact 1500
 ccccaaatac gggtttcgga cggcagatga ctactagag attcccaaga actgctccca 1560
 ggagcagcgg aacgcggacc atctaagcga gttttttgcc ggttacagct tagttcacgc 1620
 tcatcgcttc cgccgctttt atattattac agccttgag cctcttgaaa gatggaagaa 1680
 gtggcaacac gttaccgtca gtggttacca ggagttcttt cattcccatg atgtcaagcc 1740
 agagttaatc caagaacgggt tatccaaggg cgcgtcatca gctctttctt cgacggatcc 1800
 cacacctgtc tcgccggctc cgccgcggtc atcaaggcca tggggcactc cgctgtctga 1860
 acagcaatct gtatcgcttg cccccagtt tgcgtccagg tatggccagc cgtatcagtg 1920
 agaaaaattg gatgtccaat tattatctaa cgttgacacg ggagtctcct gaagatgagg 1980
 atggcacgat ataaatgacg gatggactgc tgcattccag ggtataccat tacagcgaca 2040
 ccagtgacaa ctgtatttgc ataagaggaa caactttgaa ggcgatactc gtgcgtttat 2100
 tctctgatca gtttcacaaa ggatagggcg atgggttatg gggaaatgtt ggttgtacct 2160

tcagtttcgg caacatagggc aacatctttt gtaagcggcc gatcaaaatt atgtcgtatt 2220
 ttcacgcccc tctgggcagt atcttatgct ttacgcaggt tataatatgt tttatatgtc 2280
 tcatagacat taaataatac atccctttag tgagggttat agcggccg 2328

<210> 3049
 <211> 5395
 <212> DNA
 <213> Aspergillus nidulans
 <223> unsure at all n locations
 <400> 3049

agtatgactc gtactgtatg gcagccccag tatagaacat cataggcccc gcggttgcgt 60
 tgcccagtag actgtgatag gtgacttttg tctgtaatct tatttcaaca tctacttgt 120
 gacttgtaat ttctctatta ttaacctcga gcatgaccgt taacacaggg gcgccagaac 180
 tgtgtgaaaa gaaaatatat ttataagcga taataaatca ctatgcaaat aaaaaggatt 240
 cagaaaacaa gcataatact aaggaagaat gataccactt acactctggc agacagctca 300
 atcaaagcag gtctcggccg gttctgatcc tggttctggt tctgtggttg ccagtaaggg 360
 gagagggtag taaactggaa gcgagggcta gcaggcaggg taatcttcgg ccctggaggg 420
 atgatctagt cctggccttg gtgatcttgc tttgtcccc aggtccactg tgtgatttca 480
 caccgggctt acagtatctt gtactgactg ccaacatcca gcagtggctc atacctatcc 540
 aggagggtac tgtacagcgt agttttggct gccagccaga gctcaatcag gtccatgctg 600
 tgtacaggaa acaggccggg aaaatcaggt tcatagcaag gtgctggacc ctgcagctca 660
 gcaaccagtg ctctcttcat ctccctacta ttagcagaac agagacatag gataagatct 720
 gaagggtccc acttgaagag gcagggttta tccaagccgt ctccctcgcg tttcattatg 780
 agtgtaatcg tgttgatcag ccagttagca attcgtgcag acaatttctt ccatccagtc 840
 aaggagagta ttaggcaggg tattgtttcc aacaccgcca gcttttgctg ctgaggcagg 900
 gcagagtcta tcttgatagt tgctgcagaa tctgcattga agtgtgggga gggttatagga 960
 gatactgttg gtctgtgtt tttgttatac aagaaaaagc aaaggaagca ggggtgttaa 1020
 gggatcgcga aaagctccag tatttgggct agacaaggca gacttggcac ttgcctgtgt 1080
 tggcttcgaa gcggggcctc tagtcttgac actaaccaac gttaaccatc gggcaaagt 1140
 gagtgggtata tcagcaactt gcattccacta acggtttgtt gggtcagacc catgcatttg 1200

ccggctttga cgctggttca aaactaacca gtggctaagt agagtaactg attaatcctt 1260
 gtcccatact aaggatatga acatcaacca acttgcttat tataattggc tctgaaatg 1320
 cctagacttt gttagtccag gcagtataca cttgtattgg cttgtatta gccagcctag 1380
 actatatctt ctccaccata ctccatagaa accaaaatct aaaagttagt agagtaccgg 1440
 ggtcacttgc actaagatat ataacatata ctaacatata ttaacaaccc ctncaccgca 1500
 atgaccagct cacatgtgca gtgcgttgtt gggtcagact atattgatct ggcgatgtcc 1560
 gacagctgca tgtctcagcg tttgactgag caactgaacc aactatctt tactctccag 1620
 gcaactatct tgggtcttgt accttgcata ccatggtttg cgatggccac cggaaattac 1680
 aatggcattt cctaggaact agatcgcatg gccctcagc ggggggaggg aggaggtgtc 1740
 cttctcttct ttcctgtag tctttatcca acgcggctat agcaggaagg cctctctgtt 1800
 tggcaaacat gacacagtga tggggacatg aagcatacat accatcctga ttaggcagag 1860
 gacaagaaga agggggacag actaccatgg caaacggat tatcttcccg ggggactgct 1920
 aaagtgaac acacgagtct gcaagtgacc cgagatgggtt atttggccct aaatgtggtg 1980
 cccatacgt gagcaacctg ttggacatat ttttcaatac tgtctacagt aacctctgga 2040
 tggaagctat cgcagcccca ttttgttccc ctgttccaga gcagacttcc gctcaatggg 2100
 agtaacatta agccgtcagg cgtaacagaa atctcccgga cgccgtggcc ttgaagggat 2160
 gaggcgctg atgacggctg acatgtggga ttgttttcga aggcacaaat agggttgcct 2220
 atttgtcttg aacctaggta agtcaaaatc agacaggtga cttcctgtgc aatgttctgg 2280
 agtcataaat aacatagatt tgatcaaata cttcttcctc caagcagcct agtaatagtt 2340
 agtcggaggg ctctctccgg ttgtcagatt atctgatcaa ctggtggcca ttaggtatc 2400
 gtcaatacct ccagggcctg atgagagctt aggtgtgtcg ggccgaggaa agttccttta 2460
 ctctgtgcac aaggatcatc agttccagct tttctgggag cgatcaactt ggccaagatc 2520
 tacttctgt atagtacagg agaaatttat tatatacttc ttttaggctg gcgtggtgag 2580
 tgtaagcagt ataaatctta agtaagcgga gctgaggtcg ttggaggag gcagttttgt 2640
 gttcacaggc cctcaagtcc gtaccgccc accatagggc tgcaatagcc gccagagga 2700
 aggggtggcg ggggtgctggc atcacatcgt tttatcgga ggatgcagcg atcaatcgg 2760
 tatataaggc tgggcacaac ccgttgagtt tagtaggctg ttccgttgcc catctcaggc 2820

cagactagtt gagaacgggt gttgtgaacg ggtgttcccg tctcgcccg cgctgtgggc 2880
aaccgccccg gcctccattg tttgtcgtgt ttgcgcgaaa gaacctccat aatttcaaaa 2940
aaggagaaaa aggtgttaac tgtcgtaaaa aactgatttt gagccacaa catgggtaat 3000
gctcagagat tagttgcagc aggcgagagt gaagcaaggt tggtagtcac agcaactact 3060
gaacactaat tgtgcggaag ataggagtag acgctccggc ctcaagggtg gatgcaggga 3120
gattggatgc ggttctgcgg gactttcgcg gcgattttct aggcacctgc caagctgaac 3180
agactgctgc ttccctacata cgaggggtgta ataccacgtc ccccccagtc aatctgacct 3240
agttcgctt agtgggcgtg caccagtc tgcagggcat agaagcaggt acccatcgca 3300
caatatatac tgaaatcagc agaggcaagt tctgactttc gcgtgggtgc atcaagcgat 3360
gatattcaaa ttgctatggc ttgcgctgcg ctgcaccgaa ctgctctgac aaagcatctc 3420
aacaccagcc ttaacccctt ctcaacttgt cagcccatgt gttcaaagtt ggatagctct 3480
cttctaatac agcgcttttag tcaattcaga gctctctaag gttttctct gcaatacaat 3540
caaatctccc caggctccaa tcattcctta atgtccacat tatccttcat cttcttttgg 3600
cgcagagcat caaggatttc catatgtccc tttccagcg caaggcttc cgcagtgcgt 3660
ccaagcggat ccttaagata gatatcagcc ccagcctcaa tcaagaaaag cgccatctcc 3720
atgtatccct ctaccgcagc ctgatgaagg ggactccca tatcaccata agcctcagcg 3780
cctggcgggc cttgatccc aacctcgtca atatcagccc cccttaacag aagatacttg 3840
accatctcca ggtcctcatc aatcgccgc cttacaattg cattactccc cttcagcctt 3900
gccccatgcg cgagcagcaa atccaccagt tcgacgttgc cagtgtgaac cgcacacgcc 3960
aacgcgtca gatgtcctc gacaaggctg gcgttcggat tggccccgtg ctccaggcag 4020
aatcgaccc agtcgatctt attgtcggag gccattgttc cgagaatata gccgtaccag 4080
gggacaacaa agttgatgcg aaccaccttg tgcttaacca tcaagcggta cacggcgaag 4140
gagttgtgga caacaaccga cgtcatcatt tctcgcgtgg cttcttgccc gtgttcagg 4200
cagtaggctg cgacctgggt ggcgcgacag tctgtggcgg ccaggagcag atcctcgaga 4260
ggcgggggtg attctaactc tccggctgct tcgcgttgtt gctggaggaa agcctccagt 4320
gcctcacggc tgtttttgcg agcgatggcc cgtatctctt cgctgatgag gcgttcgttg 4380
tagtgcattg tggctgaatg gttgagatcg agattgacgg gataaaattt caatgaagga 4440

tggaaggtcg gtgtgtttta ctgatcttga agacaaatga gtcactgtta aatgggggaa 4500
 gtgttggttag ctacctagcc tacctaccta cttataggta gcgtagcggt ggtctggaaa 4560
 gacttggcgt cggtgaaac aaagacagtt gctcaaaca gatggtccaa ttgctggtat 4620
 ggatgagtta gcctaaagga gaatgtggtg ttcacacggt cctggggcat gtaatagtat 4680
 gttttgatat tacagagcat gaaacttttt attacctgag gtggaggagg aggagaggag 4740
 ctaaagtagc cccatctcgc ggggattggt ttttgaccct gcaggttgta cccaaccgc 4800
 accgagtga tccttagtag tatacttttt ttacctacta tagatcaaga gattaaaacc 4860
 ggctagggct aatatatagt aaaattccct ttcctcagt tacttattag tttgtcaatc 4920
 cgcaccgcaa cccgcagcgg gtcaccacac tgcagcagtg cgatgcggtg caggttgcaa 4980
 aatcttcagt ccacgctggt tgcaggttct aataggagaa tctgcacaga tttgcgggtc 5040
 acgtgcaggt tctgatgtct gtaatacaaa cctataatat ctatataata tataaaacat 5100
 agattacccc tgcttggttt cgatctatac acctggaaga aaaaagaaaa aggagatata 5160
 actattaggc tactaagcat tattgcttat ttatttataa ataattaatt tatacaagag 5220
 atctcataat atgtcatgtt ggtatctgct agatagctgc tgctggcata gtagtattat 5280
 gatattataa tattgcaata ttataggatt atagtactat agagtaaacc ttagggttgg 5340
 agactactcc ttaaacttat atagtttgct ttataagtct actagaatag tttag 5395

<210> 3050
 <211> 1908
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3050

taattaactc gtgttcgaaa taaataaata acaggagaga gattttttaa acaaaaaaca 60
 taccaaattg cgattataat taccaaatat taacgtcaaa cctcacgaaa agaggaggta 120
 gtaccaagag agtcttatgg acccagaac ataaactata ttaaaacata aaaaaggccc 180
 aaatatgtag aagaagaaa aaaaagcttt aaggaccac aaaagaagta gaataaatga 240
 gttccaaggt atgaactcaa taacaaaaa aaaacaagtt ttggtctggc aaaaatggg 300
 actatggtgt gaacagtaat atgctaggaa aaccagagta tatcaagctg gagatgagac 360
 aaaaacaagg tctttagaag aaatctatgc ttagggatta gtagcaaat acattcccta 420

ggagggcgga gggcaaaaat cgattaaagc ccatacaatg gaaagaggta tgctacacta 480
 aattgttata tagcacccaa ttgcaggcac ttaattgcc aacaggcaac acttcagttg 540
 gcccattaa tcttatttaa taaggggaac actaaatggg gggttttttt tggatggcct 600
 aatagaccat aaaaagtaac tttcggtcct tggttctgaa ttccttaaca actggccata 660
 gatacagagt tccttagacg acttagtcca tccacacccc ccccccggg cgctatcagc 720
 acctcattat tcccgccta gcatgcttcc attccttacc accatctcgg gtacgtaca 780
 cttacatccc atcgctatca ctccgcatcg tcttttattt attttttttc tgggtccttc 840
 ttgctttttg acttgggctg tgacttttgc tcttgcccc gactcgattt ctcttgctcg 900
 tgctttgacc gtccgaccgt tggttgcctt gctgacggcc tctgtgcctc cgtgccatag 960
 actaccttgc ctgcctgagc tccccgtcga tcgtcacccc tcttcgtgtg acctggggac 1020
 gcgaaagtat acattgccaa agaaaccgat cgatctcttc tcttcctcat cccttccgct 1080
 cttcagagac gctggacgaa accgcccagc tgcaatcggc acggagggtc tcccacttcc 1140
 ccgcccattc gccccctcag ctgcagctga ttgcctcttt gggaacctct tgggagcccc 1200
 agcttcgccc ttgctcgtec tgctcgccca acgagccagc caccctgttg tgttctacgt 1260
 gggcataacc atgttctcgt gactgtatga ttgtcgcatg cgatagaccg cctgtcgagc 1320
 atctgcgccc gcccaaccg cctacgcgag acgtcggagc tgctagcatg gaaatcgta 1380
 ccacggagga gaaatcaagg atcttcccc agtactccgg cccccgcct ccaatgcac 1440
 gcatccgccc cgcggaagcg ccgcatggct tgccaggggc cccgggcctg tacgatcagc 1500
 catggcgccc gtatcccat atgaaaacca ccatgccgaa ccacggcggg tcgcatcaa 1560
 tgctccgag cctccactat ccacgcatc caactacccc ccaatgcaca gtcgggagct 1620
 gccacagctc cttcggacg gtctttttag ccggcccgc agcctacctg tgcccgcagc 1680
 ccacgcaccc ccgagcccc ctacgcccga gcatgccaat taccaccca tgaacggtgc 1740
 catgaatggc gcaccaccg aggcgtcgcc cgtctctgcg cccgactacg ccagaactcg 1800
 catgtcgtcc ccacccagc agcagatcgc caacagcaa ggagatcccc cgcagccgca 1860
 gcaatcgctc ccaccgaatc gacatcggac ctatcttcca tcgcgata 1908

<210> 3051
 <211> 3377

<212> DNA
<213> Aspergillus nidulans
<400> 3051

ggcgttcttg cgacgagatt ggcgggtccaa gccgaggga actgagctca gcagtgactg 60
gtacgctagc gattcagaaa tgcggagtgc aaggttttat tggggaacga ggagtttgat 120
ggtagtgga ggctgtgaac tagacgggtg gaacgggtgt tggccgttgt gcgaaacaca 180
tgacaagctg gacttgaaac ggataccgcc gatctcaggg ccttgtcgcc tctttgtggg 240
tatgagactg ctgaccgctg agatcgctga gaccgctgag attgctgagg ttgctgaggt 300
tgctgagggt gctgaaaaac cgctgaagac ccctattcag gatgactaca aagtatgtag 360
tcgatggatg aatatatata attcttctcg ttttctcttt tccttttacc ccagggtggca 420
acgttggcta tgcacggct gtatgtcatt acctataccc gacgtccttc gccgcgattg 480
atctaaagg cttgtgctta tagcttgtgc ttatgaaggc tgatcacact ggagttgtac 540
cttgcaatgt ggggattaca atggaagata gagatggacc acggctccat ctttagcggg 600
acaactatgg aagaatgtcg taccacact gtcgggtcgc gcctgatgat cgggaaatat 660
cttcgtaatt agctgacggg cccaatgtac tcagagttga gagataatgt taggatgcat 720
ttccagttcg atcctatcat ttgcaggcag ctggatggct gtctgtcagc aaaggaggaa 780
tcacgcaatt tttcttggcg ttgagcaatt ccataagacc cataagccgt tgacagcgat 840
attcaatctg gcgagccccg ccaaattgct tattctgcta atgtgaatat aagatctcga 900
tccccgtaag gtgatttcgt cgggtcgtcg cttgggtcgcg tcgccgggtca tgttcatcca 960
tcgccgattg tcatcgaatt catcaggata ttgttactgt gatcaagatc gacagcacga 1020
atgtaaccac agtgatctag tccatcagcc cagttccctc ctgagttctc aattgcgacc 1080
cgatcaactc accgccgttg tcaagaacct gatgcagttc agttcccaac ctctgcgta 1140
taccgtcccc agcgcgatcg cactctgctg tttccagaac cgatgcgctc ccaggatcgc 1200
cgtcacgatg gccgcgcaat ggcacgtcac cgataacggg acgccgactt catggtatcc 1260
gaggcctttg cttgagccgg caaactgaag gcggaacagc tgggcatca ggacgccttg 1320
cattgcgagg atcacggagg tccgatgta cgcgagaaac gttcggtcga gagctggtgc 1380
gtcagaaatg ttagcattgc tcatcagcaa tcgatcttcg atcgagtttc caccggtctt 1440
tcttcaatct tcgatccatg ttgccgtct tttccctcac aacggcaggc cgagataaga 1500

gggggacaag gaaataccga aataatcccg attcttcttc tgcgccactg tcaagaccac 1560
 atgcctcgtc cagaaccgtt gaatgcgccc gaggagcccc tcgcgtcgtg gccgctcgt 1620
 ctgactggtc gaggtgcgcy ataccgtccg ccgcgtgggtg atgcggtatt ctccagagga 1680
 gatcgacacg cctgaatcgt cgtcctgctg agtttcgac tcgtgcaact ccaggttgtc 1740
 tgggtccagg tgggcttcgt tgcgcggctg cggtcgcggt cgcaggctgg cgctggtgtt 1800
 ggtgtcgggtg tgggacgacc gtgagtcagg tctcggctct ggccccatgg ggtcggcgac 1860
 agcttggggg cgagaaggaa ggtggtctgc cattatggat gaattgaccg atactcacat 1920
 atttactgct gatgcagcat gaacagaatc agatgggcga agaacctgga agagaaatcg 1980
 ggaatccgtc agccggatgc ggggtctggtc cagatgcgga ccgttggagt tggggagtga 2040
 gatcattggc ccgcgaacaa gtatagctct ctatcgggta tttaatgatc gagttgtgaa 2100
 cagaaggcat caccttcaac acaccaatat tcaaaccaac aatttcgtta agacgcccg 2160
 aggtcccgac cattgcctat ccttgagccc ttgacgcaga aaacctgttt tctcatctgg 2220
 cagtacggct gtcgttagga ggacgggcag cactgattca tgctttttaa ggggaaaatg 2280
 ttttaaggaa caatgtacga gcgggaagat gaaatctgat atctcgtcgt ccagatgtca 2340
 tacctcgtcc atgaagcggc tccccgggta aagcgcgcaa ctcatatgag gcaccatata 2400
 gcagaacaga gtccagcatc agttgccagt taaaatgtat cagtaggtta ccttgtttga 2460
 gacacatttg aggtctacta caatgggagc tgtgctcata cttgtcggcc gcacactgat 2520
 agagccatcg cacggtatag cacaacacca acagtatatt ggccgggataa aaatgggatg 2580
 tccaatggca acggcgctta agtagctgta gtagtattgc aaatagagag gttggatgaa 2640
 gcaaaactata aagtgaccat atctctgtct ttaagctggg aagactgtct gtcagtagcg 2700
 gagcctgccg ggggggtcag catacaaaga tcttggtatt cgtgctctat agccagtatt 2760
 cagcccagta caactcctca ttgttttgtt cttttcattt ctttctttct ttctttcttt 2820
 ctttttattt ctacttttat tttccctgcy taaacggcat tcaggatgat aatcctctgt 2880
 atacacaagg agatctgtct aaagccactt gcattgtgga cagttctcac cttccaccc 2940
 ttgtccagag acaacagtta tgctctgtaa catcaagcct ttgagaaaat gggatacttc 3000
 aggtcagacc actgtcctga aagccgatgt cggatggccc catgcgctca gcggtatggc 3060
 cgcgatagag atcatggcgc cttccagacc tatgaagata gtctcctcat tcgctagatg 3120

gctatcagat tcatctctcg actaaggaac gcggaacacg cttcaaatag atgcaagcag 3180
atgcccgatc ccggtatact cggaacgccca cccaaagttt ttaggcccgt tgccggcact 3240
gtcgagttta acacaacacg ttaacaaagg cttggagaaa tcatcggagc tgactcgagc 3300
ggcaaccgca tagtaatgat agaaccttag ggaagcttag acaattcccg gtccagtaaa 3360
gacgcaccgg atgggagc 3377

<210> 3052
<211> 1182
<212> DNA
<213> *Aspergillus nidulans*

<400> 3052

cccaatatcg ttatagccga gcacaaccct tgaacgggct cggcaacgta ctttgttatt 60
caagaatagg aacagtcgca aaccctgaga aggctgttca acttcaatac caagctgtta 120
gatcaatact aggaaaccat cctgtcctgg catgatatct gaacaaccct aaaactgtgc 180
ttggcaaaga tacacaagaa cagaaaaagc tgctgacctc gaagtgtcac tgatgctgca 240
cgaaagctct taaccaacgc cggaatttta tcttgactgg ccattacatc taataccctt 300
gaacgcagga tataagtctg gtttgtaaca gcttatgggc atatgacagg acaggaggaa 360
tggetgacct tatggagcca tttccaatac caatatgctt tacgccagct aaactctttg 420
cttactactc ggatacggct ggccaaacag tacttcagca tcttgctacc atttcaagtg 480
gcagagctat gaaactgcct gggcctcaat tgtttgctta ggcgccttgc tatggtatca 540
agacttggtc gaacccataa cagttataag taaactgggt ataaccagg atttaccacg 600
tttccttaca tttcaacgga gctcatatct tggcggattg ggggtgggtcg gagcgggatt 660
cagggggcgg gattaacaag actaggtgta tctgctccgt tatccagttc tatattccgg 720
agcctgtgcc ttgttatatg gatcgggtggg tggacaactc aaaccagagg agtctggcag 780
atccaaacag gtcaagggtt ggggaaggta tataaatatt ttgctatata agcagcactg 840
ctaattcaat atagttatct atggcttctt gatatgtcag tgacgaatta cccgtagaaa 900
agtaacagcc gcaatctatt caataggatg gccagaaatt ggatatgggt agagagatga 960
aaatagtcgt taaaattcac cgtcacacga gtcaactcga gctgggtttac tatatcgaaa 1020
cggcctgcaa cctggaagtc tcccggcact ttgcattgaa ctacatgcca gatgttagag 1080

ctgattggca aactactgta gcgagctata acctgcttgg aaattgctgt acgcctttgg 1140
gcgcgaaaca ccagagcatc ttctggcaac gcttagcacg tg 1182

<210> 3053
<211> 1169
<212> DNA
<213> *Aspergillus nidulans*

<400> 3053

cggcggtcca tgtcttttct gagaggcgat aatccacccc ggaacacctt gcggcacaca 60
agaagtcagg atgtgtttgt gcagctggct cgctcgcaat accagcagga cctcatgagc 120
agccctgatt ccacagcttg gggaccattg accatggcga aagtcaggcg agagcataag 180
ccgttttagaa aaacatgccg gggcacaagc gctctcgacg gtacatccgt cgcagaggcg 240
ccttttgaag cgctaaaggg ccctcagtc cttggaaaag ccagagcctt ttcgaccacc 300
atcaagaaag gcatcaaacg agttttgggt ctttcagga atgtgtctga gcagggaaag 360
gtgcatgcat tcccatcatc ttcccgtaaa ttcgctgagt caccttcgac tgcgggtgat 420
aaccgagacc gattgcccgt gacggctgtg cagccatgaa cgaacatatt tacgaatcag 480
cagagatccg gcagccaacg atacggagaa tgcagagctc tgctagtctg gccacaagtc 540
gctctcgggt gacgagttgg gcggattcca ctgctgctaa tacaattgca acccccagga 600
caagtgccca gcaacgcctt tccattgtgt ctgaacaaga gaagcttgtg cgtcctgatg 660
tgccaccagt taccacagac tccattgcaa gcaacgcagt tgatagtcac cgtttatttt 720
ccgccctgat gaaacgaatc ggaggaacaa atgctcaagc ttcggaagac aagattgtca 780
tcggacaagt gaaggagcat cgggtaattc ctactcaagg gtcgttgact tcccaccaca 840
gcaaacgtac catccgcaa gtttccagtg agatctctgt caactctcca agatcattcg 900
ctactgcaaa tggcggccca attacgcctt atgagcagcc acaggtacat ggcgcatctt 960
gtgcacacag tgcaggtctc acaactaaag catatcaaga gagcaacaag accgctgagg 1020
gtgacatttc acgagccgag tcccgctcaa gcgtttactc tcgatcgacg agcgggctct 1080
ccccaagct caaagctgcc cgtgattcac cagattccgc ggaagaacca ggggtagcaa 1140
cgatctatgc ctctgaaagg actgcgtac 1169

<210> 3054
 <211> 2703
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3054

gctggggcat agtcaatat cacagttcta tttatgtaga attttattca gttacagtta 60
 ctatggcagc taaccaacgg ttgtccagtc aggctcctac tatacaggat acagagaaca 120
 gagtagctag aaaggtcaat atgctgactc atcgccacgc aaccagcta ggccagagat 180
 cagatcagcc tcggttctcc gcaaacccca ggcagctcct caccgaatc ggatccataa 240
 agccacgcgc actgcttata aggagtgcct gtctttgtct ttcctatttc ttcctctaa 300
 ccaccatcgc tccttttctc ttgcactcac ttccgttctt aaccatcct aacccaaac 360
 ataagcaaaa tggccaccac cgcccgtag cgtctccaag cgctcagcca gcaactagtc 420
 gaaggaatac ccgacgcagg cactttcgag gacatcccca aaattcgaca ggttgcgga 480
 gactcagttg ggccgtatgt gtcacagtta tcttgctctt tatatgcatg cgggtatggt 540
 agagcgtcaa actaaccgag atgtatgtat gtagtcgagt gaaggacaaa gtcgccatta 600
 tcaactgtac tccatctact taccatgat aaagatatta ttactaaaga ataaaaagga 660
 acaaactctc ccttgggcat tgggcgcgca acagcgcacc aattcgcgcg caacggtgcg 720
 aaggccatct atatctgca cttcacgagc acacaccttc ccaccacgc ccgggaaatc 780
 aagtccctct acccctctgt cgacgtgcac acgcgcacct ttgacgcagc agatgaagct 840
 gcgctgaagg ctgtgattga cgaggccatc cagaactacg ggcggtcga catctttttc 900
 gccaatgctg gaatctcagg ctctaacgtt cccttcacgg aagtgcagg tgagcaattc 960
 gcggagacgc tgcggatcaa cacagttggt gtgttttttag ccgcaaagca tgctagtctg 1020
 gcaatgagga agactagtcc cgagaagaaa taccctggag gcagtattat agctacagcg 1080
 agtgtggcgg ggttgaggtc gaatgcgggg gcgacggatt acagcgcgag caaggcggct 1140
 gttgtatcta ttgcacaaac tgtggctttc caattggctg ggacggggat ccgattaac 1200
 gcgatctgcc ccggggtggt agagacgggg atgacagctg cgatgtacga ggctgcgcgg 1260
 gcgaggggga cggagcggaa gattgggcaa ctgaatccac tgcagcgcgg tgccgtggca 1320
 gatgagattg cacgggttgc gctgttcttg ggaagcgatg agagtagtta cgtgaacggg 1380
 caggcgtggg cggtttgcgg tggactcagt gctggtcac ctgtgggtcc cggaagttg 1440

gcttgattgc tacgccgaat gtatatacat cttcaggctg aaattgaaca ttctcatgtt 1500
ttactttag acaagtatca attaactaaa tccaccagct acggtgagcg aacacagagt 1560
ctgcgcttct tgagcacagc ggcaactttc aaagcagctc cgttgcgaag aatatcgaca 1620
aagggaaatcg ggggagattg atcggaaata gtgggagaga gagagagagg ctgcgccggt 1680
atatggaggc cgcgggctat ctatgtaaag gcagcaaaag acgccctaga acgctacgtt 1740
ctagatgaaa gaaaaaccgc ccgacagcgg gcgcgaaggg tggggaatca agctaggccg 1800
tcaaccggac ggccttcaac gaaaagtga atagagaaa gaaaaatgct cctccagaaa 1860
gaaacaaagg cgtccagaaa gtttgtggca gtggtgagtg aatatccaag acggaaacag 1920
aaagatcaaa acacagaaag cgccaagatt gttcacaact cgctctagat ctgacaatat 1980
tgtgtacgga gcagatgtcg tgtcgaagtc gtcgaaatca aacgtcatcg tctgtggatg 2040
aaaggtctct acgcgagcat gcgaggggtt gtccgcataa ggtcctcggt ggaatgcttg 2100
gagagagtcc cagcttcgct tgggttatcg agaccttcg tttcatgggc gtgctcgta 2160
tcgtcctoga cgatccgggt cgggatctcc ccgggcccat actgctgact tgaccttct 2220
gggaatgttg agctgctgat catcgacatt gaggtgcttg accggttggt gacaagatct 2280
ggcgtaggag gaacgcttgt ccggccatcc ggggtggagg tgctgacctc actgtcacc 2340
atctcactgc cctcgcgagg ggtcatcatg ccgcgcggct caagattggc tttgctcggc 2400
atggcatcgc cactctctgc atcctgggca agttgcagac cctcgacagc agcggcacac 2460
tgctcgctga tgctgaggat aatctccgag atggcatccg tcttgctcgc taagtagcga 2520
tcggcaacgt cagttacgct gagacgcga agacggcggt ctggttgacc aatgttcagc 2580
aggtgttgct ctaggtccgg gttgatactc gacacaccgt ttgaagattc gtttgtcttc 2640
acgtccttct tcacgttctt atccttgacg gattctgcgc tctcctgggc ctgttcctcg 2700
gcg 2703

<210> 3055
<211> 801
<212> DNA
<213> *Aspergillus nidulans*
<400> 3055

atgggtgaga cccaatctta agatccactg ccttcgcgcc caagatttgc tgcagggcat 60

cgaaagcctc agcggtgct tctcgacat catcatcggt gtcaaccaat gccacacgga 120
 caatggatat gagaatcttc tcgtagtcct cgagggcatc tggggaggaa gatgcgatga 180
 tttccttgag cgcgatacag ataccttgct tgacatccac atcgggggag gtttgagagac 240
 catcttcaag agtaggcagc aaagtggcga gaacagactc tccggctttc ttgatgagat 300
 ctccaagagc attgcttgca atgacctttt gctccatggt ggaagaacca agacggcgaa 360
 tgatgagctg ggacaagggtg gggaccatct ctttgagtgt tcttgagagac gcgacaagcg 420
 acttccatac acccattgct gcagtcttga cgagaccgga agtatcgag cggcagataa 480
 acagcgcgga caagaccttg tctctctct cctctccaag aacctcgagc agtgactgtc 540
 cagcctgagc ggcttcttca tctctctctt cggcctcggt cttggccgtg atgcctgtaa 600
 tactgaagag cagatcacca accaactcga cggaactcaa cctgatacgg tagctatcat 660
 ccgcaagtcc gcgctcaagt tcaggaagca gaagatcgat tgccttgagc gagaagttct 720
 tgaccagcat gcgaccggcg cgatacgaag tctcacgaat cgtgtcgaca tcgtcagcca 780
 gaccagccaa gataggttgg a 801

<210> 3056
 <211> 761
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3056
 ggaccatgct tattacagt acgcgacaag tttttgtcgc ttcgcaggat atagcggcat 60
 atgctggagc attggaattg caaaagaggg catggactgc tatgaaggcc ctatctggca 120
 atttaactaa ctagctaact aacgtaattt cacagtcgag ctgaacacac aagcgagctg 180
 aacactaccc tgtagatacc caaaaacacg tcttcttaat tcagcgagcc actatggccc 240
 cggcacgctc tcaaaaatgt caagattcta ctcagcaata aggtaggctc cagcttgtct 300
 taaaagctat aaacgagaca aagcttctct cgattcagt aagctacacg cgtttactat 360
 gtgcccctct ccgcgctgca cagtcgcac cggggcaccg catggcgctg cttttctccc 420
 tatctctatt ctgaaccac gctttgttct ccagtgtact cgtcgaatca gtgtgttgca 480
 actctcgatg taccatgatg atctcactct tatacgcgtg gcttcaaaag gaagacatct 540
 taattttttc aatcactatg ctcacttttg attctcttgg tcgttatcat gaaattaaga 600

gataattaat ggatatgtct ggaagaaaca aatctacaca gtcgaacttg tcaaaagtaa 660
 ctctcaggggt caagctctac ggacattgaa gaaaaccaga ttctatattc tctatcatac 720
 cttggccttag aggcgccttg tgtagatatt ttgatttaat t 761

<210> 3057
 <211> 2734
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3057
 ccaccaactg gcgagcatca tactacctag cgcacgtagt accgtcaaac agcgaagcga 60
 tcgacatcct gaacgacatc atagccagac ttaagacaga tgagagatgg atgttgaagc 120
 taaacaacgt cggggcgctc gcagagatgc tatttgaccg cggccagcga tattgggatg 180
 cggagcagtt tgatccggca attgaatctt tcacggaatc ggtaaagggtt gataatgcat 240
 gcttcaagcg gatcttgact atcattgagc aatactatga taggcggctc tggaaagata 300
 tcttgagact gctaaagacc gttcaagccg gtgctgtctc tgacactatt accggctctc 360
 gtgagagaaa aggcaactct catctgtcca ggatgctcgt cgaccttgcc tcggaagaag 420
 cattccacag catcattctc catacagccg tcgaaacggg acaattcgat ttcacgaga 480
 ccgtctacga agacgccatc aaactctcag cccaaatgga ggcttacaca agcctcttct 540
 acattaggta ccactacgca aacgagattt ttcaacagga cggaacagac agcgaagagc 600
 gcgctatagt tctgtgggaa acggcgctga aagaagacct ccctcgctca ttcctggaca 660
 tcgactacgt cctgcctagt ttgacactga aacttgcgcc aacctatctg tctcgcgcac 720
 gatctgccga gccgaattca gacttagcgc aggaatattt acaccgtata gcctcaatca 780
 caccggacga aggctcggcg tcgtcagcgt cagcgtccca aagcaacctg attctcccag 840
 ccaagctcta tctcgcgcgg tactacgtcg tcacggggaa taaggaaaaa gctaagcaaa 900
 tcgtgcggag tgtggtaaag ctgcgcttgg agatgctatc tgatgatgac gctgataatg 960
 attatctcgc ttattggagg ctactgcttg tgtttttgcc actggatgat gacgcgaatg 1020
 cccttgttgt tgtggcaatg gttgttctgg cgagtcgggc tgctgctttt gggaatgtta 1080
 atgcgggctc tggcccgggg atttcaatgc cgctgattga cgagccgacg aggactacga 1140
 acggaaaaga ccataacagc aagaaagaac ggaaagagca aagtccccgc agtcgacctg 1200

cagtaaacac tgctagccct agcatcagtc taaaaacagg ccctgggacg ccagaacca 1260
ggcgtccagg tacaccgaat agtttaccgc gcacgcccga gcttaaacct gtctcgcttg 1320
cggattcgca ctgcactca ctctcagagc cagcttcagc acctgcgtca gcaaaggggg 1380
acgacgtaga cgacagtggg gaagacccat gctccgtccc tgttttcgcc atctgcgacg 1440
gcagctgcgg gcgctactgg caaggtgcga gtgagatgtg gtggtgcaag gactgcatta 1500
atttaacctt tgacaaggag tgttttgagc agttgaggag tgggacccta ccgttgaagg 1560
tttgtgatag gagccatgca tttttggagg tgccgaagta tgatagtcac ggtcctgatg 1620
gagatgagta tgggtgtgccg aaggggtttg taccgtatat ggggaaggct atttcgttag 1680
aagagtggaa gaaggcaatt gtaagggtt atatagagta gaccagagtt gactattagt 1740
cagttgtata tacactagct ttttggcgct ttgcataat acgaggcaag ttaagtgtaa 1800
aggtgtcttt gtagaaacta gggcaacgta atactttctg aaaatgatgg cttatgtgct 1860
agctaggcgg gttatcctca ttatctgagc atagtgtctg gctgccgacg acccaagaca 1920
cctacgaacc tctcaactcg atttcgattc atagtgaat acgctcatgc cagttcatct 1980
ccactttcag ccaaaccag aaaaatcgaa gcacataggt atacgcctta ttctccatcg 2040
cattccacat aaacgaaaca tcacgcccc ttgcacccc cattgctttc cgaaacaacc 2100
tcctcttctc gaatgtcgcg gacaataagc tgcgcttcac aaaattcagg gctttcataa 2160
gctctgtcca gccaagccag catattcttc caaggtatgg gtaaaatata ctctgcatta 2220
agctcctccc tgatgaatag caattccacc cacgatctaa ttcttgatc tctgtgattg 2280
agattgggac gccaagtggc ttgggggaca ggacatacgc acgacagcgg gaggatacga 2340
aggatgggaa agatgcagag tctaaacctg cgttcttgct tccggtagt ttgggttcgg 2400
aagagatgag gtcgaaggat ttagtgtgta gcggttagc gaggcagagt gctgagatat 2460
tgtcgcgcca ggcgggccct aaaacaaaat tcatttaata ctcttttctc gaatcaatag 2520
aaggaatgcg tagaagagac gaaaggacca catacaattc cttaccagat acctaaccgc 2580
accaagtccc ccttctgaag caccaataat ttcaatttcc gcatccctcc tcacaagcct 2640
tccacgagct gcgagaattc ctcaaaaaca gagttaacat gttcctgcca atttctattc 2700
tcagggatct tgctctccta gtctcgccag agga 2734

<210> 3058
 <211> 861
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3058

```
cgaaaatggt cctcgacatg tttctgtacc ttgctctgt gttattgccg ttatctctgt 60
cgcaggcact tccttcaccc ggcagcgttg ataaaccatg ccgatactta ccaggcgata 120
ccgactggcc tactgaagct gagtggcttc aactcaatac aacagtgggt ggccgattga 180
tcaagacgat tccgttgggc tcgccctgtc acgggttcag ctaccgtgcc gccgaatgtg 240
aacatctgca ggcagagtgg acaaaccag agattcagta agccgctgct cgaccttgct 300
cacagtcgct attcttgctt gtttaaggat ttgacctga acgcagtgcc gattcccat 360
cctcttttgg agctccgctt ttccaagatc aggcgtgcga tccatttacc aacagatcga 420
gtcgtgtga gcttggcaac tattatgtat acgccattaa tgtcaccagc gcagcagacg 480
tcgctgctgg acttgctttc gcccaggaca agatgatccg acttgctgtc aagaacaccg 540
gtcatgagta aagtgcctct tcgccatctg gacattgctt gctcactgtt aatccccctt 600
tttttccagt ctactagggc gatcatccgg caaggagca ctgggcctgt ggacgcataa 660
tcttcgctcg atctcgatac tcgactacaa cagcagcctg tacacgggca aggccatgaa 720
ggtagggagt ggcattcagg tgttcgacgc ctattcagcc gccaccagg ccggacttcg 780
cgtggctgga ggtacctgct tgaccattgg actggcaggc gggtacacac agggaggcgg 840
acactcgatg ctctcgacag g 861
```

<210> 3059
 <211> 813
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3059

```
atgtacgtgg gaaataggaa attccttacc acatccatag aactgataag gcctgcaccg 60
tggttaaact aatacggccc tcttccttgt caagtaatct ttgggttcc gtgtaaaagt 120
tcgttcgcag atcagataga ttgtcggaag agtaagcctg acataaatga gtgtctgaaa 180
cacgggatga cagtcaaaca gagatcaaac atacacatgc atcagatagt atgatgttca 240
ccaggagcgg cgagcaatac gatgctgaaa gggatccaga ttgcataatc cggatgaaga 300
```

gatcgcgatac gatgaagttg cagatcggat gtaccacagt aaaccaggaa gaaatcagcc 360
tcgagacaag atcgtcgtcg tctataatgg aggtccaggg tcgcgaggg acagagaagc 420
gtggagcgtc agaagacttc ctggcgtcaa gaatatggcg ctgaggcagt tcaacttcca 480
agagctctgg tgtctgcgga aggttcggct gttgctcgat atagaagcga atttctgcag 540
gagaggcatg gctgcggatg aggttcaaaa gagggattgt gctgcggttg ctactctcgc 600
gaaagaattc gaggaggcgg accagtagat cttccttata ttccaacttg tcaatcttgc 660
gcttgaggac tccacgacgg cgtttgtcgg cggtttcgtc gagggtagat tcgaggcggc 720
ttttcaggca gttggcgagc ggaggagctc cggtacacta tcaacatata tcaggcagtg 780
taaaagcggg gttaagcact agataccttg agc 813

<210> 3060
<211> 518
<212> DNA
<213> *Aspergillus nidulans*

<400> 3060
taaccaccat gagcgccgtg aacgtccttg ggtgtctcag taacgtcgaa gggaacatgg 60
ggtacgctgc gaaaaacttt tcatatacga aaaacaggat cagcagcgcg atcccaagcg 120
tcaggaaggc aatgactttt gctcgttcc agggatactg ctgccctccc cagttcagcg 180
atataagaag gaaaaccagg ccagcagtcg tgattagccc gccgatggag tcaatgcgtt 240
tcactttttc gatcttgctt aagccggccg tgttcgtacg gggaggtggg ttataaaacc 300
accagatcat cccagctgtc agaagattcc agatcgctac catacacgca cagtaccgcc 360
agttgtgttg cgcgatcaat gcgccgtaga gacttcccgg cgcaagggg aggaagctcg 420
ctaccacggc tgcaatgtag tagcctctgt accgggtagg gacaatctcg gcgattgcgc 480
aatggccatg agttctgcac tgcgattcaa accattga 518

<210> 3061
<211> 1762
<212> DNA
<213> *Aspergillus nidulans*

<400> 3061
cctcaagggc gcatcgcggc attctcgttg acagtcacca aatccaacga agcgccctca 60

cgcttggtcga agtagatctt gttgccctgg tgaacgatga cgatatccca agagtacacg 120
 ctgcgaggag cacacatgag catggagagg atatcgagg tagcgaagat ggtggcttgg 180
 ttcttctcgg ccaattcctg gataacggga tcctgcgacg tggtgacgtt gtacgcagcg 240
 cggtcgagag cctgcagtcg gcgctcggcg ttcttgacag gggccttgtc gtaggaacgg 300
 tcgtagtagt agaggaatcc gtacgtgtcg acatcctcgc cctcgggtgc ctgtaggttc 360
 aacttggaca agcggttgaa gtcaacctcc tcgagcatag accaatcagg gcgaatgttg 420
 actgaaggct cgcgagtcct ctgcggctta tcgtagtctt tccatccgaa gcgacgaccc 480
 cggttgccgc gggcgccacg gttgtcgtag tagcggtcac caccttggcc acgaccagca 540
 ccaacacgct ggaagccagc acggccgcct ctctggcccg cgccgccgcg ctgggcacgg 600
 tcacggaaga cggtgccacc gccccggcca aagggtgcgct tagcgggaagt gcgagtgttg 660
 tcaaccacgg agaaagtaga ttctgtcttcg gcaacttgaa cggcgaagag gctagaagag 720
 ccagctgcat atacttggtg atctggatga cgatatctgt tagatttgtc ctgtaagcga 780
 tgggtggttg gtcatttcca tacctctgta gttgcggttg tatgcctgac gaccgccacg 840
 gtcacggtct ttggagtcag cagtccaatc agccatgcgg cctagcttgt cacccttggg 900
 gaaaggagcg tagggcacgc catcaagcat gttgtccgcc taggtgacag gacccaggt 960
 gtcctccgcg gggagggccg caacaatatc tgcgatggag atcggggcca tgatgtcaaa 1020
 aaataaaact acaagtaa ataaaacaacg ttgacctgaa tgtcacaac aagcccctca 1080
 gaaaccgagg tagccttatg agatctgggg acggtaagct tgcaggcggc gggatattgg 1140
 gaaccagag aaaggcgatt ttttgtgtcg cgagtgttac tgtggctggt ggacttggca 1200
 ccgccctatg gagcagtaca tgcctagcca catttatgcc tcaggtatca aactgtata 1260
 cccaaacggt acgtgtttat agtcgttgca ttccgcactc tccttggtga caattcaact 1320
 ctgactgcac agagaaaaga gttccctct gagacctga tacgaacgtc actcggctat 1380
 ggcagcctca tacattcatg acatatccga acccttgagt ctgtgttgcc gtccctaaac 1440
 cccatcgtcg acccaggat tttgtaccct ggtcaatcgc ctgactctgc tgataccaga 1500
 tacatgtatg cttcattacg taattgacta ttttcttagg gagccgaaaa tcctcttggg 1560
 cgaatacctg aatgaagaa tccatgacgc cacttttttc aggtgcgaag ccgcctatgt 1620
 gccagaaatt acaatttaac cattgcccac cttgcaatat gggtatgata agaaatgttg 1680

cctacccact gcacaccggt ggtctaagcc cttatttttt tttttttggg ggggggggttt 1740
 ttttttcccg gctttttatt ga 1762

<210> 3062
 <211> 1128
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3062

ctggggctcc aatatttcag gttcggggccc catggccttc cagggaacgt tgaccatgca 60
 cccaatcgca ccttcagcct tagcgagatg actccctttg gcgcgcggat gatgtctgag 120
 gtctggacgt gcccggaaca tacctccttc acttcttttag atccgggtact ctatgcgaat 180
 cccctcctaa agtctgctgg tgccgggtact tctaagtaca tccgctttct cttgaacggc 240
 gcacctcttc ctctgaaggc cctagtctggc tgtgagcacg cggtgaatgg cttttgtcct 300
 ctggaagggt tcctgagcgg agttccgact ctgaaggagc gcgcgcagta ccagagggct 360
 tgcttcggcg agtaccctac tggcgaacag gttggtgatg gtgttcctcc tccggcttaa 420
 gactctcatc agcagctgtt cctattcttc tttcttggga gggggattgg aagtgtctct 480
 gaaagagtca gatattttat cttgggggtc tattcaagcg agtagcttgc ttggccatct 540
 ccagagtcgt tattgagacc tacccaaaaa tgtatgataa gctagatttg ttgcaaatca 600
 tacttctcac tggaggccct ttcctcacta ttccttcaac taaaagtttc catcggggca 660
 ccgcgcttgc ccggctagta ggccctatc acctaagtac actattttac tcggactgag 720
 acatctcatg cagtacttcc tgtactatat taccttctgc tcccttcgcg cccaccacga 780
 catgagggcc ggtgaaagta acgcatggta ggggcgcttc ctgctcgcta aaaagggtta 840
 gcatacagat agagcctgtg tgggagcgga gctctcatgc tggacacctg cagatgatcg 900
 gctataacat gctctcctgt aggaacggct gcttgcaagc gctcagctat aatataagat 960
 gctggtgcct gatggacaaa cccgaaggga atccatgtgt tgtacgtaca tagcttttga 1020
 aaaaatcact aggacagaca tgagcatgta cgctacagcc taggatttgc tctgggatca 1080
 tgcctggcgc ggtcggatct agacacatgt acacgatacg ctggatct 1128

<210> 3063
 <211> 883

<212> DNA
<213> Aspergillus nidulans

<400> 3063

tgtttataat ggggtgccccg aatatactga agctttggga gaactgtcta aaggctctgt 60
tttttagggct ttttttttct agattaagta agatgctgtg gtgctgtata cataacgtaa 120
atcataagta cgtcacatcc tcacccttgt tgtgttctca aatacctctt acgctagtag 180
acaacttcog tgctggcaac aacgttaggc gaggattcaa ccatcactat ccgtgtacaa 240
tctgtaaaact ggccacttgt aactccgcag gatctctgtc atgtgtgttt tgtgtggcta 300
attcatatct ctccctgctt ttatctggac ccgactctgc taggccactc ttagttggga 360
gctcaaatac acggcgctcc gtagcctcca tctcaacagg cgaatcagtc ttgtttgcag 420
actcggaat tggagcacta tctaactctg atcggccagt gtttcctcct tttgctgacc 480
cgcggtaacg acggaggaag atcattgtc caaggatgac taaaaggact ccgagggcaa 540
cgccaattcc aatcccagcc ttcgcacctg ttgtaaggct gtttcactt cggttgcttg 600
ttgggagagg cgagtatatg gtgacagttg cttggggggg gggatctcca tctgtggacg 660
tgtctgacgt agtgctgctg gtgcctgtcg atgtcgtata tggcttcggg gtgccggtaa 720
ttgttatagt ggtgggtgga gtaccggcaa gtatctcaat agtggttgtt gagggtatgt 780
ggtttcagtg gtggacgaag actctccttg tcggagtggg gagtggtttc ggtctcgact 840
cggctggtgt ttcgggcgcac ggttgactga acacgtgtca gat 883

<210> 3064
<211> 994
<212> DNA
<213> Aspergillus nidulans

<400> 3064

gcgcttttcg actgggttgc gctaacaacc tcatcagcaa tgggctcaag gctgatagat 60
ttggtggtag catcgggaaa ggatttctgt tcagaacacg aattcggcgt gaattgcagc 120
acgctcacat tcaagcgaga tggcgacgac ggaataactaa ccctaggtgt tgggtgtaatg 180
tcgccgggag tcggtgtgtt atcgtaaca acaggacgga caaaatgagg ctctttcggc 240
ccaggagcgg cacgcttgca tgccttcaca ggtgcagcaa tctcagcctt ttcagattca 300
ggatctggaa gtgtcaaaga ctgctgattc tgaggctttc ccagctttgg ctcgcaacgc 360

tgtcggagcc tagcctctag aacatcttta cattcagtca gcttgcacaa aaatgtctta 420
 gacaaatgtg tttgttgtaa aagctggcag acaatatcaa tttcacgcct gtactcatcg 480
 actgactcct catcctcggt atcagtagta gcttcaagaa cgtccaaatc actcgtcatt 540
 tgttgtttcg gatgtgagaa ccttcccaag tcaagtcttc tcttagcgac tgctagagtc 600
 gacgattgag agattttctgg ttcgagggat tgcgtgaagt ccagtccttc taattcttgt 660
 aacgctggac tcattgcagc cgcattctca gattccactg gactgtccaa gtcgacaagt 720
 gtaccgacga ctctttgggg acgcgatgcg ggagtcgagt ccatgggagt tgccacagat 780
 tcctgtgtgt ttggctctag cttctccct gtcttcgctt gaccggctgt gtttattgag 840
 gctgttggtg gcgtctctct aggtgactcc gtgctacca agcctgcacc cagatcgtga 900
 ttagttgttc cgaatttatc ctccactttg tctcaggag tcatggaaat tgtcagctgg 960
 gttgtgactt tctgctcttt gggctttaca atgt 994

<210> 3065
 <211> 1528
 <212> DNA
 <213> *Aspergillus nidulans*
 <223> unsure at all n locations
 <400> 3065

gacttttggg ggaattcctg gtcaataatt ccaaccattt tttgaagcat agtttcattc 60
 cctccttggc catcagcagt tatcatcttg ccattaaatt ccataacgca aggaaccccc 120
 ccagagcaca ttctttaaca tgggccagga aactcatttc tagataccct tttttagcag 180
 agttctcctg actcaaatgc tttggtagag cattttttcca caataacatg agctgagaga 240
 gatggatctt gacaaagcta gggcccaatg gcatcagccc tccgatcagg atccatgcca 300
 cctgaatttg cgtgctggca gcacgcagtt cggcgctgct gcttgttttc agaaggtcgg 360
 tagcttgagt gaacacacga gagtagatat caacagaacc ataaagtggc tgcaaccgag 420
 atgtacttaa catcgccgac aagccattag catagccgac acaacgccgc ggagactgtc 480
 gtggggtaga tagctgcca acctcgcggt tgagactatt cagacagata gtgacgcatg 540
 acaatagctg gactggacag gcaaggacaa agatacggag acagtgtgca gcgtgaatct 600
 gcacagtata gctaggggtga gaaagaactt gaagcagagc atcacggcaa ctttcggcaa 660

gtgaacccaaa ggcggagccg agtgaagaaa ctagagagga caaggcattg agggcattga 720
 tcagagtgtgta cttgctaggg tcacggcggtt cctgaacaac ttgggggatag tccttgagca 780
 catcgtttat aagccacttg gctgccgtaa ggcgactgtt ctcacggagc gagtcgagc 840
 cgacgggtttc ctcgagaata cttccaacaa ctttcctcgt cataagcagt cggaaccggt 900
 tgtttggttat tggtgggtgg ttcagaagat cgaacagtag gtgatttgcg atctgggtcat 960
 accgctcttc cacaagcttc tcgccccaaa tccgtagaac gtactttgta caaaccgcg 1020
 atccccgctt gagctcggta gaaaagtgtg cttcaaagta ttggtgcgat aggtgcttca 1080
 agagacaggg aggtaaaaag tttaaccgng cttcactttt ttggagcgag ggatttgga 1140
 tttaacctaa tcttattctt tcgggcttgg gcaaggcttt ttgatgcctt ttgcttttgg 1200
 gctcgagggg cataattgaa aacttacatg tnttttctag gccccacgaa aagccccaac 1260
 gcttttaaca gcccaagggt ataagacttt ctacacgttt agggatcaat ctcttttata 1320
 aaaaagggtt gggaatttga accgtgtgac cccaaggct ttaccggggg tgcgccgtta 1380
 aaattggtgc caattggacc acccaacctg gaaaaaaca ctttaaccggg gttcgtttaa 1440
 taaattcaac ccgggagaat cctcccaaaa aaaagagggg atgtgtattt tttttttctt 1500
 ccccggttgt aaaatccttt tggggggg 1528

<210> 3066
 <211> 2239
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3066

aatgttcaat agaatgatt cttatcaagc gattttaaca gcctggctag gtacatcttc 60
 tgctatgtag aataacagca tcaaacccta ggtagccagc ggtgcttcca cagtctacga 120
 accagagaag cacagaagag aaggtattac agtatttctt tgaagatcaa catatgggtg 180
 acgcagtact ggactagtac ctgcaaggat atacgtatac acccctaaac aaaccgcgtt 240
 tgccctactg cgctcccgca ctgcatgatt gctagccttt tataggtagc cttgcgcaaa 300
 tttttattat cgtccggaga caaaggaata tcgcgctaata aattccaaaa gccctaattc 360
 caacactaac ccgatacctg cattttacac tcgtgctggg gacaatagac ggcggcgggc 420
 catcgcaact agagttacct gcacccttct cgttgaggat aaaatcaacc aaaccaccag 480

tcagagtccc catttgtttc tcagaggcgc tacgatcgaa catgtcgtag ctctcgtggc 540
 ggaaagtggg gacattaagt ggtttttagag ggtgatctct ttacttcatt gtaccgtgga 600
 caaagagaga acgtgcagat aaatctaggg gatgagatgt aatcacctct taataccaga 660
 tgcttctatg ctaacttggg caaaataatg tgttcctggg atgtttgggt atagtggagc 720
 agagacatat gttagaataa tcgggcgaca ttctcgtggaa atgacaatca accttggttag 780
 aataattatc agtaccctatg gtacatattc tgtcagcaac tgagaactga agtatataat 840
 gcaggaacga aggcattggat ctgtatttat caccctgcta agtgatacta tcggctgcgc 900
 tgctcagctt cagaatggta gcaatcaaac tcgaaccggg gttccttagt tggagaatga 960
 gtatagtacc agctctacac gtgagctcac gaagcggaag cctgaatata gaggcttggt 1020
 gatataatcc agcaaagggt ggtaaactca gccctaccaa tcttggtaat agtctcaggg 1080
 tcaaccagcc taatacacaa tataccttaa tatcttgacg agatgttgag aagcttcaaa 1140
 gcagatatgc aatgctcaca ggaactgaat aggtttcgcc atgacatctt tctgactggc 1200
 agacgaggag tcgtttacta tgtgcgggac atgaaatagc cctctaataa gattgagata 1260
 tatccctcgt ccaatgggtc acgagggtga agtctcaacc ctcaagcacc gtttccggta 1320
 cctagatgat cttgaaaaga gagcccattg ttcgaaatct cagcgacaaa tccgagtcgg 1380
 tttggagcaa ccacttagaa tatccacatc tttaggtccc tctttatatt aggctctct 1440
 atttggtaaa ttgtcttagc agaagggtt aatctcagcg atgttaatga tgttgggttag 1500
 atcgggtgtag ctgaaagttg tgtacaggat tagataatag tggcgcagtt gctgatcatg 1560
 tgcaggcttc ctggatattg ggctgaagga tgagttgagc ctcggtatcg aaagctgtgc 1620
 aaaggtgttt aaagagtctt gttagcatgt aaagtagact tagggcagtc aaggtgatgc 1680
 gccctgggta ggatctggag cattgctgat gagaccaag cccgggggagc ctctcgttgt 1740
 agtccactct cgtaaatcta actgacaata gctactcacg cagggttggc cgccaacata 1800
 tataaactgg ttaagagctc tacaaggata ctacgtggc cgggcaaagc ctggggctaa 1860
 acggctagca gcagattaca ccagattaca ccatcttact caccaaagac tgtctgagcc 1920
 tatgccaaag cacctggagc gtgcccgtga aaatagttat acgatatcat ttgttcaatt 1980
 ggggctctgc tgtgtcttaa gcgactaccc cgatttttgg gcattctctga cgcaatacaa 2040
 ccctgctaaa cttcaaaacg ctctctgaaa aaataacagc cctgcttcta gaaagtaaga 2100

aaagggaaac gtgggggttaa gatttaccca ttacgtatta tgaattcagc agtgtcagga 2160
 aggttttggtg agctcgaagc tccttgcgca cataaataat catcacggtg gacagcagcc 2220
 atcacggcaa ctatagacg 2239

<210> 3067
 <211> 575
 <212> DNA
 <213> Aspergillus nidulans

<400> 3067

aaaatattct cgaggtagtc gccgtttcct agaagatcga gccgtttgcg ttgtgcggca 60
 aaggctttcg gcagatcttg cgccaggaga ctccgtagag ccgctgagat ggttctccac 120
 acatcaaggt ggacggggaa tggcgcggta tgtatagata ggagggcatc gttccaatgt 180
 ttttggagtc gggcttcgag ttcgttttct gggcgcggga gagagctgtc cccctcaagc 240
 tgagggctcg ctaagacgag gaggcggaag atcgctggct ctatgcctgg cgttgagcgt 300
 ggtgtgagga tgtgttctga gggatgatga tgaatgcgct gggacgctgt gaggcattgt 360
 agctgttcag agggagagga tatgcmcagc cagagaagac ggggtagagg tacagataga 420
 cggtagcggg aacggctagt gggaggaggc tgaggagaag ccgaaggagg atccaacgaa 480
 gggacatgga ggcgacatga tgtagaagaa taatgatatc tattataata gcagggtgcaa 540
 tgttcgaccg ctgcagaatg tacaggggaag aagat 575

<210> 3068
 <211> 579
 <212> DNA
 <213> Aspergillus nidulans

<400> 3068

taattatggt cttcttttgt aaagtttgcg tgaacagacg gttttctgta atacatcgga 60
 aataaaagtt ggacacgaga tgtaatcgag tatttttcta ctgatctgac tgtttcggta 120
 attatatatt taggtttata cattcaagtt tatacgtgca agtttagagc taattacgta 180
 ggtggacgag accgatatcg ctggaatgag gatgacccat catttagagt tgctcgactt 240
 gaatcacgct ttatctgagc tagaagctat cagtgccatg ttcactttct tacgactcag 300
 gcgtccagct ccaagacttt gtccggaccg tctaggtagg ttgcggctta tattcgcatg 360

cgttgctatg ccatggtatg ttggcaggtg cctgaacggc acgcctttgc gagggccagg 420
 ccgagatacc cgaatgcaat cacgagcatc gacggctagg caggcgaggc ccagtgccttg 480
 ccgaccgaga cgggatccca tttctgatta actacatagc ggcaccgaag caacaacttg 540
 gttatatgtt taccaaacag caaatgtgga cctgcaggc 579

<210> 3069
 <211> 4386
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3069

gtctggagac aggttggcaa ccaagtccca gtcagctcaa tcacgttcac tctctaaatc 60
 ttcccccttc aggcattgct ttaacaaggt tccagagcct atgcatccac tttggccccc 120
 ctcagggtta attcacgtgc ggaaccttag taacgaactc gatttaagaa acgacggcga 180
 tcgccaagcc accgcaacgg acaacaggaa atcaaagacg ccagctgttc aagttattga 240
 tgaagaaaat gtgctttcct tcttgaagtc ttcgatata ttgccggctt tacgaaaacc 300
 atctaaacag gtaatcagtg gacgagtgct gcaggcaaaa gtaggcaaac ggctgatggg 360
 gcgaggcgcg agctcggaca cagacgaggc tccgtcccct gatactttac attcagctgt 420
 gggcagggtta tacacatctc tgcccagttc aatgagcgcg tttgagcggt gagattacga 480
 ggcgcaactt tgggcgcata agtatgcgcc aagtaccgcg aagcagggtc tttgcgctac 540
 caaagaagca cttatgctgc gcgattggct aaatcatctt gttgtgtcta gcgttgatgt 600
 gggtagttca tccagagata atgagaaagc caaacggaag caggagaaga agcgcaagag 660
 acgaaagaga acagataaat tggatggttt cgtggtgttc agcgaagacg agtactcgtt 720
 gggtgaaatc tccggttctg atgatgaatt agctggcgat gtgacggtct cgaacaagcg 780
 cactgtcata cgaaccgggg atctcacttt caacctgaag tctagcagtg accgcagtcg 840
 tatagccaac gcaattcttc taagtggctc gtcgggatgc ggtaaaaccg catcagtata 900
 cgcagtggtt aaagagatgg atttcgaagt ctttgaaatc aatgcaggct ccagacgcag 960
 tgcaaggat attttagatc ggattgggtga catgacgcaa aaccaccttg tgcacaactt 1020
 gcatgacaag gaaaatgtca atcaaccttt cgggacatct tcgcaggctg aagagctgga 1080
 agacgcgaag caaaaccaat tgactggatt ctttatgcct gctaagaaag ctggcagacc 1140

acagccaaag gctccttcaa aagaaaacgt catgaagcat tcccgaactc agaaacagtc 1200
 tttgatactt ctagaagaag cagacatctt gtttgaggaa gacaagcagt tctgggtccgg 1260
 ggteettact ttgatcaatc aatcgaagcg cccgattgtt ataacttgca atgatgagag 1320
 ccttatcccc cttgatgata tatccttcca tgctattcta cggatatagg ctccttcaca 1380
 ggggttggcg gtcgactacc ttcttctgat ggctgcaagc gaaggtcata tactgcagcg 1440
 gacagcagtt gagaggcttt attcagacac ccgcaacgat cttcgaaagt ctatcatgga 1500
 actgaattat tgggtgccaga tggccgttgg cagcgagaaa tccggccttg attggatgat 1560
 tgaccggtgg ccacaaggtg tagaccttga ctcgaaacgga gacaagcttc gaatgctgag 1620
 cgcgatacaca tacgataact acatgggctg gtttagccga gacattatga tcagtcccgg 1680
 cttagcaaca gagagcgagc ttccgggagga agcattgcac tgggtggcatt tgagtctaca 1740
 agaggccgat gtcattggagg attcacagct tcaatcattc cgagagccca aaacgagtct 1800
 ttcgaaaatt gagcacatcg aaagtctgtg ctcgagctct gaatatatgg aatcgogaag 1860
 tgtcctcgat ctgcttgctg cgccatgctc cctggatgca cggatggtaa ttttatttcc 1920
 catttcttct tccctttttt cccgataggt ctaactgtcc caggatgcaa tcgatacatc 1980
 cataccaccg atctcggaaa aacagaagct gaatttcgtt gacgggtata aactactaca 2040
 tgctgacaaa ctccctgatt acgctacctt gacgttggat attgggagta cgtttcagac 2100
 tcttctggga agagtattcc gcggaacttg tgaagccgat tccaaagaca tgctagccag 2160
 caacatgttg gaagctgttt ccaagcccaa ggcagctgag cctgccaaag agcttctaga 2220
 agtgctcgta ccgatagcga agcctgattg tggatatccg ccgcccagtg gagggcgaga 2280
 gcttgcgttt gagtatggcc aacaatcaat tgtcgaagat ctcgcgccat atgttgcgtc 2340
 aatagtagcg tttgaccttc gtctcgagaa ttaccgtagg gagcttagcg gccttctctc 2400
 cggcgatgcg aaaggtacaa aacgaatgcg aaccactcgt gctagtcgag cagcactcga 2460
 aggcggcagt aaagcggaga ctcggaaga gagatggttc tcgccggctg tgaatgttca 2520
 acgcatttta gccacgggca acagagaatg gcaggatctg ctgggttcaga acggctatct 2580
 taccgtgcct gtggcggttg agcaggcgac tatggagcgt agtgagctgc cttcaggaag 2640
 tgcaagcgat ggatctatat aggatagccg tttatagaca gtctagtcac ccatacaaca 2700
 atgaaagcta gagctatacc ccagagaacg tcggttggag atgccaaagc ttgggttgac 2760

tagcctccgc ggtcagccac aacatcgaca tcatcccctc aagacttcct tgtcaccctt 2820
cccttatcaa caccgggaaa gcaggttctc tttcccaggc catctatacc ttatacttct 2880
gttactatca atcattatat attctaataca aactactatc agctgtcctg caactcggcc 2940
ctgtctgccc atcctgctgc ctgtgcctta tcgcgccga ccgagctccg ttctctcgcat 3000
cgctcctcca ccgtgcccgc catcgctcat tccccatgtc attatttggg acgtcgccag 3060
atgactcccc ggcagccgat tcagctcgga gatccaaaac ttctttattt gccgacgagc 3120
cttcgttcgg caccggcagc agctaatttt ggggggtcct ctctcttcgc agatgacgat 3180
gatttaggtt caccgtggaa tagtaacact gccaaacgaa catccaaaca acaattggtc 3240
aaaactttgt tgccaggact cggatgtacc tgaaagctat atcgatgctg acgacctcgt 3300
actgagtgcg ggggaaagag cgggcacggg cgttagccta acgactgttc gagagctatt 3360
gtctggcggc ggactttcgg caacggatca ggccaagatc ctcaaccttg ttctctccgg 3420
tgatactgat aggtccaacg ggctgagtcg tggagagtgc aatgttctac tagctttgat 3480
agggcttgcg caggaaggtg aagacttaac tttcgacacc gtagacgatc gccgcaagag 3540
tatgtccttt gcgtccgaag actacattga aactaacagg cttgcagagc ttctgtacc 3600
aaatagctcc tatttgatg cgctgcgcgc gaagcaagag tctatcatgc ccccttcgca 3660
tgagcgtcct tccactcctc ctgcgcccc aattcccgtc caagaaccga gccccgcgca 3720
atcgccgctg gctagaggag attccatggg tggcctagat gcagacccat ggggtagtcc 3780
gcagctacat cgtggccatg ctcacactca gcgcgaagcc gagcgccgca tgctgaatgg 3840
gtatggcagc gttcgatcag caacaaacgc ctgggtccaag actggtgact cggtaaatacc 3900
agatgcaccc tctaattcga gctacacaaa tggccggtct gagattcgca gttccaatag 3960
cgccgattac ggggtgggtg accattttgc gcaatcatca cagggcggga gcctcgagg 4020
gccagttcag cctggtctcg gagattttgg acggcagggg tcggtcgggg cgagcctaata 4080
cccagtcgac agtcaactgaa cattgaccgg gccataaaca accatgtcaa acaagtgggtg 4140
acagtaacac ttctcccaca gaagaagggg ttgttcatgt ttcagcatcg caattacgag 4200
gttaaatacg cccgtcgcgg gagcacagtt gttccacggt atagtgattt tgtctggctt 4260
tttgattgcc ctcacaaacg ataccattc cccaactac ctctacttcc accgaaacga 4320
caagcaggta agtcgcaaga aagcatgttc aagctctcct ctccgcgtct cactataaaa 4380

<210> 3070
 <211> 1773
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3070

```

gatacccttg aagtgaagaa cagaaacaag aaagacactt tcttccatat accgaggggtt 60
tggtgtataag cgaagacgcc aatcaaaaaca agtgaaaaaa gccccctttt gcaatacaat 120
cgtgtcatca acggcatcaa gataaaaaca catgtagaat ggatatatca ttcacaaggc 180
aataagtggg cgtagaagac atattacgcc gcgaacagtc ccctacaggg gtagtcacta 240
agcatggcgg agccggctca gtcagatgag ttcaccgttg caccgtattt gtggtgcccg 300
tctcaactga tgattgtgta aactagaac cagacgtagt cgatgcgttc aactcgaag 360
atgccacttg tgccctgagg gtggctacct ccgacttgag tccatttagt tcctcatgaa 420
ctgagcgaat gtactcccag agcttttccct cccgttcccc ttgctgatcg aagacgctcg 480
gatcgtgaga ggtatggacg ttatgcgttg atgctgcttc ggggattgtc ttggaagtca 540
aagaaccacc gtgattactc gagtggctat gtgatggcgt atgttttagc gcggaaccgg 600
aagcctgtac ggagctttgc gagtggaggg aaaaacgagg ctcaagaagc cccaagccag 660
gtggcgggcg aagttgaggg gccccgggct gaggtgggtg aaggcctaag ctcggtgcag 720
tgtggttgga aagagaagcc tgagaggggc ctgtacgatt gtatgattgt tgaggggaatg 780
gatgtgagat tccagcagag tgggcgcgat ggtgcatttg tagaccgttt tccggccccgt 840
gtcctaattg gtgggaagat agtgcgttcg gtgagagcgg ttcttggact ttcagccatg 900
tttgaaggcg caaaagcaga ggagccagat ggctggtttg tcgaggggaa cgccatattg 960
ccggactgag atactgggag aaggggaggg actagaaccg ccatgacttg taggaggagg 1020
gaaaagcccc ccaggcgacg gtctgctcgc ggcaattgga gggtaagtgc taggttgacg 1080
cgcttgatag ctgcttacgc tgattgagcg aacggcataa ttcgagggca catcatgctt 1140
ctttatgctc ggcattgtgt aacgtcgttc atcatcttca tccatgcatt ccggttcggc 1200
gtaaactacc ccatccatag cctctttggc accagcagct gctgcacac catactcatc 1260
ttaggggtgcg taacttacca tgctggccct acgaccagca caggcacctt ggcccttatt 1320

```

atgactcgca agggcctcac cgtatgcaaa cctgtgttcg tactttggac atatatggtg 1380
gtcgtcacct atatgaattt ctgggatact ttttttagca tactcaatcc tctgaaagct 1440
ttacttacag tgttgagtct tacataccgc tttcttatct tctataatgc gggtattttc 1500
tttgatgtgc tttattttaat tttttatata gctgttcttt ttttccttta ttgttctaaa 1560
ctcttggtgt gtataaaata atgtatgatt gtgatatctt tattttaata ttatatattt 1620
ttttttttat tttgtgttat ttccactccc ctcccctatc gttaaatctt tattatcatt 1680
ttctttttct ttttttagaa ttcttttatg ctataggatt ttgttatttt tattatgtat 1740
tttattttta tttatttata ttattatatt ttt 1773

<210> 3071
<211> 1324
<212> DNA
<213> *Aspergillus nidulans*
<400> 3071

gggcgggctc ccgctccgtg ttgcgtgggg gggcgcttgc tggtcggtca tggtgccccg 60
ccctttcagg ggcgggagct tcgggtggtg attgccgcct gtccgcctaa ggcagtgtat 120
tttaggccag cgctctgggc tccggagatt ctgcttagtg ttgtccgctt cagtggctctg 180
cgttgtcagg ttatgatata gtcatgcac ttgagccaga gaacttagat actgcctctc 240
tatcgccgcc ttgggcttag catcacctga cgtcctggaa aagtcaacca gggctgaaga 300
tacctcaaac tagggtacgt atgatctaag acaggagata aaacgatata tttggattgg 360
tactgaatcc tattttatata caaccgggaa aaaaacaatg tatgaaatgg agaagacact 420
ccaatccatc cagtgggtgt ggacaatcat accaaggaga agaaagtctg gaatttgtcg 480
aatttcgagt cttcaattcc aaacacagtt tgtaatgaga acagaaagga gagcaagagc 540
cctcggaatt gcatcaccat accaagacaa accaaatctg tttatattga tttgagtggg 600
caagaaagca actttgcgtg ttgctttgcg taaagaaaag aaagtagaaa atctcaaaag 660
ctagacatga aggaaaacag aaaatgacaa tcatcccaat aacagtaatg ggtccgttac 720
gtttcgggtca tattatgtat acgaggttcg catcacacaa tcggagtctt gcgcttttcg 780
gcgctcgaca gcacaagcat aggagtcttg cgcctatccg taccctgggc taccgtcttc 840
tgaccagcga cgacagcagc aatggatggc gatccattct cgggtgaagg gtgttctgcg 900

aacttgcttg caaaataccc gtctttctcg ttgagggagt ttgtgctaaa cggactgtcc 960
ggcgacttgc gctcccggga ggattttctcc ttctctcag agccaatggc accgttggca 1020
acagcgcgca gactgcctag actgggtttg ctcgaaaggc tagcactgcg aaccgtggca 1080
tcgtcattat cggagaaggt gaattctttc tcgcttgag gagtggtggg tgcccccgct 1140
gctgtgtcct aggtctcgag aatctccgag gcgctcgata cctgcacgca ccaagtattg 1200
gacggcacgg cgacgctgac ggggtggcaaa atttttgctt ccttcgagcc ttgaggttgg 1260
tttagcaact agttctctca gcgacggcgg ggcccagttt gaacgacggg tgcttcccac 1320
acga 1324

<210> 3072
<211> 782
<212> DNA
<213> *Aspergillus nidulans*

<400> 3072
cagaccctgc tgccaacaag aagaagggtca agaaggacgt cagcccgaaa attgggaagc 60
gaaacgacat cggaaactca ggaagaagag gaggaagagt tgagcagcgg agacgaggat 120
tttgacagagt ctcaagatgg tgacggaggg tcagaagcca gcgagcttga cgacgctgaa 180
actcataaga aagatatcga ggcccttaaa gagaaggacc cggaattcta caaatatctc 240
caggagaacg atgccgagct gctcgaattc ggtgaccttg cagaggttga cgcgctgagc 300
gaaggagagg acgagcagga cgaggagccg gctaagaaga agaaaaaggc agcaaaggag 360
gaggaaccgg cttctaact aacggttgca tcggtgcaga aatggcagaa gctcatggaa 420
gaacagcact ctattcgcg c aatgcgacag gcagtgtctg ccttccgtgc cgcggcgat 480
ctcgacgacc cagatgcca ggagcaaaag tactccatct ctgactcaaa cgtgtaccac 540
caagtccttg tcacggcact taacaatggt cccaaggttc tttcgcatca tcttctgtc 600
aaggagaccg cgtctggcaa agttcgggtt tctactagact caaagaagtt caagactctc 660
acccccctca tcaagtcgca cactctctct gtccagaaga agcctgcgca cctctccgac 720
gagcaaacc tcataatgaa atctcttcga tcgaacccat gcttccctac ctctctggat 780
tc 782

<210> 3073

<211> 1799
 <212> DNA
 <213> Aspergillus nidulans

<400> 3073

```

gatctcgaag ggtccgagtc ctgcaatgga atttgatggt cgagctatat cagatctgag 60
atgtgtaaca gattaacgac cgttaacatt caagactatt gcaagccatc cgttgatccg 120
gcggcgctcag aagcacactg tagtcagtca agtagtgact gcagcggcca cagtgataat 180
gtaagatgag tctgagtcta ttttttagtct tctcgagcgt agtcatgaag acagctcgag 240
tcagactatg cgggtccggga cgaggacgag catactttctg aatacgatcg cccgtaagag 300
tcctcaaaat cttgccacgg cattgagcaa tcagccgttc gtgcaacagc gtccctgaag 360
cagatgtggt ttactgcttc gacagaggtg gtccagatct cggctccaga gcttgtaagg 420
tctgataacg gcagtttaag agggctgtat acatgctaca cggcagtgtc catgccatat 480
cgagtaaggg aaggcaaatt gtggatacac ggatcggagg attcacaagg atcgaatagc 540
tgggtagaca gatgaccac tgtcggtgga tatagacagg gccgcaaggc atgaaggaaa 600
gcctggacag gggccaccac gaagagcggg agcgtcattg ggcaaaggta agcgtcaac 660
acaaagctga aacaaggggc aaatacttca cgactgtttc tggcgccagt ttgatgatgt 720
ttgctctgcc ttggcatgct cggtccacc agagctcgac tcctgactcg cactcacatt 780
cttggcactc ggcttgggta acctgacttc caggctgaca actgacatag acagcacgga 840
gtggtagcag ttgtactact ccttgggtccc ggggtggccct cactaccga acttggacaa 900
atctctagta atatttctgt gctctggaaa agtatctgtc taggtgttga ggatgcaatc 960
gccctccag cttgagcaga gcttgccatt gagttacaag agtatatggc ctctccagtt 1020
gggtgggccg gcgcgggcct gaggggatgc tcttaagggg taggtgcggt tgtcgatccg 1080
gcggtcttcc agtaccgcat tacgatccct aacggtcatg atgattattg ttatcatggt 1140
ctggcgaatt ctcaagtctt ccaatatggc atgtaatttc cgcaagacct gtgattagac 1200
ctcgtttatg tgcttccaga ttatatatttc gcgctcttaa tattgggtgc tctatattgt 1260
tctttccaaa attcgctttt tacagtggcc cttgcgactt gaacgcttaa agactcgaag 1320
ggaggccgcg cttctccagt cgtactctg tggactggac ggagtatagc ttcaagctat 1380
gttcgtgggt agcctaacc aaaggagg agcatccgac agtaactcag aaactcagt 1440

```

tgctagactg taagcttgct cagtcaacag atctgctcac tactctcaaa tcagaaagga 1500
 cttcagtcgc tgtctcttcg atggatccgg gacgaggccc cactacctct gtgatccggt 1560
 gacgtatgtg acaaagcctt acgcgagtat cttactatag cagccaaatc ccagtatttt 1620
 tggaaaggac ctggtatagt catgtatcgg tccctagcgc tgtctccgct tttccttgct 1680
 ccagagtctg gtctctagcc tgacgcaggc caggacggcc tctttttgcg ctgtcgggtg 1740
 gcctttggta gccagcctct gcagtagtgg gcaggtgacc gggccagtca gaaagagag 1799

<210> 3074
 <211> 1190
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3074

ggatgccctt gactacttgt tggactatcc tatcgcgcca tcacgaataa ctattttcat 60
 gacaattgcc gaggacagcg cgtggggcaa catatttcga gcacagggga ttaatgtggt 120
 tgttcttgaa gatcgacagg caaccacgca gaatcgcgat gcagctatga cagcagcgac 180
 cgattatgat attttgaggt ggagaacgga ggaagaggcc aggggaatttt atggagagtt 240
 gtaccagcct ggacgcgtaa ctaatacaga gaggaattgg agaaggagaa aggggctttc 300
 ctgatggctt atgtataatt aacgcaaacc agcattccgc aggtatgcag ccaaataat 360
 gtctagaccc tcagtgaaga cccaagtttg ccgtcattcc agttcagccg gagactggag 420
 cagatttgta ttgcattctg gctctatttc gcaaaatgtc ctttacctac acattcta 480
 gaaaactaac actgggaagg caaattcttt ctcaacgtac tacttactta agtagtgctg 540
 gaggaattaa gttgcctgct gcagaaatac actcgtcgct ttgtgaacca aattatatcg 600
 acatttcgtc agtccgcaa gataaagggtg atgcgaatcg tccatgctag tactgtgatg 660
 agcagaaatg cccgggtttg tgacttgccg tggccgaact aagacacaga actcagetta 720
 tgaccggata catagtcatg ctatgcccat ccaaagctg acttccatcc cccctctgcc 780
 tcaaaaaccg ccctacagc ctctgccacg gaaagaagat gtcgctcatg aaacctggcc 840
 gccacaagtg acaaccaat tggcatgccg ttggttcctt gaaatccggg gatattcacg 900
 acgggggtgt ggagcgcctt gtcaccaaca aacgttagcc agtctcgtag tctggaggct 960
 tagcagtggg tacgtaccgt ccacatccca ttaaagctg cactgcccgt cctcagagtc 1020

ccctcaggcg cttcatcggtg tacgtctgggt gtcagcagcg cagagtagcg atttgcgatg 1080
 tcatcaataa ccggtctaag cgtccccacg ccatcaaaag cagcgatttc ttgcgcatgt 1140
 gtccaccgtg tgatattctc aacctgggtta ccaagaaggg ctgggctttt 1190

<210> 3075
 <211> 2146
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3075

agataaaaag aacgaatgaa ggagaaggaa aggaagtagc aaaaaggtag aatgggaacc 60
 aagtgcaaag gaggatgta acaaaagaaa ttaggaggag gaagaggatc tatatttttag 120
 gtgaccaccc gatatacagta cgggacagaa agagatggtc ttatacttgg tattaagggc 180
 tccgagggtta cctagaaaga agggtagcag aggcagtcga tgcggatagg ttgccacatc 240
 taaggaaatc cacaaaaaaa ccgagattca tggccaaaca gacaagccag gtgggggacc 300
 caggtacagt gtctcagccc caagaatcta ggaaacgagc cagagcatag tgttcatatc 360
 aaattcaacc gtgtggaagt ccggacgaaa agcctattat gtgttgagga cggcgagtta 420
 ggggatgcct aatgtatgaa agtgggtttt cgaaaacgag agggcagtggt gtatctggcg 480
 aaaacgagga tgttgttcaa aattagaaat gttatccaca cgggctatag caagtaagaa 540
 tagtaagagc tgcgcggtat gtgagatgag agttgggtgg tttatgcctt tggaagtcac 600
 acatggcaca acagtccaca atgctatgag ccaacatgac tctatctgac acggacgaaa 660
 agtggatatga agactgtggt atagtactct gtattaaatg gcagttctgg atctgcacta 720
 tatcaaatct ggctcccag tgctcttatt ccgtcagtgc ctcaggttct tatgctactc 780
 aggatatttc tccagcatcc ctggcaggct tacgcgtgtg ctcgagacta gggtccagac 840
 attttggaac ccattaccaa taatcttgca atctttgtaa caatagtacc cacagggcta 900
 gacagccttt ttaaattccg taatattgat gtttgacgag cagctagcac gatcttcaga 960
 gagcctgtag ttttgaccag aacgagaaaag ctatgccttg gctaataacc agagcgattc 1020
 aagtgattta agctgggtacc cgcaaactct agttctccga taagatcatc tctgatcta 1080
 gaatatatcc aagcagaaaa ttgtagctgg atccaagcta gttacttggg agtatgtcct 1140
 cccaatgatg ctatatgcaa agccctagac ccagtcgcc agctgctctc caactttaca 1200

agcccttgct catccagtca atcaacttgg tcgaactgct cacacaagct atgaatggtc 1260
 ttagtgaggt acacatatct aaattgttta tctcgtagaa cagcagcgtg agccctaact 1320
 ccgacagttg cctgcgatct tttgagtcct actttttgcc cggatcgtgt tttagtaggg 1380
 tataacgaat tgacatctta tagctgtgtt ggaactttaa ggcaaacatc ttaagctttg 1440
 caatgtcctg ctttctctag tgccttgca aatgtccttt tctgagttcg tcttatcaat 1500
 ccgtatcgcc gcagacttcg ccttcggaac aggtatagtc aacgtaatcg ctgggctcat 1560
 actcacaaa tgaacgaccg tcgtcactgt cggatagcta gactcgtgc cactgataca 1620
 aagactgccg tcattagacg ctctcttatt attatgctcg atctccctgc aatcaaagat 1680
 tttcactggg gttggcgctc gactcccgag aaactgttga ctgcttgtgt ccagtagggc 1740
 ttgacgcctg gttattgaag acgatacaca atgataaagt ttgtactgcc taagactaac 1800
 ccaattcaaa agcccaatcg atccctggga gagagtgact aggaagaagt gggcgccctt 1860
 ttttaaagct acacaaaag ctgctcaat cttcccgaga agtgcgatgc tctggaatgg 1920
 acaaccaga aatggaagac ataggtagga tagttgggta gaatgcgggg tttgggattg 1980
 agttagatga ttggcagtc cggcagtttg ctcaaccaga ctatctgaca atagggggag 2040
 cgaaagcgtt ttgaacaaa taaaagtaaa acgggtcaaag gaagagacat cacaaaaggg 2100
 gattagacaa cacagtttac agagagttgg aacttgcccc gatcgt 2146

<210> 3076
 <211> 736
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3076
 accttttgac ggacccaaag ctgaatgtca tttttgacct ctatttcagt atgttgcaat 60
 ggtgggctct cgtactgccg catgtgctaa tgtacgtcag tgtacacata ttccagcaga 120
 cttgaagttg gctcgccccg gttcagcaca cctggaagtt tcttcattta tgtgctgttc 180
 gtggcgctga ttattatggt aagtctgat tatcttgatt tccctgatag aatatatcta 240
 ccacataaat ttacacttct ctccctctca tgggtgcttca tcggccccc ctcacatctc 300
 cataccctgc aaacctcgca tatctgcccc ccagcccca ttctagctga agcggttcct 360
 ggaaacgagg aagattaccc ctgcatcgca tatggtacct acttcttgat ccttataggg 420

ccatgtacgt gtaggcttgg tgggactacc agtgagatag cctgcgtaat gaatgtttac 480
gcaggtgggtt ttggtgccct acattttata atcttgtgca taacatttac ctgacttcac 540
gtaatatatg tactctcttc attcatgaaa agccatcagt gtaccccaat tcatgctaac 600
gacctgaagc taactgcagg gttctatctt ggagccgggg ttttcacaaa tggtagactt 660
agtacgtgat tcctgatcat aaggagctaa tccccagcag cgctgatatc ggcactcgaa 720
tacacatatt cccagg 736

<210> 3077
<211> 3559
<212> DNA
<213> *Aspergillus nidulans*
<400> 3077

tgagttccgt gcgcatcatg gtttgtccgt tccatgacgc cgtgttatcg agtgttgtct 60
tgagaccctg tgccatcatc agcgtcgagt tggggttctt gtactcgaaag gagagggaaa 120
ggtagtgcgc tgtttcctcg gaaccgtgga tgtaccattg gtacggggggg atttgtgagg 180
accaggaccc tttgggatag tcatattagc tcagaagaga gagagaaagc acaggagaag 240
gtacggaggg aaggtacatt tgtcaaagtc ggcgacggta taactctcgt tgaacaggcc 300
gctccagacg gtactgtctg aggcgagggg tgtcaacggt gaaagcaggg ggaggatcga 360
ggtggacttc attttctgcg actgatagat tgactgcttg gctttcttgg tttgaggcga 420
tttcaaggcg aagatggggg tttatagctg gtgggaaata tgtgtgtttc accgtgtttc 480
atgtagatcg ctccagctgt cegtctctt ctcttccgc ggcggatcta gcacggatcc 540
gtggcgggga tgaggccggt aggatgctga tgattgacag atgtttattg taaattaagc 600
cttgtctact tcgtacaaga gttcttctga gttgcttcat cttattacat atagagctta 660
tatactccac gaatacaaat ctgtcttcac cgctacagga ctatgactca tagaacaagg 720
tagtacttgc cttcacattc taacacatag ccatatcaga attattgtca gtgctcttgg 780
gcttcaattg cttcctctaa ttccattgcc ataaggctct atcgatctcc tccgcccggc 840
aggacctttt tcttgtcaca ggttcaattt cagtgcagat aaactaacia gtgggatttc 900
ctctactcaa ctgccgggta ttcactccgt tgtttctacc tccgcaagat gaatccgtga 960
ttcgagacaa gtcggaggtt cctccgttgc gggccgggga ggcctgtgac gatcctcact 1020

aatccggaac ggcgtagagg cgttcatttt agcgtccata agcacaattc tgcaagattt 1080
aatgcaccca gcgctctttg agctctactc agtggttaagg ctggatcctg cagaaactgg 1140
agggatgttg gctggtagtg gtgacggtgc ggggaaaggc aaatgttcta gggctaagta 1200
aagcaggtga tctttgtacg gattatattt cctagccaaa tcaaacggcc aggttagatg 1260
aaaatacaag tataatatat acattgaaca gtcgtacggt cacacggtca aatcaatata 1320
actgactatc ctaacagcga aagcaataag atattcatta ctcatgacct cggcattaac 1380
catatccatc cgccttatcg caacatactt agtccagcta ggctccgtcc taaccaagca 1440
gcccctgccc tttcttcaga cgtagacact accaactctc cggcccaaac ttcacctccg 1500
tcacctgcac agccgtcccc gccgcateca tcgtattcgc cgcaatgttc gtccccacc 1560
aggatgggaa ctccgtgttg gtcaagttca aggtaaggaa aatcaagatg gtgcacaggg 1620
caaggccaca tctagaccgg cggaagaac atagtgtgat tgcattccacc agccgcgcca 1680
acggtcgcgg atccacttgt tgaagatgaa gccgataatg cccagggaca gataattgag 1740
cggcgtggca ggagggataa agctagatcc accgaagatg atgggcgcat tgagaaggcg 1800
cacgtagcgg gcgtacttgg tgttcggaag aagcttggct gcgatgtaga tggcgacggg 1860
gagggcgcca cggcgagcc agaaccattg gagactagcg tagagtggc caggagagaa 1920
catgccccg gggccgatgg tgcccagat gatggaggcg ttgaagaaga cgcgccggtt 1980
gggacaggtg tagcggttcg gctgatcgag ggtgcagacg ctcgaaatgg cgccgagagc 2040
ccagttcatg acgcagatct ggacaatcga tgaccacagg caagatatca tctgtgctgc 2100
aaaggtcacc cgcggaggaa tcttcatgta gtggccgagc ttcattgtcct ggcagaagta 2160
aaggccctgg tacatgctga tgtaccata agttttgaag agcatcattg ccatcgggcg 2220
gccaggctgc atgtacccaa tcacaaactc ggtgataacg ttgagaccga tctgaatggt 2280
ggtcgaggct tggataatac cgcaaggcac gaaccatact gcacccatga tcagggcaat 2340
gaagaaggcc caccagctga gattggtcgg gtagccgagt gtgacaccaa gagccattcc 2400
gatcataata agtgtgatag cgccgtacca ccataacgga acaggcttga atcgagccat 2460
gagccgtgca tggacatcct cgtcctcatg accgatctga cggaaaccga cccagatgtc 2520
ttttccgtgg aacaggatgg catggataag cacagcaatg atgggtggca aggacagccc 2580
ataggcgaga gagaagggtg ttgataggaa cagaggagag taagcttcgt acttggcctt 2640

gtccaggggtc atctgcgggg taagaatacg cgtaacattg tagacttgac ccgtgttggtc 2700
 gtagctatatt gagtcgctga tgggcaggta cttggcccag tgagtgccag tgtagtgcag 2760
 agccgtgggtg acgacccaaa aaagatgaac atgccagct tagtggtggc aattccgtgc 2820
 cagggcgcgga tgagcgggct aaagttgaat cccgaaatct gagtccagtc aaaagtcagt 2880
 ggaatcagcg aaaggccggt ccagccgccc aacaactgat tgatgaccac gttgttcggc 2940
 ttgatccaag tcacccaggc aaaaacgctc aggaatgggg caatgtatcc cggaaaccaa 3000
 taccaaagaa aagatccaat cagacagtac agaaacatac ggtatctgcc aattgtccag 3060
 ccagagactt tgcttgggtc gggccgactt cggtcatgga gcgcggtgaa aagcgcacta 3120
 ttgatcagcg tcgacggcca gatcattgca gccggtgtaa ccaagaaccg gtggaagaag 3180
 ccagccattc caaagcccag catctgggtc gagatgcaca tgaagatctc aaacgcccag 3240
 tcaaagcggt gctttagaaa ggcgcgctgg gcgagcagaa catcggtcgc gtaggccgca 3300
 ccaccgcaa aggtggcatt ggccatgatg accgcaatgg catgctcctt cttactataa 3360
 ggtccaggat ttaaattgac actcattcca aacatcctga ttgtcttatg gggcatgacc 3420
 ttggcccacg caacgtcaa tggggtaggc gacgacctg gcgacatacy atggaatgac 3480
 gatgtacggc tggcgcatgg agaagagcat gttgagtga gaccgactgt agctaagaac 3540
 atgcaatggc caggcgcg 3559

<210> 3078
 <211> 1682
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3078
 gggggaggag aggataattg agcggcggtc ttttccgat tgttcaactc tcttggttg 60
 gcgcttgagg tcggggcggt cctacgtaat ctaagaaaag gccgcaatta gatgaacagg 120
 cattttaagc atccctgcgg cggtagtaga tacaataaat cgaatggcat ttcttcttgt 180
 tactattctg gtgacttacg aagctttatt taccgctct tgcaactgca gtccggtact 240
 tacggcgacg cacctcttga ggcccatgcc gctggagcct gggcacagtg ccctgctgaa 300
 gctcgggcta tttctgcagt tccccatgt tctcgagacc tgccagaatg ccgcatgggt 360
 acacatgccg ttgacatcct acgtaccatt ttcacttggg acctttaccc cttgatgctc 420

ttgacatccc ttaccgagtt ctttcacagt tacgccttca taactggacc tcaccagcct 480
 tgcaaggctg ccaagatcga cctcatttta ttggagatga acaaatttga cccgcttact 540
 gtgggcctgc ccagacgcta gactagattg ggcgttttgt catcacgggg ctcagctaat 600
 cgggaaattg gacccgtccg gccaaaggcg ttccaaccag aggccggtaa acagtgattc 660
 aaacataaga gggtcacaaac cacagggttca ttatgcaacg ctctccctgc agtcaatctg 720
 cataaatgtc agattagccc aagtagtaca atgagatgct gggttcagact acgattcgtc 780
 aagacctcag aagctgagaa aacgaatgca ttccatgaag ataaaaggag atatatctcg 840
 gctaatagaa caacatatag gcacctgcac gcgcaaagga atagcaaaca tcaaggcgaa 900
 catagaagaa aaagaaaaca aaacaaaaac aaagagaagg taaagacaaa aagtcaatac 960
 cgaatacaga aaatccctca ttgcatgcgc ggagctacga tttccactgg agacgcagta 1020
 atgcttagtc tccaagaggc atccccctca cctgggtcacc cagtgaccgc cagttgtcag 1080
 cttgcagctc cgagtacttg actcgetctt gactccaatc ctgatgaagc cggtgatgt 1140
 gatactggct ctgttgaag tagataagct cgtctcggat gcactctttg atgaacactc 1200
 cacgcgcatt ctgttgtaca attgattctt tgtcctacag aatatgttag ccaaccaacc 1260
 ttctggggcca cggggcaaat agtacgaacc ttgaaaatcg actcctcgac cttttcgatt 1320
 tcacctggct tgacggtccc ctgtgggtcgc gctcgtaggt cttggagctt gcgttcattc 1380
 gctcaattc gcctttctaa ctgggggatg ttgttacggg catatcggtc ccgtcgggtca 1440
 aacatctccc gcacactcac taggtgtgt cgtgacgtt tcaaactctc caacactccg 1500
 tcttcccacg ccgcgcctc gtcttctagc agactttgac tggcggacaa gtgtcttgcc 1560
 gtggccttga tcccttcatt cagtagaggc acgtcgttcg tatctaacgc gtatctgtcc 1620
 cgagtcattt ctgtgagggt agcagggcaa gcgaaaaacg cagatgggtca cagcaaggcc 1680
 tt 1682

<210> 3079
 <211> 699
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3079

ggagctgttc ggggcgacct gcgagtatgg ccaaggccag ccagctgaga cactacctgc 60

aagatccagg agtagatgat cctgcgaagc atgacggggc ctagaccatt gaacacttgt 120
attgatatac taccatagcg ccggcaccca agtcacattc taacgccgac attgtatctt 180
gttacctaac tccagctctg cctacgtaaa aagaccatga ctgcaccaac ctggaacctc 240
ggcgattcaa tagtttccag cgccacaaat cctccctcga ggagaagggtt gtcgaagcga 300
gtcagagaat cgggttttgt atcctgaagg gaagggtttgg acgaacatag ctgctattat 360
tattcttctg tggccgacgg tggcagcgcc aatatcagac ttcgagagac cagatacgga 420
cccaggctgg gtcgcaaagc taccgtagct cgtttacggg ctagtcaaaa caatatcaat 480
gtttcatacc tcaaagatac ggaatatgag actcgttcaa tgattcgctt tgcgtagctg 540
ttgagcgcat ctcgggcggt catccatagt caaaccaca gcactgttga ccaattggcc 600
tgaattacat ttctgcca cttcacctaa agtttcagaa taaattctct caaagttata 660
ctttcgcagg atcagaatcc tgttcagctg cctgcgcta 699

<210> 3080
<211> 1075
<212> DNA
<213> *Aspergillus nidulans*
<223> unsure at all n locations
<400> 3080

tataccttct ggggttcgtt aatcgtaag atggtgaaac acaaggagg cttgggttttt 60
cccgccggcg atgccattgt ttttcccaa gtttttcaac ccgccggctt gatcgagat 120
ttcctcaatg gcttgaccct ttggaagact ctggcgactc tgttcgctt agctgtggtc 180
tacgaccagt gtacgtggcc tctggaagcg agtttttgcg agttactgat tttctcccag 240
tcgatacat ttacctcaag ggcgccatcg ttggtccagc ttggaagctc ccgtttatgg 300
gaccgttctt ccagtctgtc aaccccaaat tccacgagta caaggccaaa tgggacagcg 360
gcgagctgag ctgtgtgtct gttttccaca agtatgtgac caatacgatc tccttccaat 420
ccgcaatgtc tctaatatgt cgaccttttt agggttgttt gtcacgcat tcaattgtga 480
tatggtccgc aagatcttca actcgnctac ttatgtcaag ccctgtgtcg tcgatgctgc 540
gcataaactg cttggcaaga ctaactgggt attcttggat ggcaaggaac atgttgactt 600
ccgcaagggc ttgaacaacc ttttcacccg tcaggcgctt tcttgctatc ttctcgcgcat 660
ggaggagggt tacaatgact actacgcgcg cttctctaaa aagtctaaga acaacaacta 720

taagccaacg ccgtggatgc ccgaattccg tgacctgatg tgcgccgtct cttgccgtac 780
 cttcgtaggc cactacatth ccgatgaggc cattgataag atttccgtcg actactacaa 840
 catcacccgt gcgctggaat tggatcaactt cccgatcatc ctccctttca ccaagacctg 900
 gtacggaaaag aaggctgcgg acatggttct tgacgaattt gccaaagtgtg ctgccaaaag 960
 cagagctcgt atggctgcgg gcggagagat tagctgcatt atggacgctt ggatcaaggc 1020
 tcagttggac tctgccaaat accgggaaaa gattgccaa ggtattgagg ttgac 1075

<210> 3081
 <211> 1299
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3081
 aaatttatgg aacaagacac aaattcatga taattacatg tttccagtca gagtatcttc 60
 tgttatcagc cagaaccatg ccgacccttt ttgcgcctat cctgtgccaa tgagcaacgc 120
 catgtatata tttttttgcc attatacatc acctgcttaa ttctagcttt ctcatattca 180
 cagccgacac tgaaaatatt ctccagacaga ttctacatgg cctataaaaac atatccgctt 240
 aatattgagc agataaatac ctggtagact gaaagggcgg tcatgtcccc agggcaactc 300
 tacaccaaac tctgtctcgc ggctggacac aaggcggctc ttgaatcttg taatggtggt 360
 tcatccatag caagccaaag atcactcaga gattgcttac aatttcgaac gaacgccgtc 420
 agaatcttga acgatcttct gcaggatccc gtgactgcgg tggcagagtc tacagtgtta 480
 acccacaggt atctacactc tatcaccctg cttatgatcc gagaatttaa taacagcaaa 540
 tcttttgtta ggcgatctc gatgtaggaa ctggtacggg gatctggggc atgtatgtga 600
 ccattgccgt gcagcttggt aggctaatat attatagaga tgcgccgat gcgttcccag 660
 ccgctagagt tactgggttg gatctttcgc ccattcaacc cacatttgtc cctccgacct 720
 gctcgttcga aatagatgac gtaaccatgc catggacgta tgatacggaa caatttgact 780
 tgatctacgt ccgcgagatg ttcggctcga tacctgattg ggatgcgttt ctccggcaat 840
 gttgggcctc tctacgacca ggtggctaca tagaagttgt tgagcattcg attacgcca 900
 tatgggacgc tgataccagc ctgggaccta tctacgcatt atgggagcag acaatggcgc 960
 aggttgagca ggtatctggc aggagtttct cgatctggcg tgaaagcgca caggtgctgg 1020

agggtagtgg cttccaagat attaccaaaa gatcttataa atggcctatt agcgggtgcg 1080
 tcacctactg atttatcttc ataagccgta actaatactg gccacataga tggaacacag 1140
 atcctcgatt gcgcgagtta ggccgactaa atcaacttcg gcttctccag gcgatggaag 1200
 acccatttct tcgccaaata acctccacca tggcatggcc gtgcggtgcg agcatccatg 1260
 tgatagaaag gagacgatag accatcagag atgagcagc 1299

<210> 3082
 <211> 1330
 <212> DNA
 <213> Aspergillus nidulans
 <400> 3082

gaccttccgt cgactgtatg acacagccgg tcttggtgac gcgactgaga ttctaacggg 60
 cttccatcgg cttgcgcttt acgagatgag caaagccgca gaggttgaaa gcgaagttgt 120
 caaccagcta gtagggctgc gcaacgatct gcagaagaaa accaaagaga tcaaggcact 180
 ggccgggggat tttcgcaact cggttgacaa agaagttgat gctactcgaa agacggtccg 240
 acatttgcaa gaagccttag gcctagtcga tactgatcca tcggctacgt ctggcaaggg 300
 agatcctttc attgtccgcc tcagcgtcga gaagcaaata gagaagcaaa ttgaggagga 360
 aaactacctc catcgggtgc gtccactgtc cttggtatat ttcgttttct aatgtccata 420
 ctaggcctat ttgaaccttg agagctctgg tcgtgagctt gaatcaattg tggtaggcga 480
 aatccagaag gcttacaacg cctatgccgg tattatgaag cgggaggcag accacacgct 540
 cgacacggta gacaagcttc gcgcggggccc aatctcaatg ccgcatgac atgaatggaa 600
 cgcatttgtc gcaaatacgg acgaaatggt ggacccgcgt atccgaatcc gtgacgttga 660
 aagcattacg tatcccgga aggatcatcc ggctgctgca gaagtcaggt cagggatgct 720
 ggaacgcaag agcaagtatc tgaagagcta tgctcctgga tggttcgtct gcttaccctg 780
 tggactgctc gatgtgctaa tctgctgca ggtatgtttt gtcaccgact cacctccatg 840
 agtttaagtc ggcggatagg gttgcatggc agacaccagt aatgtcatta taccttcag 900
 aacagaaact tggatcgcat tcgcaaccgg actcgacatc gcacaagttc atgctgaaag 960
 gacggcaaac gggaacgatg cacgagggtc actcctgggt atttagagcg gagtcccaca 1020
 aaagaatgat aacctggtac gaggatattg atggaatgat catatgacag gagaggcacg 1080

atatgcgtac gtcaggcgac atgtacgtac cgtcagtggg gccagtttcc gaagcagcag 1140
 tgacggagta ttgaatgaag acgaagccga tcggacccca tactctgctg gatcagttgt 1200
 gatgcaacag gaacgtccta catctcagcg ccaaccaggt ggcatgttac accagccctg 1260
 taaaaatcga tcgtcaccaa cagcatccac tgtctccatc aagcggagag agctcggaga 1320
 gagagatctg 1330

<210> 3083
 <211> 3542
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3083

cctttcgttc atctcatgag cctgggattc caatcctcct tatatttcct aacggctttc 60
 tggttgggtg cgggtgtggc tgtctcctac tactccccctc gggttacaatc attctttttc 120
 atcctcttcg gaaaaaatct gatttgccat tgatcaatcc cggaaagggg cgcacggtga 180
 tactacgagg gtatcgctca cggaagacat ttaccacaga gctaccgaga ttagttgcag 240
 atgggctttc caagggtactc atctatcctc caaatagtag taaccgctga gcccatagat 300
 aggcgagtg ctttcggatc gcagccccag atggagtcaa catcgtactt gctccatcgt 360
 atgcacatga gatcgcgag catcctgact tgaaccccg ccgaatcgct ggagacgagt 420
 tcaattccca tattaatgga ttcgaggtgt ttgcacaact gggaaccagt gatgtcatct 480
 ctgagtctgt gaggacgaga ctgacccggc agctgagtaa gtgttcgtcc tagaatagcg 540
 tcacctcatt gcttctcgcc ttcggatgaa ccatattgat ataccaaatc tcttagcaaa 600
 attgacgccg cttctcacta gcgagactcc cttctttcta caatcccaat ggaaagatgc 660
 accaggtatc tagtccatca gtagtccgcc cgcttttgtc acacaacctc tactgatacc 720
 tcgcactaga ctgggtggag gtgagccgc atgagacggc tctgtttatt ctgtcgcggc 780
 tctcttctct cgtcttcgtt ggcgatgacc tcgggcgcaa cccggattgg atacgcatcc 840
 taacatcata caacaccgag gcttttgcag cagccgaaga gctcaacctc tggcctcaga 900
 tacttcgacc cctcatcgcc cgtctaaaac catcgtgccg ccagcttcgt cgatatatcc 960
 gtgatgcacg tgcgcttctt gtcccagtcc ttgagcaacg gcgccatgcc cagagccagg 1020
 gtgatcgaag ggagtataac gacgcgatag aatggctcga cgagacgtct cgcagtacag 1080

gtcaacccta tgatcctata ttatcccaaa tgctccttgc catcggtctt ttccatacct 1140
 ccagtgcact cctggggcag gtcctccttg acctctgcat gagaccagat tggaaagttc 1200
 tggtcagggg gcttcggaaa gaaatcatat cctcgctaca gggagagggg tgggataaga 1260
 tcgctttgaa caaccttaaa ctgatggaca gtgtgctgaa agagtctcaa cgtttaaagc 1320
 cagcctcaac tggtaagctt cctctatcac cctcttttca caagttgatc cctcctttt 1380
 ctaacctggc catgcataca gtaacgatgg ggcgatacgc ctgcgcgcgag atcacactct 1440
 cagacggaac aataatcccc aaaggctcaa cagtctttat cgccaacgtg gccatgcgag 1500
 actccaatat ctaccccgac cctgatgatt tcgttctga ccgttttacc actcggcggtg 1560
 aaaagggcga tagttccgcc tacctggttt cggcttcccc agaacatcta ggctttggcc 1620
 ttggtcgaca cgcgtgccct ggaagattct ttgccgcaa cgagctgaag attgtcttgt 1680
 cccatagtct tatgaaatac gacattaaac ttctgataa tggcgcggtt gcaccagca 1740
 agtcggggat cttcttagcc acgaatcccg atgctaggat ctgtgtccgc cgaaggaagg 1800
 aggagatagt gatctgaaat tgacctctag tcgtttcttt tattattctt agctgtcttc 1860
 tgtccgctat tgggttgttg gaaaattatt ggggtgcttc gcaggacgct tgttgacgcg 1920
 aacaaataat gattataata ataaaatacg atgctttcac catagtggag acgatcgcg 1980
 ctttttgagt actgtgtcaa atagatcttc tggtaagata cctatgcgca tcacgctatc 2040
 catgccgttg ctgatcagtt gtaggtttgc gtggacgcgg acgtggcggtg cgctcaactc 2100
 gctccatgca gcaataattg caggctgctg ccttcatgat tctggctctg aagtctggcc 2160
 cgatattgtc ctgggatggg catacaactc ttagccacgc gtcgctgtg gatcagagtc 2220
 aaaaagacgc gaacacgcaa ggagccgtcg ccgaatctag aggcattgcag cacggattct 2280
 tccatcttca gtctccaga attccaaaca ccgaggcata agtggcggtc tgtgttcgtc 2340
 catagcattt gaactccttg cggaagtatc atcccaattc aatcctgtt gcttgcctc 2400
 ctctctctag tattctttgc ctacaattac aggggaatga agcgacatct ataagtcaag 2460
 attcaagaaa gagatttatc ccgccgtgtc ggccagatta tcatagcgcg gtgaccttc 2520
 tcgataccgc gcattcattc ccgcatcta tgtacgcgac ctcaacagat aattggtgca 2580
 ccctgttatt ttgctcaaag taagccagtc gagctaggag ggtaagagga tgagtacagt 2640
 ggtcatcgcg cagtaggaat gaagtcatcc tgccaaatgc atccaacata aggttctgat 2700

gtctgcttta cctatccatc tctccaagaa ctctgtaaag taaccctaata ctgaccatct 2760
 gccggtgatt atgagcccct ttccagataa tgggctctct cataactgag tatccctcgt 2820
 tttaaagggc gcagcatccc cgtaagagat atgcttcgct tctaaccggt attggagatc 2880
 cttcagcctt atggtatcgt agaactcgta gatctcctcg ataaacctac agtcgtccgt 2940
 catcttcaga ataaagatgt actcattctc ataggctcca acaatgcttt ctgcggaagc 3000
 cttagcgagg atcatcactc tcttagcagc ctcatcgaca agggatatggc ctggctcgat 3060
 gatggaaaag tcaaactggt tgaaagtagc gatgaactgc gggaagtctg cacgggtttc 3120
 ctggttcgtt acgacatttt tgttgaagct ggggcagcac tggtggtaaa ggcatgttgg 3180
 cgtgcgaatg gagagaattt cctctatgtc aaaggaccgc aacgttgaga caaatctgga 3240
 gggtgttctg aggagctttt ctggtgtggc ggacatgggt ttgggccttg tctgtcagc 3300
 agggcaatca tgtggctctt aggacttaat gaaaacttac agcttattat cagtgcagc 3360
 gataacagag attgggggtc tagtgatgct gggccttttg taaactgata tatctgctgg 3420
 cattagtgat tacgtaggct gccggttggc gtcgtggaca attccttaca tgctatgtgc 3480
 tgagctctga tattgtcac cataaatcct gtgctacagt gcttagccct tcaactagctt 3540
 ct 3542

<210> 3084
 <211> 2101
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3084

gacatgtgta aacagtccat tgaggactgc ctccgtgtga gtaagacttc cggttttctt 60
 catctcttca ttaacaaatt gcttcatttc gaccgaaagg tcggtagcat tgtcgcggcg 120
 gaagagtata ccacgtatgg gctcgggggt agcaatgttt tgcaggaggt ggatgagcgg 180
 gaatgagaat tttccctccg atagatcttc gcaaaatcct ttcttggcag tgtactagga 240
 ctcaactatc agccagtgtc acgaattatg gtgaacggta agttacctct tcagaagcta 300
 agtttaggta atcgtctctg atctggtagt atcttccag caaggtagaa agatgcac 360
 attcgggggt cggtcgtctt tccgactcta cctcgagaag tcgaagcacc agacggaaga 420
 aaccaccggt tttgttgtcc accataacaa ggtactcttt tgttgatggc aatattgtgt 480

taaatctcca atgtaactcg aggcctgtc cgaatgagag agtttctagt tcactctgcg 540
 gtgttagctg ttacagttaa tcccaagggt atacatacct ataaatacgt ctgcgcactc 600
 attggagtgt ttcagcttct tcaccagtcg actccctttg acatagagat aggttgcgct 660
 gttgagagtc tgaggctggc caaagacagc gtgggctgct ggtcgcccgc ggcgagccg 720
 tgatccgtct tggatatcat caagcctacg ctgtcagttt gatgttgact actgaaatgg 780
 cagtcaca ttaatacggc atcgaataac atccttgaaa cttctccgat tatgtttgtt 840
 gagtcctcag gcaatgttag ccaacactgt aggcagtcga ttaagcggcc gagggctctt 900
 ttcccgggca acgaccgtat atattccac ggagcaagaa caatctgatt aatttttagca 960
 tgccagctgt gtggtcggcg tgactactaa cctccgcagc tggggctttt tcaaacggta 1020
 cgactatttc cctggctaga ggcgcactg cactgggtgcg tttatggctg gcctccgagg 1080
 agctatccga ctcagtatgg ccattagttt tcatggatcat ggccatggct ggaggggggt 1140
 agcctggcaa cctccttttc cgtcgtaac cgcgccccac tagctgagct ctatcagcgg 1200
 cagaagaaaa agatcagctt gttgatacct cgtcgtgcag actgccagta gcttaccccc 1260
 ccataagtga ggatggagt gaacatgtac cggcgagcgc catctgtttt agggcttccc 1320
 gaagagttcc agttttcgta ttcagccatc aatctggcct cggccgcaag aacctcttgc 1380
 ttcaaaacat tgccggcttc ctgttcgtca taccgtagt tgctcataag cacggccatt 1440
 ccgttatgca tcatatcaag ggtgccagcc aagaagtgt cattgaattc tttgtgaaaa 1500
 ctgtggaagt catttgtcaa cccggttatt agatcgccaa tctctgtcat gtgggagact 1560
 gaatcaagct ctttatcact gacgtaaaat ccgtttatag cgggcaccaa tctcgacagc 1620
 accctatgcg aaaccagtca ggttattcct agtgataaaa aaggaagttc agcgaaggcc 1680
 ggagaggggt taccgctgc caacagtttt gattctgtga gctttgtatg cttcccatgt 1740
 cactgtgtgc aaagctggca cgtctgtgc ttgcaggcca gtgtcaaaga aatcgaaaact 1800
 gcgcctgaaa acagcatcaa acgcatcggc tccgttcaag aggtccacaa ggctttgaat 1860
 atatagctca ttgatctcga actcgcagcg gttgcgcctt ccagcttta cttcgagag 1920
 aagggcagcg cgcaagtcta gttgaatcct ctcatgctag gggactcagg tactatcttc 1980
 caggtaggcc agggcactta cgttaactga atccagggca tctgttgcac ctagcccgac 2040
 agggacaggg tattgtgcac gtatgtggaa tgatacctac catcccaaca caagacatta 2100

<210> 3085
 <211> 754
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3085

```
tctccgaatt ggatccttgc ataaaatgaa gaggttttggg gttcggggcga ttctgatcca 60
gcttgcaaac ttcattcatc ctcgcttgat gaatcatgaa gcgcaacggg acccagcaga 120
gcggagagaa cgggagcttc actagcagaa gaaacatgcg atccttcgaa aatgagtctc 180
aacatgattg gccgctctgt tcgagctccg gggctacaga gggctgagca caacgtgggt 240
tgtaccagat cttcgccccg ataccaggga gtatcccatc agcatcgttg tatgcaaata 300
tcaactcgcg tctgccagaa gatttgggtc ctctgataga cgggaagaac cccattgcaa 360
catgtcccta gtctcccggc gaacagagga tagttggaga cacaccaagg aggtgctgcg 420
agctagcctc tcgatgcccg ttcattggagc caccggcatca tacataaact ggcggtattac 480
tttggttgca ggaaggaggt tcaccgcaga gtccggccaag aaccagaacg actacgagca 540
ataccagaaa ttgcttcgat tcgttggata agtctagttg ctattgtggg tcaagcctca 600
ctttttttgt tattaccgtg agcaaaaggg ttggataaaa agagtgaggc ggtttcgcag 660
tgatccgaca ggtacaacat gactagaaac agccctcgca acgcgttcct aatgttcac 720
tatccgtcac aggatcgaag gtgagttccc tggg 754
```

<210> 3086
 <211> 444
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3086

```
cttgtaatcc ccttcattct agaatcctcg ttctcactat acttcctcaa acttttcttc 60
ctttctccgt tctccggagc ttcaccata cggtcaccga cagcttcaaa tattcctgtt 120
attaaaattc agctccagca ccagctccag cttcgataac cggaaaatat ggcacagacc 180
aatggcgaga tggagcactc aaaaggtttg ttgccacgga gcattcctag aacactgaac 240
taattgagtt acagagtctc cagagcaaat caccaatgga aacaaccagg aggtggtcca 300
```

ggaggacgat ggcgctgacg gtatgtagga ttgatattgc tacgtgtgac tatccccgaaa 360
 attagtctga cagctgttct gcacaggcct cttccagatc tccgttaagc ttcctcatga 420
 accttacaag atccaggtta tgggt 444

<210> 3087
 <211> 2031
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3087

ccctcagact gcatgctgaa ccgtcttccct acatacagat tacgtgtata tcagtgcctt 60
 gcacaaaagc ggaaccacgt tctagagaag cataactcgct tcgttgcggt atgaagtgtc 120
 cagatcgact cggaaatgtc tactcgggtct cctagcgaat atgggaacga gctgcctttg 180
 gccatcgag acgcgacggc agatttaagg aagtcattg ttgtaatttg gcgccagctc 240
 ttgggctagc taagtctgtc ttttcgggct cggggaactg aaaaggccgc gctcaaagag 300
 gctgcttgat gatggcgatt cggaggagtg agggagaagg attcgaggag ttatcgagag 360
 gcggaggagt tccgtgctcc tggaggttta tagaccgtgg ttgaacgaag tagttgttct 420
 gttgttgtct ttttgtttgg ccctgctatc tgggtccctg ggataatgaa cgagctccgt 480
 aagtaccccg ccccgattt ggcttaggct gtctgtcatt taatgcatcg cgcgtatcga 540
 ctcgacccaa acttctccct attcaccaca cgccatgtca tataatgtgt tatcaacttg 600
 acaagctatt tgaaaaggtc cagtttacac cgcttctatt cttgtagact aggcaagtaa 660
 gtgatcacta ttatcactcc gtcatacttc acgttcccag cacaacctct tcgatgatgc 720
 gacactggaa aggtctacgg ggaaacttcg accgggacac ccaaaccggt ggaactcccg 780
 ctgagcacac cagaggagtc cgcccccaac gtattcagaa ccccttcacc gggcgctcct 840
 tgtggaagcg cagctcagct cgaccccggc ccaattcacc cagcccagct atcccagacg 900
 caggcacatt cttgataaaa aggcaaaaag gttctagtcg caagaccac gactaacggc 960
 tcgctctgcc ttgggaagac atgtgtacaa tgaaaccgat ggctagccgc ttactggggg 1020
 ttctcgctcg ctgtgcctct atgaggaatg gagaaactaa tggctgcggc gaacattgtg 1080
 tggggatcca tgaggcttat actatcactg cgggacgtgt gtgcagggtt gggttggata 1140
 cagctgggat gcgttgaaat gcggggtgga tttgtgtgtt gtggaatcta gtgcctgggg 1200

ttttgtggcg ctccctttgga tgagaacaag taccgcggct ggggtgttgcg gttttggctg 1260
 aatgaagacc aaatgataaa ctgaaaagac ctgaggagaa tgggattttt tgtttttttc 1320
 acttcttttt ttttggttgc atactgggtc gagacactac ctgctaactg gttgcaacag 1380
 aatctcttcg aacacgacgg acaccactag gcatagcttt acacaatgta cagtagcaac 1440
 tttatctgtc ctacaagtgt cattcagctc atgctttact ttatcaactc tccctcctac 1500
 ccgcaatctg tacctgaatt taacctggct tcagcctgca atacccttcg ggatcagtct 1560
 cgccatccaa gaggcctggc atcatgaagg gttatttgaa atataagaag ctgcaaactc 1620
 agcacgtagt atcgatatag atcgatccag atagtccata ttctgataaa tctcccatgg 1680
 tcccgatata atatacgcaa agcgggagcg acgtagagac gagcaaagac accagtcttg 1740
 gacagcaaaa gaccacggcc ggcttagttc aacaatgtgc cttctggtca tattctgata 1800
 ctctttctgt ccgactaggc caccctgaaa gatggattcg tcaagctcag ctgttcttga 1860
 tcagcagaaa ttctacaccg cgttccatgt ggtagaccaa ccaacgacag aatgcatccg 1920
 ccctaaatag gtatataatc ggcatgtgcg gaccactaaa accgaggaaa agctagcaat 1980
 agcttcaaaa atagtgcgct tcaataatct gcgaacgac agatctcgga g 2031

<210> 3088
 <211> 936
 <212> DNA
 <213> *Aspergillus nidulans*
 <400> 3088

aaagtgactc caatcatacc aggattcccg ctctcaggat tcccatagcc agactcaaac 60
 agaaattgcg gaacgtgtgt tgttttaccg cttcctgtgg ctccccatat cacgatggca 120
 gagttgttat ggattgcttc catgatcttt tgctcttcgc caacaacggg gagtttgaga 180
 cgggcttctt gaatatgttc gggacggctg acttgaacac tgaaggcttt ccggtacggg 240
 ttgccctttg tgacttggag ttctagaggt agtggctctt cctccacagc tctgactgga 300
 agtgccgatt tggggatgac ttgtggctca gtcgttattg gaccggatgt gggcttaaag 360
 cctacaactt cattgatttg ttgtctggcc catgatttga aggctgattg tcggggctta 420
 attcgtccat cagtgttatt ttcgtcttcg tcttcgtcat catcatcctc tttctcgtcg 480
 tcttcacctt cgtcctcatc atcatctacg tcttcgtctt cgtcttcgtc ttcacctcct 540

tcacatcttttc tgtctttcacc ttcatcacta ccactatcgc cgttgctgctc aacttcactc 600
 tctgattcag aagaatcacc ggagcccggt cctctcttctt cgcttttttgc gtcgatacca 660
 ggtccgatct cttcttccctt atcctcgtcg tcggaatcga aaccctccca tggatatctca 720
 tttaatggag ctttcgggtgc tgccttcggg gcacgctttc gctttttgag aatcggggaag 780
 ccatccggac caagttcaag aggacgtttt aaccaatac cgttcatcag ggtcgatgct 840
 ttctgctcct gctgcctttt accagtagcg tccgatttta atccagatag atcatcgtct 900
 gtttcatcgc tagaataatc aggcgcattg cgcttc 936

<210> 3089
 <211> 4806
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 3089
 ccttttgact acacttcgaa caaccttgca aaagctgcgt ttgaactaat ggctcagca 60
 aacacactgt atctgattta agatattgac ccaaggcggt atgataagaa aaaggagac 120
 atgatgcgac tgcagatgag tacaaaagggt gaggaatgtc gacaaggata taccaaataa 180
 tgttagatga acaacccttg cgacggctgc tagatactat atgagcatgg ataccaactg 240
 aaaaagaaga caaaaccag agaattttca tgctcgtgc gttgtgcttc aatataaata 300
 aacctacca aagcataaaa caggaaagac ggccacactt tactatactg tgccatacaa 360
 aacaacaagg ggtatgtaac catgactaaa tccacgcaaa gctttaagaa cagaaggcaa 420
 tccaagaaga actagtaaaa gagacatggt aaagcagact taaacagttt caatacgcgc 480
 atcctgcgag aggcccgggc gatgcccata cgccggagct gtaaccgtgg gagtcttagc 540
 ctgtcttaca acaagccttt cattactaga gttcaagtga ggggttcttt tcctgacagg 600
 gacaaggacc tgcttcttgc cttttgagac ggagacagag cgtgcgaccg acacttcgat 660
 gggtgggatt ggagcattat cgctgctcg ggatgttggt cgtgggtggg gcaacgtgga 720
 tatggttctt gctgtggcta cattcttgct tctgggcgga gactttgtcg tgcttaaagg 780
 tgagaggatt ggggaagatg ctgatgtcac tgtgggtgtg tccgagaagg tctctgttga 840
 gtgacgtgtt ttgagtccga acttgaatgg agtctcgcgt cctgatgggt aggttctttg 900
 cttttgttga gggttccgag gatgggtactg tcatgggttac cgggtgcttta ttgaaatgtg 960